

Public consultation for the design of the TERRE

(Trans European Replacement Reserves Exchange)

07th of April 2016 (Answers Analysis)

Content

1	Introduction5
	1.1 Q 1.1 Do you have specific comments regarding Chapter 1 content? (Please
	indicate sub-chapter reference when possible)5
2	Overview of different manual reserves balancing markets in TERRE
2	2.1 Q 2.1 Do you have any specific comments regarding Chapter 2 content?
	(Please indicate sub-chapter reference when possible)
3	Product & Imbalance Need10
	3.1 Q 3.1 Which format of balancing energy offers are most attractive to
	stakeholders?10
	3.2 Q 3.2 Do stakeholders agree with the definition and features of the TERRE
	cross border product?13
	3.3 Q 3.3 What are the stakeholder's views on BRP-TSO & BSP-TSO rules &
	requirements?18
	3.4 Q 3.4 Does the TERRE product allow for the participation of all types of
	balancing service providers (e.g. RES, Thermal, and DSR)? And if not, what
	changes in the features will allow greater participation in the TERRE project?22
	3.5 Q 3.5 What are your views on the application of the local features of the
	TERRE cross border product (e.g. Harmonization of price cap and floors or
	Maximum Bid Sizes for Indivisible Offers)?24
	3.6 Q 3.6 The number of bid formats (Divisible, Block, Exclusive, Linking Offers)
	which may be used by BSP represents a trade-off between the flexibility offered to
	BSP (with several types of offers) and the simplicity to offer bids and to run the
	algorithm (eg, with only one standard type of offer). What are you views on this
	trade-off? Would you advocate for keeping all types of bids offered by TSOs or to
	reduce the number of possible offers?26
	3.7 Q 3.7 Do you agree with the proposed design of the TSO imbalance need? 29
	3.8 Q 3.8 Do you agree with the possibility for inelastic and elastic imbalance
	needs? 31
	3.9 Q 3.9 Do you have specific comments regarding chapter 3 content? (Please
	indicate sub-chapter reference when possible)
4	Balancing CMO & Algorithm37
	4.1 Q 4.1 Do you have any specific comments on the Balancing CMO description? 37
	4.2 Q 4.2 What is your opinion on allowing internal and XB counter-activations? 39
	4.3 Q 4.3 Do you agree with the proposed treatment of HVDC losses?41
	4.4 Q 4.4 Do you have specific comments regarding chapter 4 content? (Please
	indicate sub-chapter reference when possible)

5	Settlement
	5.1 Q 5.1 Do you agree that the proposed settlement design is in line with the
	principles of the EB GL and the integration of balancing markets?
	5.2 Q 5.2 Do you agree with the application of cross border marginal pricing,
	settlement of the block and the proposed design for the definition of Marginal Price
	between TSOs at the XB level?46
	5.3 Q 5.3 What is your perspective regarding the alignment of the TSO-TSO
	settlement procedure and the BSP-TSO settlement procedure?
	5.4 Q 5.4 Do you have specific comments regarding chapter 5 content? (Please
	indicate sub-chapter reference when possible)50
6	Cost Benefit Analysis
•	6.1 Q 6.1 What are your views on the methodology used and assumptions made
	in the Cost Benefit Analysis?
	6.2 Q 6.2 What are your views on the results of the Cost Benefit Analysis?55
	6.3 Q 6.3 Do you think the conclusions of the Cost Benefit Analysis are valid for
	the expected market in 2018?
	6.4 Q 6.4 Do you have specific comments regarding chapter 6 content? (Please
	indicate sub-chapter reference when possible)
7	Timing 61
	7.1 Q 7.1 What are your views on the reduction of XB scheduling step for
	balancing?61
	7.2 Q 7.2 What are your views on the interactions between the TERRE process
	and the XB intra-day market?62
	7.3 Q 7.3 What are your views on the frequency of the clearing (one single
	clearing per hour)?65
	7.4 Q 7.4 Do you have specific comments regarding chapter 7 content? (Please
	indicate sub-chapter reference when possible)67
8	TERRE Platform - High Level Functional Architecture
-	8.1 Q 8.1 Do you have specific comments regarding chapter 8 content? (Please
	indicate sub-chapter reference when possible)
9	Available Transmission Capacity72
	9.1 Q 9.1 Do you agree with the proposed methodology for the calculation of
	available transmission capacity used by TERRE solution for both AC and DC
	borders? If not, what would be your proposal?72
	9.2 Q 9.2 Do you have specific comments regarding chapter 9 content? (Please
	indicate sub-chapter reference when possible)74
10	Governance75
-0	10.1 Q 10.1 Do you have specific comments regarding chapter 10 content?
	(Please indicate sub-chapter reference when possible)
	Page 3 of 96

11	Transparency	 	 	77

11.1 Q 11.1 Do you have specific comments regarding chapter 11 content?...77

12.6 Q 12.6 Do you have specific comments regarding chapter 12 content? (Please indicate sub-chapter reference when possible)......90

0 Preamble

The consultation phase is one of the most important step for TERRE project. It is why, the TSOs thank all the stakeholders who have studied and answered the consultation document and the proposed design.

This document includes all the stakeholder answers which the TSOs received. Please consider that all these feedbacks were assessed and the conclusions are included in a separate document which will be sent also to the stakeholders.

1 Introduction

1.1 Q 1.1 Do you have specific comments regarding Chapter 1 content? (Please indicate sub-chapter reference when possible)

Stake-	For us is very important that the future procurement of balancing services is fair, ob-
holder 1	jective, transparent and market-based, avoids undue barriers to little producers.
Stake-	
holder 2	No specific comments.
Stake-	
holder 3	
Stake-	We set out some high-level requirements for a successful TERRE implementation in
holder 4	our answer to Question 0 and also below.
	(1) We need continuing engagement by the TERRE Project with the local, non-TSO, stakeholders.
	(2) Because the local arrangements (such as our operation of GB imbalance settle- ment) that will interface with TERRE need to be designed and perhaps, as in GB, have local NRA approval, we need the confirmed TERRE business model of what will done by the central TERRE arrangements, and by when. And in particular how TERRE ex- pects to interface with these local arrangements.
	(3) We need the TERRE business model, once confirmed, to be subject to a strict change control process, including consultation with those responsible for the local arrangements where they would be impacted. (Those responsible for the local arrangements would also have the best idea of how they would be impacted so all changes should be at least notified to them.)
	(4) We need a testing plan that includes and encompasses the needs of those respon- sible for the local arrangements that will interface with TERRE, for example for GB, TERRE's end to end testing should involve GB's balancing settlement and imbalance settlement systems and GB BSPs and BRPs who wish to participate.
	We also note that section 1.3 states that the 'governance issues have been dealt with'. However, we have some questions on this.
	• How can issues that arise within local arrangements, but reveal wider issues that can only be resolved by the central TERRE arrangements, be raised with TERRE and

	decided upon efficiently and rapidly, so that necessary changes to the local arrange-
	ments are not delayed?
	 In particular, how can a party which is not a TERRE TSO (but is essential to TERRE's
	successful implementation in one of the TERRE Member States, such as us in GB) ob-
	tain a resolution of design decisions?
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
Stake-	We considers the time period available to stakeholders to respond to the consulta-
holder 7	tion (sub-chapter 1.4) rather short. Given the length of the consultation document,
	the number of questions to answer and the fact that the project covers multiple
	countries – from which a European group as us has to gather the necessary input on
	local market design and potential impacts -4 weeks is too short a period. Given the
	time already spent on the project, we do not belief that an additional $2 - 4$ weeks
Stake-	would result in material delays of the project.
holder 8	No comment (descriptive chapter).
Stake-	Subchapter 1.1 – paragraph 4 and Subchapter 1.4 – paragraph 3
holder 9	
	Is TERRE project planning to publish and explain in a public workshop the final pack-
	age (including the "high level design document"), after taking into account the result
	of the consultation, prior the submission to the NRAs?
	We would see this transparency milestone very useful. Moreover, the final package
	could list the regulatory changes required at national level envisaged by the TSOs in-
	volved in the project, as a draft of the final list provided by the NRAs in their Ap-
	proval. This could provide all the parties proper visibility on next regulatory steps,
	and allow identifying key issues.
Stake-	and allow identifying key issues. Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the
Stake- holder 10	Please, see answer to Q 13.1 for more comments.
	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the
	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be-
holder 10	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be-
holder 10 Stake-	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not.
holder 10 Stake- holder 11	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when
holder 10 Stake- holder 11 Stake-	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not.
holder 10 Stake- holder 11 Stake- holder 12	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not. No comment
holder 10 Stake- holder 11 Stake- holder 12 Stake-	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not. No comment What would be the implications when a NRA does not approve the common NRA po
holder 10 Stake- holder 11 Stake- holder 12	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not.
holder 10 Stake- holder 11 Stake- holder 12 Stake-	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Netherlands, are not included. We request clarification on how cross-border aspects between two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not. No comment What would be the implications when a NRA does not approve the common NRA position paper? What would be the the requirements for a future participation in TERRE (e.g. AD-
holder 10 Stake- holder 11 Stake- holder 12 Stake-	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not. No comment What would be the implications when a NRA does not approve the common NRA po sition paper?
holder 10 Stake- holder 11 Stake- holder 12 Stake- holder 13	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not. No comment What would be the implications when a NRA does not approve the common NRA po sition paper? What would be the the requirements for a future participation in TERRE (e.g. AD-
holder 10 Stake- holder 11 Stake- holder 12 Stake- holder 13	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Netherlands, are not included. We request clarification on how cross-border aspects between two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not. No comment What would be the implications when a NRA does not approve the common NRA position paper? What would be the the requirements for a future participation in TERRE (e.g. AD-MIE)?
holder 10 Stake- holder 11 Stake- holder 12 Stake- holder 13 Stake- holder 14	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not. No comment What would be the implications when a NRA does not approve the common NRA po sition paper? What would be the the requirements for a future participation in TERRE (e.g. AD- MIE)?
holder 10 Stake- holder 11 Stake- holder 12 Stake- holder 13 Stake- holder 14 Stake-	Please, see answer to Q 13.1 for more comments. The project covers only part of the EU market. In particular, countries where the TSOs have announced that they will not use RR, such as Germany and the Nether- lands, are not included. We request clarification on how cross-border aspects be- tween two countries (like for example Germany and France) will be dealt with when the TSO on one side of the border uses RR and the TSO on the other side does not. No comment What would be the implications when a NRA does not approve the common NRA po sition paper? What would be the the requirements for a future participation in TERRE (e.g. AD- MIE)? no comments

Stake-	
holder 17	We do not have specific commonts on this chapter
	We do not have specific comments on this chapter.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	No.
Stake- holder 20	The consultation document states that «The main objective of the TERRE project is to establish and operate a platform capable of gathering all the offers for Replacement Reserves from TSO's local balancing markets and to provide an optimized allocation of RR to cover the TSOs imbalance needs.»
	At the same time, in different statements in the consultation document state that there will be local products used to balance the system. For this reason, it is im- portant to understand if and when TERRE product will replace local products. On this point, it is of utmost importance that the consultation document explains how TSOs will efficiently decide between local products, TERRE product, and manual-FRR.
	In addition, considering that currently national balancing markets present notable differences (TSO engagement, balancing perimeters, balancing service provider, pos- sibility of portfolio bidding, etc), the introduction of TERRE products should be an- ticipated and accompanied by a convergence process in terms of national balancing rules in order to allow a level playing field and assure security of supply.
Stake-	
holder 21	Not Answered
Stake-	
holder 22	Not Answered

2 Overview of different manual reserves balancing markets in TERRE

2.1 Q 2.1 Do you have any specific comments regarding Chapter 2 content? (Please indicate sub-chapter reference when possible)

Stake- holder 1	We are agree that solar and wind production can participate to this market but it is important that a non discriminatory traetment is garanteed for every participant indipendent of the fuel and powerplant type
Stake- holder 2	No specific comments.
Stake- holder 3	Not Answered
Stake- holder 4	We do not understand the sentence on page 14 that 'harmonisation of local settle- ment rules will be tackled under the framework of the RR CoBA implementation'. We expect that TERRE will form the RR CoBA , so how do the TERRE TSOs see this harmonisation being achieved? We are, not the GB TSO, is responsible for administering the rules and operation of balancing settlement in GB so we would expect to be involved in the discussions on

	harmonisation whenever these ecour. Failure to involve us at the earliest enner
	harmonisation whenever these occur. Failure to involve us at the earliest oppor-
	tunity could mean delays in implementing harmonisation later, which could cause
Chalka	problems for the TERRE project as a whole.
Stake-	Not Answered
holder 5	
Stake-	It wasn't fully clear. More explanation around the table would have helped.
holder 6	
Stake- holder 7	The rather short note following the second table of chapter 2 (top of page 14 of the consultation document) creates confusion. Given that the TERRE project will be a – or even the sole – RR Coordinated Balancing Area (CoBA), postponing the harmonization of local settlement rules for the RR CoBA framework makes little sense. As also reiterated in our answer to questions in chapters 3, 5 and 12, an alignment of local rules is imperative to make the TERRE project a platform where BSPs can compete on an equal basis.
	We realizes that such an alignment requires the involvement of National Regulatory Authorities (NRAs) and as such strongly encourages NRAs to tackle this subject well before the final implementation of the TERRE project to ensure competition of BSPs in different countries on a fair basis and without distortions to the integrated RR mar- ket. However, TSOs also have a role in this by a timely, pro-active proposal of such a set of harmonized local rules. We strongly encourages TSOs to start this work, in con- sultation with NRAs to ensure the necessary alignment is achieved by the time the TERRE project goes live.
Stake-	The note below Table 2-2 on the intraday cross-border gate closure times (GCTs) at
holder 8	the various borders concerned in the project mentions that the harmonization of the local settlement rules will be tackled under the framework of the RR COBA implementation. The TERRE project being the sole BPP focusing on the implementation of RR in Europe, it seems inappropriate that the question of harmonisation of settlement rules is set aside, to be dealt with in the future. TSOs should at the very least provide as of now an assessment as to the viability of the project without harmonised settlement rules, as well as an assessment of the efficiency losses linked to non-harmonised settlement rules.
Stake- holder 9	Table 2-1 –More detailed and comprehensive information (use of these reserves, handling of bid formats, further technical/regulatory evolutions at national level linked to TERRE or with different nature) would allow better identifying pros and cons of different design options. Table 2-2 – It seems that some data refer to XB intraday allocation and other refers to both national-XB (example: REE and FR-SP border).
Stake-	The note below Table 2-2 on the intraday cross-border gate closure times (GCTs) at
holder 10	the various borders concerned in the project mentions that the harmonization of the local settlement rules will be tackled under the framework of the RR COBA implementation. The TERRE project being the sole BPP focusing on the implementation of RR in Europe, it seems inappropriate that the question of harmonisation of settlement rules is set aside, to be dealt with in the future. Efficiency – in terms of costs and operational execution – is the primary objective of the reform of any balancing arrangements. While we are convinced that pooling RR resources at a regional level should improve efficiency, we also consider that harmonisation is not a goal in itself and that a careful consideration of related costs, risks and benefits is required. TSOs should therefore at the very least provide as of now an assessment as to the viability of the project without harmonised settlement rules, as well as an assessment of the impact of harmonised and non-harmonised settlement rules on the efficiency of the

	,
	common RR procurement.
	Overall, we see Chapter 2 as very 'light' and merely a short description of the status quo. Ideally, it should go further, for example qualitatively exploring the differences between different markets, and explain which criteria are used for the activation of RR (and mFRR) and how overlap with market parties' activities on the intraday market is avoided. Also, in the context of a possible harmonisation of GCTs and shortening of ISPs, it would be useful to get the understanding of the involved TSOs about the role they expect RR (and mFRR) to play considering the need to avoid overlaps and balkanisation of the intraday market.
	Chapter 2 should also explain how procurement and especially activation of RR and mFRR affects imbalance prices in the various countries.
	Finally, Chapter 2 does not clearly outline the impact on existing processes at all the TERRE borders, for example how the FBM at the French-Swiss border will be impacted.
Stake- holder 11	We are pleased to see that there should not be an interaction between TERRE activa- tion and ID trading. However, the consideration of the TERRE outer borders is incom- plete. E.g. for Switzerland the borders CH-DE and CH-AT are considered, whereas for FR-DE, FR-BE this is not the case. A complete consideration of the TERRE borders would be appreciated. We stress for zero interference between TERRE and XB ID trading.
Stake-	
holder 12	
Stake-	No further comments
holder 13	
Stake- holder 14	For us some key questions are not clear. For example do BSPs need a kind of a qualifi- cation to participate offers over the TSO - TSO model in other countries. How coun- tries with bidding obligations for qualified assets handle assets from other countries in case of a shortage of offers?
Stake- holder 15	Table 2-2: We are pleased to see that interactions between TERRE activation and in- traday trading are excluded. However, the consideration of the TERRE outer borders is incomplete. E.g. for Switzerland the borders CH-DE and CH-AT are considered, whereas for FR-DE, FR-BE this not the case. A complete consideration of the TERRE borders would be appreciated. We stress for zero interference between TERRE and cross-border intraday trading.
Stake-	
holder 16 Stake-	Not Answered
Stake- holder 17	This chapter gives an excellent view on the challenge represented by the integration of balancing markets, showing the diversity of national market designs. Therefore, particular attention has to be paid to the harmonisation of national market features during the first implementation phase of the project. In particular, TSOs should care- fully assess which parameters are to be harmonised and at which pace, taking into account the final Target Model.
	As regards Table 2.2 on Intraday and Cross-border gate closure, we suggest to add a line "FR national" showing the gate closure times applicable in the French national market as it is presented in the case of Swiss and British markets.
Stake- holder 18	Not Answered
L	L

Stake- holder 19	Overall, we see Chapter 2 as very 'light' and merely a brief, factual description of the status quo. Ideally, it should go further, for example qualitatively exploring the different approaches and products in various markets. We would also welcome an explanation of how procurement and activation of RR (and mFRR) affects imbalance
	prices in the various countries.
Stake- holder 20	The tables correctly represent Replacement Reserve, manually activated Frequency Restoration Reserve products and gate closures in Spain and in Italy.
	At the same time, we would like to point out that in Spain Replacement Reserves re- fers to the Reserve that is activated before the current hour, this would be both: ter- tiary reserve scheduled before P48, and deviation management.
	Finally, it must be noted Italian ISPs are differentiated for source; in particular, de- mand and generation not enabled to supply dispatching services – i.e. belonging to market participants that are not BSPs - has an ISP of 1 hour.
Stake-	
holder 21	Not Answered
Stake-	
holder 22	Not Answered

3 Product & Imbalance Need

3.1 **Q 3.1** Which format of balancing energy offers are most attractive to stakeholders?

Stake-	
holder 1	Hourly product and 15 minutes product
Stake-	Though we wouldn't oppose to the use of any of the depicted formats, or even more,
holder 2	due to the complexity of the algorithm, the limited time to match this market and the necessity of following the results, we are concerned about the functioning of clearing process and the only formats we see necessary are divisible offers and block offers.
Stake-	
holder 3	N/A
Stake-	
holder 4	
Stake-	
holder 5	
Stake-	This depends on the particular format that BSPs are used to in their own markets.
holder 6	TERRE offers will have to interact and complement the local market arrangements. BSPs are likely need to use a product which allows them to offer something as similar as possible to that offered in the local market to ensure that offers are kept con- sistent with each other.
	From an operational perspective a reasonable number of block offer options is re- quired and the possibility to handle ramps should be given. However, the complexity of the mechanism would raise with the increasing number of offered block options. This reduces the plausibility and the transparency of market results and thus may create obstacles for new market entrants.

Stake-	We considers that all offer formats except the multi-part offer have merits in order to
holder 7	make attractive offers into the TERRE platform. If the use of the formats does not im-
	pose any timing constraints for the clearing algorithm, we would propose to imple-
	ment all offer formats, except the multi-part offers.
Stake-	We consider that the need for all these type of offers has to do with different rules of
holder 8	Reserve Markets in each country, namely portfolio bidding and unit bidding
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	We feel some level of harmonisation should take place in the meantime, prior to the
	entry into operation of Project Terre
	From the sourced turne off offers
	From the several type off offers:
	Divisible Offere Black Offere Evelusive Offere Multi next Offere (divisible on black)
	Divisible Offers, Block Offers, Exclusive Offers, Multi-part Offers (divisible or block)
	and Linking Offers (divisible or block)]
	We think they are all needed except if harmonised bidding rules were to be imple-
	mented
	In our particular case, with bidding rules by physical unit, Divisible Offers and Multi-
	part offers are essential.
Stake-	
holder 9	Please see answer to Q 3.6
Stake-	The format of the balancing offers is a critical element of the TERRE project. As de-
holder 10	tailed in our answer to question 3.8, there is a trade-off between simplicity and flexi-
	bility. Our preference is to focus on implementing the formats that are common to all
	markets (e.g. block offers) that enable existing approaches towards balancing to be
	preserved as much as possible.
	While we see some merits to more complex formats, e.g. linked or multipart offers,
	as shown in Table 2.1, these are not common to all markets and, in the case of exclu-
	sive offers, are not currently used at all. Such formats could add a significant degree
	of complexity to the project TERRE algorithm and for market participants, and there-
	fore could be envisaged at a later stage of implementation of project TERRE. For the
	time being, TSOs should focus on ensuring that bid formats do not prevent any tech-
	nology from taking part in the balancing market, providing a non-discriminatory,
	level-playing field for all market participants.
Stake-	 We welcome the large possibility of offers, which allows us to manage our con-
holder 11	straints
	 Divisible offers have always to guarantee a minimum quantity to reproduce the
	technical constrains of our assets.
	• Despite the wide variety of products a fast and transparent price based allocation
	has to be guaranteed.
Stake-	······································
holder 12	
Stake-	At the moment the Swiss RR market accepts only block offers, as they better suit the
holder 13	needs of the local BSPs. Therefore it is only reasonable for the easiest integration of
noidel 13	
	the Swiss BSPs in TERRE project that block offers remain in the list of the accepted
	balancing energy offers.
	Any additional format of balancing energy offers that would meet the needs of other

	international BSPs, and would therefore increase the balancing market liquidity, is
<u>.</u>	more than welcome.
Stake-	
holder 14	Divisible and Block orders
Stake-	• We welcome the large possibility of offers, which allows us to manage our con-
holder 15	strains and represent fixed and start-up costs. The definition of the exclusive and
	multi-part offers must consider the time dimension more precisely.
	• Divisible offers have always to guarantee a minimum quantity to reproduce the technical constrains of our assets.
	• Swiss RR market accepts only block offers, as they best suit the needs of the local
	BSPs. Therefore it is only reasonable for the easiest integration of the Swiss BSPs in
	TERRE project that block offers remain in the list of the accepted balancing energy of-
	fers.
Stake-	
holder 16	
Stake-	All the bid formats described in the consultation document should be considered
holder 17	necessary for modelling BSP's constraints (see Q3.6).
Stake-	
holder 18	<u> </u>
Stake-	In our view the format of the balancing offers is a critical element of the TERRE initia-
holder 19	tive. Our preference is for implementation the simplest solution that enable existing
	approaches towards balancing to be preserved as much as possible. This should be in
	the form of discrete block offers for delivery over a defined period, with market par-
	ticipant enable to select their preferred quantity and duration.
	While we see some merits in linked or multipart offers (as shown in Table 2.1), these
	are not common to all markets and, in the case of exclusive offers, are not currently
	used at all. These more complex projects will add a significant degree of complexity
	to the project TERRE algorithm and for market participants. Therefore, such complex
	offers could be envisaged for stage 2 implementation of project TERRE.
Stake-	When considering what the most attractive offers are for market participant, it is im-
holder 20	portant to consider that all TSOs should allow portfolio bidding in every region. In
	fact, nowadays, in some Countries, market participants are obliged to bid for each
	power plant. Only allowing portfolio bidding, it is possible to assure a level-playing
	field across the borders.
	When defining the product type, it is important that bids are able to replicate cost
	structures. In this moment, European balancing markets are operated under different
	rules; in some countries, operators must offer their capacity for each power plant, in
	other markets operators can place portfolio bids. Compared to unit bids, portfolio
	bidding allows greater freedom, hence BSP can autonomously change the production
	mix used to deliver replacement reserve.
	In principle, we not against allowing all energy offers. If portfolio bidding is not allow
	in every bidding zone and only divisible offers are available, market participant that
	can bid their portfolio are favoured. For this reason, market operators should be able
	to place different block bids in order to reflect their cost structure and they allow a
	level playing field in the case of no rules harmonization on portfolio bidding. For the

3.2 Q 3.2 Do stakeholders agree with the definition and features of the TERRE cross border product?

Stake-	Partially:
holder 1	
	-activation, ramping period, full activiation time and minimum delivary period in
	these form in our opinion not usable
Stake-	Yes, in a general way, and provided the product is compatible with local RR markets.
holder 2	In this way, if the local RR market resolution is 60 min, then offers for 60 min should be accepted to trade in TERRE in the same conditions as 15 min offers. Additionally, concepts as ramping and full activation time should not be used in the offers them-
	selves, they would be just take into account when bidding by BSPs.
Stake-	
holder 3	N/A
Stake-	
holder 4	
Stake- holder 5	Taking under consideration the different definition of the balancing products of the TSO, we consider that the resolution of the product should be 1 hour, in contrast with the 15 mins proposed. We consider that an hourly resolution is sufficient for the cross-border exchange of RR. The are other mechanisms to balance the system steadily provided by the Frequency Restoration Reserves (FRR).
	We also maintain a simplification of the format of balancing energy offers from the one defined in the proposal. An excessively complex format could result in less trans- parency of the market.
	It has to be defined whether accepted offers are firm, or may be withdrawn in case of a system imbalance.
Stake-	Some divergences in the proposed design may exist:
holder 6	

[Items (1) "Preparation Period" and (2) "Ramping Period" are irrelevant and incon-
	sistent with the framework proposed. Only item (3) "Full Activation Time" should be
	relevant and should be included in the features of the product before the activation
	features. The same product definition should be used for all BSPs offering the TERRE
	product as the one exchanged by TSOs between themselves (where only the "Full Ac-
	tivation Time" will be considered).
	Item (8) "Validity Period" seems unnecessarily restrictive: Given the proposed hourly
	frequency of the clearing, the whole bidding process may be operationally intensive
	for market participants. Extending the validity period beyond 60 minutes may help
	mitigate this problem and incentivise participation of BSPs in the process. From our
	perspective longer delivery periods of e.g. 4-6 hours should be allowed.
	Item (10) "Maximum Offer Size" should not be restricted. We cannot see a benefit
	from this restriction.
	Item (12) "Price" foresees the possibility of local caps/floors. Similarly to the previous
	point, we see a danger in non-harmonised price rules practically excluding bids from
	use in certain markets. TSOs and NRAs should work on removing price caps/floors to
	ensure that reserves exchanges are most optimal and economically efficient at a re-
	gional level.
	It is furthermore of concern that the TERRE product focusses on delivery of a block of
	energy and does not recognise ramping. This is partly not consistent with national ar-
	rangements, e.g. in GB. It may be possible for this to be synthesised to some extent
	through linked offers but this would only be possible for plant with fast ramp up times and for short duration offers as all would have to take place within the maxi-
	mum block of one hour. And certainly no new caps and floors should be introduced.
	Therefore the whole concept of "elastic needs" is strongly questioned.
Stake-	Wz has the following comments regarding the product definition:
holder 7	
	• We strongly favors the application of harmonized pricing rules and avoid using di-
	verging local rules, including local floors and caps. As already stated in response to
	question 2.1, we encourages NRAs to align the rules before the implementation of
	the TERRE project and the TSOs to make the necessary proposals for harmonizing the
	pricing rules.
	• Only the Full Activation Time should be relevant. The mentioning of the preparation
	and ramping period in table 3-1 should only be illustrative and indeed have a free
	range between 0 and 30 minutes. However, in line with previous point, we would
	strongly argue that this product definition is also applicable for the local TSO-BSP
	rules without a fixed ramping period or standard ramping rate. As TSOs will exchange
	energy blocks on the TERRE platform between themselves, the same product defini-
	tion should be used between BSP and TSO.
	• The validity period should not be limited to 60 minutes. Market parties should be
	• The validity period should not be limited to 60 minutes. Market parties should be able to make offers that remain valid for several auctions, on the condition that the
	offer can be adjusted up to the GCT of the period that it covers. It allows for a more
	efficient bidding of 'recurring' offers while maintaining the ability to offer them on
	the (cross-border) Intraday and cancel or adjust them subsequently on the TERRE
	platform.

ŗ	
	• The impact of the application of the local rules regarding the maximum offer size of indivisible offers is unclear. Will a local application of a low maximum offer size constrain the activation of bids exceeding this value by the TSO setting this low value? This would in effect create a sort of unshared bids and could be a tool used to shield a market from cross-border bids. This value or values should be transparent to all market parties active on the TERRE platform, as it may impact the selection of their bids.
Stake- holder 8	The general framework for the definition and feature of the TERRE product broadly follows that of other standard products as defined by BPP #7 on standard products. A few divergences appear nonetheless:
	• Items (1) Preparation Period and (2) Ramping Period are irrelevant and inconsistent with the framework proposed in BPP #7. Only item (3) Full Activation Time should be relevant and should be included in the features of the product before the activation features, in line with BPP #7. The same product definition should be used for all BSPs offering the TERRE product as the one exchanged by TSOs between themselves (where only the Full Activation Time will be considered).
	• Item (10) Maximum Offer Size should be better defined, as the impact of the appli- cation of the local rules for indivisible offers is unclear. We see the potential for local applications of a low maximum offer size constraining the activation of bids exceed- ing this value by certain TSOs. This would in effect create unshared bids and could be a tool used to shield isolate a market from cross-border exchanges.
	• Item (12) Price foresees the possibility of local caps/floors. Similarly to the previous point, we see a danger in non-harmonised price rules practically excluding bids from use in certain markets. TSOs and NRAs should work on removing price caps/floors to ensure that reserves exchanges are most optimal and economically efficient at a regional level.
Stake-	
holder 9	Yes
Stake- holder 10	The general framework for the definition and feature of the TERRE product broadly follows that of other standard products as defined by BPP #7 on standard products. A few divergences appear nonetheless:
	• Items (1) Preparation Period and (2) Ramping Period are irrelevant and inconsistent with the framework proposed in BPP #7. Only item (3) Full Activation Time should be relevant and should be included in the features of the product before the activation features, in line with BPP #7. The same product definition should be used for all BSPs offering the TERRE product as the one exchanged by TSOs between themselves (where only the Full Activation Time will be considered).
	• Item (8) Validity Period seems unnecessarily restrictive: given the proposed hourly frequency of the clearing, the whole bidding process may be operationally intensive for market participants. Extending the validity period beyond 60 minutes may help mitigate this problem and incentivise participation of BSPs in the process, especially for smaller market participants.
	• Item (10) Maximum Offer Size should be better defined, as the impact of the appli- cation of the local rules for indivisible offers is unclear. We see the potential for local applications of a low maximum offer size constraining the activation of bids exceed- ing this value by certain TSOs. This would in effect create unshared bids and could be

r	· · · · · · · · · · · · · · · · · · ·
	a tool used to shield isolate a market from cross-border exchanges.
	• Item (12) Price foresees the possibility of local caps/floors. Similarly to the previous point, we see a danger in non-harmonised price rules practically excluding bids from use in certain markets. TSOs and NRAs should work on removing price caps/floors to ensure that reserves exchanges are most optimal and economically efficient at a regional level. And certainly no new caps and floors should be introduced. Therefore the whole concept of "elastic needs" is strongly questioned (see also our answer to question 3.8).
Stake- holder 11	 In our opinion the definition of the activation time is ambiguous. The way it is described in the document suggests a possible activation all 15 min. In table 3-1 the full activation time is described as 30 min. This means that all activation have a lead time of 30 min, thus an activation for hh:45 would be sent at hh:15. For operational simplification all activation within the next hour must be sent in one single activation. Table 3-1 has to adapted (3) Full activation time : minimum 30min. The maximum offer size must be compatible with the technical constrains within
	our portfolio.
	• The resolution of 0.1 MW for divisible volume is exaggerated. 1 MW granularity is largely sufficient.
	• Why has Max delivery period to be 60 min? We would appreciate the possibility to offer block orders connecting more than 4 quarter hours as a to be started machine might have to run longer than 1 hour.
	• Depending on the IT solution offering products every 60 minutes could be much to complicated. Why can the validity period not be longer than 60 min?
	 We also support TERRE not interfering/competing with the established intraday markets and working as an additional market closer to delivery.
Stake- holder 12	
Stake- holder 13	The definition and features of the TERRE cross border product are such that facilitate the participation of BSPs with a wide range of portfolios in terms of fuel and flexibility.
	We also support TERRE not interfering/competing with the established intraday mar- kets and working as an additional market closer to delivery.
	In our opinion the definition of the activation time is ambiguous. The way it is de- scribed in the document suggests a possible activation all 15 min. In table 3-1 the full activation time is described as 30 min. This means that all activation have a lead time of 30 min, thus an activation for hh:45 would be sent at hh:15. For operational simpli- fication all activations within the next hour must be communicated at the same time. Table 3-1 has to be adapted "(3) Full activation time: minimum 30min".
	The time resolution of 15 minutes will enable BSPs with more flexible assets to make the most of their flexibility once the barrier of the 1 hour scheduling step constraint is removed.
Stake-	2.1.1 Divisible Offere receivation of divisible Values about the using 42404
holder 14	3.1.1 Divisible Offers resolution of divisible Volume should be min. 1MW

holder 15 scribe activa time of simpl tion. 7 • Wh to off might • (8) Y quent marke gate t • (10) nation • The ity is b • Ider discri Stake- holder 16 Stake- holder 17 Ke filter Stake- holder 17	bur opinion the definition of the activation time is ambiguous. The way it is de- ed in the document suggests a possible activation all 15 min. In table 3-1 the full ation time is described as 30 min. This means that all activations have a lead of 30 min, thus an activation for hh:45 would be sent at hh:15. For operational ification all activations within the next hour must be sent in one single activa- Table 3-1 has to be adapted (3) Full activation time : minimum 30min. y has (6) Max delivery period to be 60 min? We would appreciate the possibility fer block orders connecting more than 4 quarter hours as a started machine t have to run longer than 1 hour. Validity Period seems unnecessarily restrictive: given the proposed hourly fre- cy of the clearing, the whole bidding process may be operationally intensive for et participants. Extending the validity period beyond 60 minutes may help miti- this problem and incentivize participation of BSPs in the process.
to off might • (8) V quent marka gate t • (10) nation • The ity is n • Ider discri Stake- holder 16 Stake- We have holder 17	Fer block orders connecting more than 4 quarter hours as a started machine t have to run longer than 1 hour. Validity Period seems unnecessarily restrictive: given the proposed hourly fre- cy of the clearing, the whole bidding process may be operationally intensive for et participants. Extending the validity period beyond 60 minutes may help miti-
quene marke gate t • (10) nation • The ity is l • Ider discri Stake- holder 16 Stake- We have holder 17 cross- ment (see 0	cy of the clearing, the whole bidding process may be operationally intensive for et participants. Extending the validity period beyond 60 minutes may help miti-
nation • The ity is b • Iden discri Stake- holder 16 Stake- We have holder 17 (see Comparison of the second sec	
ity is • Ider discri Stake- holder 16 Stake- We have holder 17 (see C) Maximum offer size must be defined in more details, in order to avoid discrimi- n while applying different local rules.
discri Stake- holder 16 Stake- We hand holder 17 (see C	e resolution of 0.1 MW for (11) Divisible Volume is exaggerated. 1 MW granular- largely sufficient.
holder 16 Stake- We h holder 17 cross- ment (see 0	ntical to point (10) non-harmonized (12) Price rules such as caps and floors can minate certain BSPs depending on the local rules applied.
Stake- We have been seen when the seen of	
holder 17 cross- ment (see 0	ave no major objections to the definition and the main features of the TERRE
}	-border product. However, we wish to highlight that local TSO-BSP arrange- s will be crucial to determine the BSPs' capability to offer the TERRE product
Stake- We w	vould be interested to know if there is scope to extending the maximum delivery
	d beyond 60 minutes in future.
Stake- We b holder 19 notec early	roadly agree with the proposed definition of the TERRE product. However, as d in our response to Q 3.1, our preference is to develop a simple product for implementation with more complex products following later on. Moreover, the uct should ensure standardisation. Therefore, we make the following remarks:
tion le offer creati	10 Maximum Offer Size should be better defined, as the impact of the applica- ocal rules (for indivisible offers) could lead to fragmentation. A low maximum size set at the local level would constrain bids exceeding this value, effectively ing unshared bids and could be used as a tool to isolate a market from cross- er exchanges.
moni	12 Price foresees possibility of local caps / floors. We see a danger of non-har- sed rules excluding bids from use in certain markets. Therefore TSOs and NRAs Id work on removing caps / floors, and no new ones should be introduced.
Stake- We and the state with the sta	gree with the current definition: P-Sch-30-15. In addition, on the issue of un- ed bids, it is important to ensure a high level of information to participants, fore unshared bids should be shown in the common merit order but should be ed as unavailable to other TSOs.
Stake-	
holder 21	

Stake-	
holder 22	

3.3 Q 3.3 What are the stakeholder's views on BRP-TSO & BSP-TSO rules & requirements?

Stake-	
holder 1	On this stage not enough detailed to be commented
Stake- holder 2	As a general principle, TSO's should not change BSP offers, i.e., grouping or splitting the offers each participant in the market has sent to local markets, looking as the cross border and local RR market as a unique market, when possible.
Stake-	
holder 3	N/A
Stake- holder 4	Section 3.1.2 of the consultation document states that a number of elements will be defined at a later stage of the project including, but not limited to:
	Calculation of imbalance and imbalance price
	• Settlement
	Non-compliance
	 Settlement or not of ramping
	Firstly, we do not understand how the calculation of imbalance and imbalance price for BRPs will be undertaken under the TERRE Project governance. The overall formu- lation for imbalance and imbalance price is set out under the Guideline on Electricity Balancing (GL EB) and we believe that the local arrangements, e.g. under the local GB arrangements, would adjust imbalance calculations and prices as needed to conform to the eventual GL EB requirements. So we see no need for TERRE involvement in setting imbalances and imbalance prices for BRPs.
	In fact, we argue strongly against having any TERRE involvement in setting imbal- ances and imbalance prices for BRPs given that it could cause multiple successive sys- tem changes in our local arrangements (to conform with TERRE and then, later, to conform with GL EB, if different).
	It is also noted that a harmonisation of imbalances and imbalance prices is required by Article 24 of the draft GL EB (July 2015 version) across all TSOs, so this is geograph- ically wider than the TERRE CoBA and will require engagement with non-TERRE TSOs. Also Article 64 of the GL EB requires that imbalance price calculations consider Fre- quency Restoration Reserve (FRR) as well as RR costs. So for the first reason a TERRE RR CoBA setting of imbalance would not be appropriate; and for both these reasons a TERRE RR CoBA setting of imbalance price would not be appropriate.
	There is one exception to this, in that we believe that TERRE should specify whether the ramps associated with TERRE Products should be considered as imbalance or not. See also our answer to consultation Question 3.5.
	Secondly, whatever items are within the scope of TERRE, we do not agree that the significant details of settlement, non-compliance and ramps can be defined later in

r	
	the project, given that we also need to build systems to interface with TERRE either directly or via our TSO, National Grid. These details are needed as soon as possible, given the challenging deadline (including, for us, our local NRA's approval of changes to our systems and processes to interface with TERRE).
	If later changes are made during the implementation of TERRE to any aspect, this could also cause us substantial timing issues with both the need to adjust a live sys- tems build and the need to seek additional local NRA approval before we can amend the arrangements again.
Stake-	We consider it is important to establish common criteria for these rules and require-
holder 5	ments, that apply to all TSO and provide a transparent framework. No addition prequalification should be required to BSP that are already providing balancing ser- vices in their country.
Stake-	These are crucial aspects of the project which impact on the local balancing arrange-
holder 6	ments. In GB this issue is being covered through the Issue 60 group and a number of interdependencies have been identified. The project's impact on the continuing design of these local arrangements should not be underestimated and as we mention in answers to other questions, should be factored into things such as the cost benefit analysis and other implementation timescales.
Stake-	In line with our comments on the application of pricing rules in response to questions
holder 7	2.1 and 3.2, we consider that it is imperative to ensure a fair competition between BSPs on the TERRE platform to avoid any market distortions. We therefore support the TSOs intention to harmonize to the fullest extent possible the BSP-TSO rules and requirements, as well as the BRP-TSO elements. Both NRAs and stakeholders should be kept informed if and when obstacles to such harmonization are encountered.
Stake- holder 8	In line with our comments in response to question 3.2, we support the TSOs' objec- tive to harmonise BSP-TSO and BRP-TSO rules and requirements to the fullest extent possible before the entry into force of TERRE. NRAs should actively support this har- monisation process, and market participants should be consulted on the orientations considered by the project.
Stake-	Does the text "the following items will be defined in a later stage of the project"
holder 9	mean that a further consultation to the stakeholders is envisaged in the frame of the TERRE pilot project?
	Regarding some terms and conditions listed in this subchapter, please see further an- swers.
Stake-	In line with our comments in response to questions 2.1 and 3.2, we support the TSOs'
holder 10	objective to harmonise BSP-TSO and BRP-TSO rules and requirements to the fullest extent possible before the entry into force of TERRE, based on an appropriate cost-
	benefit analysis. NRAs should actively support this harmonisation process, and mar- ket participants should be consulted on the orientations considered by the project.
Stake-	• The BSP-TSO and BRP-TSO rules and requirements issue is something that should
holder 11	have been discussed within the current phase of TERRE project in greater detail, as it affects the fair, transparent and non-discriminatory participation of the BSPs in TERRE.
	• We have serious concerns regarding how to overcome differences between the TERRE participants. We ask for equitable market condition for all BSPs, especially concerning calculation of the imbalance price, prequalification, compliance and ramping issues.

r	
	• Regarding the BSP-TSO rules, it is our belief that they should reflect the TSO-TSO rules on a one to one basis. The TERRE related products that would be accepted by the local TSO for submission to TERRE (BSP-TSO), should meet the same conditions as the products described in TERRE (TSO-TSO) (e.g. local markets should accept portfolio offers for TERRE, even if this is not allowed in the local market). The same should apply for the settlement of service (e.g. both pay as cleared), the treatment of non-compliance, the settlement of ramping and the prequalification of new service providers.
Stake- holder 12	
Stake-	The BSP-TSO and BRP-TSO rules and requirements issue is something that should
holder 13	have been discussed within the current phase of TERRE project in greater detail, as it affects the fair, transparent and non-discriminatory participation of the BSPs in TERRE.
	Regarding the BSP-TSO rules, it is our belief that they should reflect the TSO-TSO rules on an one to one basis. The TERRE related products that would be accepted by the local TSO for submission to TERRE (BSP-TSO), should meet the same conditions as the products described in TERRE (TSO-TSO) (e.g. local markets should accept portfolio offers for TERRE, even if this is not allowed in the local market). The same should apply for the settlement of service (e.g. both pay as cleared), the treatment of non-compliance, the settlement of ramping and the prequalification of new service providers.
	Regarding the BRP-TSO rules, it is also important that a harmonization in the method- ology of the imbalance and imbalance price calculation is achieved.
Stake- holder 14	is the lead time of 30mins flexbile ? right now we can modify the lead time and acti- vation period for rte balancing market. What is the shortest validity and activation period ? if the shortest validity period is 15min how can this product be nominated at the border switzerland-france ? does this offer has to be linked in time to get to a 30mins activation time ?
Stake-	• We support the objective to harmonize the BSP-TSO and BRP-TSO rules as it affects
holder 15	the fair, transparent and non-discriminatory participation of the BSPs in TERRE.
	• We have serious concerns regarding how to overcome differences between the TERRE participants. We ask for equitable market condition for all BSPs, especially concerning calculation of the imbalance price, prequalification, compliance and ramping issues.
Stake- holder 16	
Stake- holder 17	The consultation document only focuses on the description of the high-level charac- teristics of the product exchanged by TSOs. BSPs require a detailed view of local BSP- TSO arrangements in order to assess their capability to implement the tools and pro- cesses necessary to offer TERRE products.
	For instance, the introduction of "explicit offers" besides "implicit offers" is a major change for French BSPs which would require at least 18 months to be implemented starting from the definition of all applicable rules and requirements (to be confirmed by the detailed technical specifications). Therefore, we urge TSOs to define these re- quirements, especially all the characteristics of the expected physical delivery of an activated bid. Notably, the following issues should be rapidly specified:

r	
	- Local settlement rules, (in particular the inclusion or not of ramps in local settle- ment);
	- Compliance rules and definition of possible penalties;
	- Rules on firmness of bids and treatment of outages;
	 Expected physical delivery, especially whether capacity vs energy delivery is re- quired;
	- Ramping period specifications. For example, figures 3-1 and 5-1 show ramp up and ramp down periods outside the delivery period, whereas RTE proposed to French stakeholders the delivery of +/- 5 minutes ramps overlapping the imbalance settlement period. This is, for instance, a significant issue that needs to be clarified.
	Furthermore, we deem essential to precise the specific bidding requirements im- posed on BSPs, e.g. in terms of bid format specifications etc. In order to be able to clearly identify which blocks can be offered in TERRE, we wish further technical de- tails (including the ones specified at TSO level) concerning the following bidding op- tions given by the current design proposal:
	- The expression of "delivery time period" in order to offer a 15' block on a restricted timeslot (e.g. 12:30-12:45);
	- The modality for offering a 60' indivisible block, due to delivery period constraints;
	- The modality for presenting "top-offers", sub-offers of "exclusive offers" and "multi- part" offers.
	- Information requirements on the location of the activated power plants (e.g. bid- ding zone, network node);
	- Possible conversion of offers by TSOs (besides the case of Central Dispatch Systems) beyond the possibility to mark certain bids as unavailable ("unshared"/"restricted") on the Common Merit Order (CMO). In our view, the implementation of this option (i.e. the conversion of products by TSOs) should be limited as far as possible.
Stake- holder 18	
	Civen the nature of Project TERPE and the form of erece hander trades that are said
Stake- holder 19	Given the nature of Project TERRE and the form of cross border trades that are envis-
noider 19	aged, the TSOs will play a key role in the development of this form of trade. We would hope that over time the role of the TSOs would reduce and market partici-
	pants would be able to participate directly in the market. We remain concerned
	about TSOs specifying the cross border requirement and with the potential for the
	TSOs to exclude certain bids for domestic reasons. In line with our response to 5.3,
	we welcome the objective to align the BRP-TSO and TSO-TSO rules and requirements
	to the full extent possible provided it does lead to overall detrimental impacts at the
	local level (in other words, any changes in the spirit of alignment should be subject to
Stake-	a cost-benefit analysis). Market participants should always be consulted in this case. As it is said before, currently national balancing markets are different in terms of bal-
holder 20	ancing philosophy (central dispatch and self-balancing) and in terms of rules and re-
	quirements for BSPs and BRPs. For this reason, NRAs and TSOs should first evaluate if
L	

	and how it is possible to assure security of supply and a level playing field between market participants. In the case the analysis shows positive results, it will be possible to continue with the integration and harmonization of procurement of Replacement Reserve.
Stake-	
holder 21	
Stake-	
holder 22	

3.4 **Q 3.4** Does the TERRE product allow for the participation of all types of balancing service providers (e.g. RES, Thermal, and DSR)? And if not, what changes in the features will allow greater participation in the TERRE project?

Stake-	
holder 1	It will depend on still open details
Stake-	
holder 2	Yes, and RES, Thermal or DSR will have to fulfill the same technical requirements.
Stake-	Yes. The TERRE product is flexible for supporting the participation of all types of bal-
holder 3	ancing service providers
Stake-	
holder 4	
Stake-	
holder 5	
Stake-	Every capacity fulfilling the requirements by TSOs should be eligible to participate in
holder 6	the TERRE projects. Hence proper products and the possibility to use block bids en-
	sure additionally that all kind of technologies can take part at the tender for balanc-
	ing services. However, any privileged market access should be avoided to create a
	level playing field.
Stake-	For the participation of thermal units, the Full Activation Time of 30 minutes will
holder 7	mean in practice that some will not be able to participate to the TERRE platform un-
	less they are already running due to activation during a previous timeframe.
	We welcome the possibility for RES to participate to the TERRE project. Participation
	to balancing markets through technology-neutral products is an important step in the full market integration of RES. The actual participation of RES is however also de-
	pendent on other constraints. The regulatory framework (e.g. support mechanisms),
	technology (e.g. metering and steering), operational (e.g. level of automation in the
	communication protocols between different parties in order to deal with exogenous
	meteorological variables) and contract constraints may all impact whether and how
	RES can bid into balancing markets. So while the opening of balancing markets
	through technology-neutral products is welcome, it may require time and additional
	steps before RES can fully participate to such markets.
Stake-	All market participants, whether operating generation assets, managing demand or
holder 8	storing energy, should be enabled to bid in a technology-neutral balancing market on
	a level-playing field.
	In the case of RES-E producers, participation to balancing markets is an essential step
	towards full market integration, an important factor in the valorisation of RES-E in-
	flows, and a welcome contribution to market liquidity.

	We see demand side participation as much more difficult due to the size of the TERR Product, and also due to the lack of legislation in some countries.
Stake- holder 9	Yes
Stake- holder 10	We are a strong supporter of the integration of all capacity providers into the energy market. All market participants, whether operating generation assets, managing de- mand or storing energy, should be enabled to bid in a technology-neutral balancing market on a level-playing field.
	In the case of RES-E producers, participation to balancing markets is an essential step towards full market integration, an important factor in the valorisation of RES-E in- flows, and a welcome contribution to market liquidity. Bidding of RR products by RES E producers may, however, be limited by other constraints, such as the regulatory framework (e.g. support mechanisms), technology (e.g. metering and steering), or operational and contract constraints. All these elements may affect whether and how RES can bid into balancing markets. We call on policy makers in the concerned Mem- ber States and beyond to ensure that no regulatory obstacle can limit the participa- tion of RES-E produces to the RR market in particular, and to all other markets in gen eral.
Stake-	• Activation duration limited to one hour excludes the participation of certain assets
holder 11	with a minimum running or reduction time. We recommend an activation duration limit of min. two hours.
Stake-	
holder 12	
Stake-	We believe that the current product definition of TERRE allows the active participa-
holder 13	tion of all types of BSPs.
Stake-	
holder 14	'
Stake-	• Activation duration limited to one hour, excludes the participation of thermal and
holder 15	nuclear assets. We need a minimum of two hours. This can be solved through linking two cross border products or through extending the max delivery period.
Stake-	
holder 16	
Stake- holder 17	A precise answer to this question would require additional information on the local implementation of TERRE. However, we can easily consider that some generation and demand units could be excluded from TERRE if the products they can provide an not compatible with the features of the TERRE product. For example, some DSR procucts need earlier activation notice (2h) or longer activation duration, and therefore may not be offered in TERRE.
	Concerning our generation, we envisage to make balancing bids from thermal units compliant with the proposed timing and format for TERRE product (i.e. full activation time of 30', delivery period less than or equal to 1 hour). Other available products, such as some offers from nuclear power plants, are too long (in terms of activation time or delivery period) to be offered. The volumes actually offered and the activate units will also depend on the flexibility of bidding formats and on local arrangements
Stake-	······································
holder 18	
Stake-	In our view the project TERRE process should be technology neutral and all types of
holder 19	service providers should be able to participate.
Stake-	In general terms, the participation of RES and Demand Response is facilitated
holder 20	through a shorter FAT and delivery periods. In addition, RES and DSR are generally

	connected on distribution networks. Activation of these resources can only happen if aggregation is possible and there are is communication framework between TSOs and local DSO. In this moment, TERRE project does not analysis in details these two elements (but in some Countries RES can already participate to the balancing market. For example, In Spain a Royal Decree published in February 2016 allows participation of RES in Ancillary Services). At the same time, TERRE does not prevent the participa- tion of RES, or DR.
	We consider TERRE product will allow the participation of all types of balancing ser- vice providers. Balancing product should not be restricted for the participation of any specific technology, products should be technologically neutral, and the partici- pation of Balancing Service Providers should be voluntary. The process should be: 1) A product is defined, 2) BSPs are qualified, 3) Qualified BSPs can participate in TERRE.
Stake-	
holder 21	
Stake-	
holder 22	

3.5 Q 3.5 What are your views on the application of the local features of the TERRE cross border product (e.g. Harmonization of price cap and floors or Maximum Bid Sizes for Indivisible Offers)?

Stake-	For the market participant the goal of the project has to be an harmonization of the
holder 1	products features
Stake-	They are desirable, but not causing any delay in the implementation of the project. In
holder 2	this way, NRAs should support the harmonization process.
Stake-	The maximum bids size is necessary for indivisible offers. Without this limit, large vol-
holder 3	ume of indivisible offers if selected will potentially introduce operational issues with the ramping up/down of generation at the boundary of delivery time period.
	From the market point of view, the enforcement of price cap and floor shall be imple- mented with great caution. Otherwise, the price cap and floor would introduce unre- alistic price signal for balance service providers. From the algorithm point of view, the price cap and floor can be supported as an option.
Stake- holder 4	In our roles as operator and administrator of GB balancing settlement and imbalance settlement, we need to know for certain which aspects of TERRE will be harmonised, and how they are to be harmonised, as soon as possible. This is in order to evaluate which aspects will require us to amend our systems and local rules in compliance with the TERRE requirements and to implement those changes in good time. It will not work for us if these are decided too near in time to the entry into force of TERRE, as we won't have sufficient time left to change our systems or obtain local NRA ap- proval to do so.
	In this respect the treatment of ramps should be clarified as soon as possible.
	The imbalance arrangements in European Member States are not yet harmonised
	and it will take time to implement harmonisation after the requirements are known
	and have been approved by the NRAs. Because of this, we suggest that consideration is given to treating ramps as zero-priced contracts and not treated as imbalances by
	the TERRE Member States. Treating ramps as imbalances will cause BSPs to include

	their local imbalance costs in their TERRE Bid Prices. Because currently the imbalance prices are based on different formulations in different TERRE Member States, this will pollute the Common Merit Order. Treating ramps as zero-priced contracts means that TERRE TSOs still only pay for the TERRE Products and not the ramps and also
	avoids polluting the Common Merit Order List, while also ensuring that local BRPs are not disadvantaged in local imbalance arrangements for ramping actions essential for
	the delivery of the accepted TERRE product.
Stake-	
holder 5	
Stake-	We are concerned that TERRE could result in significant design changes to local mar-
holder 6	kets. We believe that if changes are required to meet the Electricity Balancing Guide-
	lines then it would not be wise to make changes to accommodate TERRE, only poten-
	tially to back these out to meet the guideline requirements. This seems to be a partic- ular risk associated with the progression of TERRE whilst the final requirements of
	the guideline are yet to be agreed.
Stake-	In line with our answers to previous questions, we are not in favor of operating the
holder 7	TERRE platform while divergent, local rules are still in place. Such divergent rules
	have direct impacts on the bidding behavior and possibilities of market players in the
	different countries, and as a result create unfair competition between them. Such
	distortions of cross-border markets should be avoided.
	We therefore reiterates its encouragement to align such rules before the implemen-
	tation of the TERRE project, with both NRAs and TSOs cooperating efficiently and
Chal	pro-actively to achieve this.
Stake- holder 8	In line with our comments in response to questions 3.2 and 3.3, we encourage TSOs to harmonise the features of the TERRE product to the fullest extent possible before
noiuer o	the entry into force of TERRE. We see a danger in non-harmonised rules and features
	practically excluding bids from use in certain markets, thereby weakening the opti-
	mality and economic efficiency of reserves exchanges at a regional level. NRAs should
	actively support this harmonisation process, and market participants should be con-
	sulted on the orientations considered by the project.
Stake-	
holder 9	Please see answers to Q 12.X. regarding harmonization of price cap and floors.
Stake-	In line with our comments in response to questions 3.2 and 3.3, we encourage TSOs
holder 10	to harmonise the features of the TERRE product to the fullest extent possible before
	the entry into force of TERRE, based on an appropriate cost-benefit analysis. We see a danger in non-harmonised rules and features practically excluding bids from use in
	certain markets, thereby weakening the optimality and economic efficiency of re-
	serves exchanges at a regional level. NRAs should actively support this harmonisation
	process, and market participants should be consulted on the orientations considered
	by the project. Harmonisation should be done at the level of best practices where
	possible, so that it does not undermine efficiency at some borders by having to lower
	standards for the sake of harmonisation.
Stake-	• Ideally caps, floors and maximum bid sizes should be determined by the market.
holder 11	Thus we support only operational necessary constrains.
	• No restriction on bid sizes. This would only reduce the offers.
Stake-	
holder 12	

r	
Stake-	We believe that TERRE workgroup and the involved TSOs and NRAs should work to-
holder 13	wards harmonized features of the TERRE cross border product, as it is the only solu-
	tion that guarantees non-discrimination to BSPs and is in line with the GL EB. The ap-
	plication of local features should be avoided to the extent that this is possible.
Stake-	We agree, that for a proper function of a joint market the markets have to be harmo-
holder 14	nized in all parameters
Stake-	• Caps, floors and maximum bid sizes should not be introduced. Thus we support
holder 15	only operational necessary constrains. Any constrain must consider the technical pos-
	sibility of our portfolio. If an introduction of price caps and floors is necessary for op-
	erational reasons, they should be in line with the EEX directives. We strongly believe
	that TERRE workgroup and the involved TSOs and NRAs should work towards harmo-
	nized features of the TERRE cross border product, as it is the only solution that guar-
	antees non-discrimination to BSPs and is in line with the GL EB.
Stake-	
holder 16	
Stake-	As already mentioned, the local arrangements applied in TERRE will have a crucial im-
holder 17	pact on the ability of BSPs to participate in the project and, therefore, on the effi-
	ciency of the mechanism itself. As regards harmonisation of local features, please re-
	fer to answers to the questions in section 12.
Stake-	
holder 18	
Stake-	As noted in our response to Q3.2, we believe that local features should be minimised
holder 19	and in any event should be phased out over time to ensure a level playing field for all
	market participants.
Stake-	In our view, the integration of RR and mFRR should be based on a level playing field
holder 20	between market participants. For this reason, the harmonisation/removal of cap and
	floor prices is fundamental and it should be introduced before the go ahead of TERRE
	project. In addition, if TERRE project should choose for the introduction of maximum
	bid size, this limit should not be too stringent and it should be harmonized between
	bidding zones.
Stake-	
holder 21	
Stake-	
holder 22	Please refer to Q12
L	۰ــــــــــــــــــــــــــــــــــــ

3.6 Q 3.6 The number of bid formats (Divisible, Block, Exclusive, Linking Offers) which may be used by BSP represents a trade-off between the flexibility offered to BSP (with several types of offers) and the simplicity to offer bids and to run the algorithm (eg, with only one standard type of offer). What are you views on this trade-off? Would you advocate for keeping all types of bids offered by TSOs or to reduce the number of possible offers?

Stake-	
holder 1	please as simple as possible to reduce market entry barriers
Stake-	
holder 2	See answer to Q3.1.
Stake-	The suggested bid formats provide great flexibility to BSP. Based on our experiences
holder 3	with available optimization tools and modelling techniques, the scheduling algorithm
	is capable of handling various bid formats proposed for the TERRE product.

Stake	
Stake- holder 4	
Stake-	
holder 5	
Stake-	Flexibility for BSPs would appear to be important given that the TERRE product may
holder 6	not fully reflect the products traded in local balancing markets. However, as stated in
nonaci o	answer to question 3.1 a reasonable number of possible bid formats would be prefer-
	able so that ramps can be represented and no technology would hamper to take
	part.
Stake-	It is difficult for stakeholders to gauge the precise impact of the availability of the dif-
holder 7	ferent bid formats on the timing requirements of the algorithm. The availability of
	such possibilities matters little if market parties have insufficient time to make fully
	use of them. Given that the available time is already quite limited between the clos-
	ing of the cross-border Intraday and the GCT of the TERRE project, it would not make
	sense to further reduce it in order to allow all such formats to be available. If, on the
	other hand, the reduction of offer formats would also reduce the TERRE clearing time
	- currently at 10 minutes between H-45min and H-35min – this should be considered
	in dialogue with stakeholders during the implementation phase, when more concrete
	information on the impact to the clearing time is available.
	Concretely, the use of multi-part offers seems superfluous, given that it could indeed
	be modeled as an exclusive offer. In such a case, it would be most instructive to have
	a better understanding whether the use of multi-part offers would have an impact on
	the time to run the algorithm.
Stake-	
holder 8	See answer to question 3.1 before
Stake-	According to table 2-1, exclusive offers (3.1.3.3) are not used nowadays. Paragraph
holder 9	3.1.3.3 explains pros and cons of introducing this format (greater flexibility for portfo-
	lio bidding, but the number of sub-offers should be limited). We suggest postponing
	the introduction of this format in a later stage of the project, once the go-live gives all
	the parties more knowledge.
	Regarding linking offers in time (3.1.3.5), some of the features e could be simplified
	(different prices) in the first go-live, as it is noted that "number of links (sub-offers)
	for one Linking Offer should be also limited to a maximum number"
	More sophisticated offers could be introduced in next evolutions of TERRE, once the
	performance of the pilot project in the first go-live is assessed in a transparent man-
	ner and more complex orders demonstrate significant gains.
Stake-	As noted in our response to question 3.1, we believe it is prudent to first focus on the
holder 10	implementation of bid formats that are most common to all markets.
	In general the future bid formats should ensure that no technology is hampered to
	take part in the balancing market, providing a non-discriminatory, level-playing field for all market participants. We attract TSOs' attention to the fact that introducing
	multiple and complex bid formats could be contradictory with the concept of a CMO
	and the idea of marginal pricing. While in a day-ahead auction the use of block bids
	may not have a significant effect on the clearing process, in a balancing market with a
	fraction of the traded volume and the number of bids, the complex clearing process
	can heavily affect the clarity price signal, which would contradict the original inten-
	tion of establishment of the CMO.

Stake-	• The simplicity to offer bids and the basic need to reflect the different constraints of
holder 11	plants have to precede. Better not keep all types of bids than reduce the number of
	possible offers. The actual product definition in French Mécanisme d'Ajustement
	seems quite robust.
Stake-	
holder 12	
Stake-	The costs (e.g. computational time, IT costs) of running a complex algorithm with all
holder 13	types of offers are not clarified in the consultation document. According to the infor-
	mation provided by our local TSO (Swissgrid) the algorithm tests conducted with bids
	of every available bid format showed that the time needed for the TERRE clearing
	phase did not, in any case, exceed 10 minutes. Therefore the number of bid formats accepted is not expected to influence significantly the performance of the algorithm.
	Consequently we are in favour of maintaining all types of bids offered by the TSOs, as
	this would simplify the participation of BSPs from different countries and with differ-
	ent assets in the TERRE project.
Stake-	
holder 14	3.1.3 Too many Offer possibilities. Exclusive offers and multipart offers not needed.
Stake-	• The costs (e.g. computational time, IT costs) of running a complex algorithm with all
holder 15	types of offers is not elucidated in the consultation document, thus a clear response
	to this trade-off is impossible. However, in case of trade-off the consideration of
	technical parameters are a mandatory. In case of trade-off it is better to reduce the
	types of bids than reduce the number of possible offers. The actual product definition
	in French Mécanisme d'Ajustement seems quite robust.
Stake-	
holder 16	We would like to keep the multi-part bids, as used by our TSO.
Stake-	We agre with the need to strike the right balance between the flexibility offered to
holder 17	BSPs and the simplicity of the products exchanged. Nevertheless, we wish to high-
	light that the current design of the TERRE product has already been oversimplified
	with the exclusion of the energy associated with ramps, whereas the amount of en-
	ergy delivered during ramping periods is far from negligible. We still believ that this
	additional energy delivery has to be taken into account by the TSOs in the Common
	Merit Order (CMO), in order to avoid additional balancing activations, including coun-
	ter-activations.
	As far as we are concerned, TERRE bids will mainly come from thermal generation
	units (hydro plants are more suitable to be offered in the mFRR process) which are
	characterised by delivery period corresponding to the full window of one hour and by
	significant ramping periods.
	According to our preliminary analyses the following constraints need to be integrated
	in the bid format:
	- For a single 15' step, exclusivity between upward and downward offers;
	- For a single 15' step, exclusivity between different setpoints;
	- Linking of consecutive 15' steps, to express a minimum delivery period (e.g. when a
	new power setpoint has been set and this cannot be changed for a minimum time
	period). As the initial commercial schedule may vary over the TERRE delivery period,
	the linked blocks (sub-offers) need to comprise different volumes;
	- Conditional links ("if bid 1 is activated then bid 2 is available"), without which our

	,
	possibility to offer schedule shifting will be restricted. For instance, a scheduled set-
	point set at 12:30 may be either anticipated (e.g. at 12:00 or 12:15) or postponed
	(e.g. at 12:45 or 13:00);
	- A number of links up to 20 which is in our view necessary to maximise the bidding
	capability of each single unit concerned.
	, , ,
	Therefore, all the described bid formats for balancing energy offers to be processed
	in the CMO should be considered as necessary for modelling these constraints. Any
	reduction of the number of possible offers, including the lack of "conditional offers"
	and the envisaged limitation of the number of links (sub-offers) per offer could result
	i - · · · · · · ·
	in a reduction of BSP's bidding capability. This limitation should be avoided, as it
	could have a detrimental effect on the efficiency of the CMOL, and therefore on the
<u>.</u>	expected benefits of the project.
Stake-	
holder 18	
Stake-	As noted in our response to Q3.1, we believe that it is prudent to first focus on the
holder 19	implementation of bid formats that are most common to all markets, thereby ena-
	bling existing approaches towards balancing to be preserved as much as possible.
	Therefore, for the initial implementation of Project TERRE, the standard product
	should be based on discrete block offers for delivery over a defined period. More
	complex formats e.g. linked or multipart offers could be envisaged at a later stage in
	Project TERRE. We are concerned that the additional complexity of differing bid for-
	mats may impact on the operation of the algorithm and may result in inefficiencies in
	outcomes.
Stake-	Although increasing the number of bid formats could increase the complexity of the
holder 20	algorithm, this increase should not be unbearable. In fact, in different bidding zones
	TSOs (between them Italy and Spain) already operate complex algorithms in order to
	balance the system near time of delivery. At the same time, if with divisible offers
	and block offers is feasible to replicate all other types of offers, ie that using divisible
	offers and block offers we can get the same results as with the rest of offers for short
	-
	periods of time (in this case it is for a maximum of for 1-hour), for simplicity we could
<u>.</u>	also consider to keep just Divisible and Block Offers.
Stake-	
holder 21	
Stake-	We believe that, especially in its first phases, the pilot project should focus on sim-
holder 22	plicity by allowing only one kind of bid format with an easy structure, such as Divisi-
	ble Offers . This would also help in dealing with the correct harmonization of the dif-
	ferent national markets where, as thoroughly reported in chapter 1, different bid for-
	mats are allowed.

3.7 Q 3.7 Do you agree with the proposed design of the TSO imbalance need?

Stake- holder 1	only for the inelastic volume. The elastic volume case suggest a potential speculation role from TSO and this is our opinion against a well functioning market
Stake- holder 2	No. A TSO should not be allowed to price their needs, not even in the case of elastic needs. The TERRE should rely on a common European merit order, so the price comes from the offers themselves to provide the balancing energy need for security reasons.

c. 1	
Stake-	
holder 3	N/A
Stake-	
holder 4	
Stake-	
holder 5	
Stake-	We cannot follow the proposed restriction to the maximum size of the imbalance
holder 6	need. There seems to be no benefit in restricting ex-ante the imbalance need of a
	TSO to a volume of bids equal to the number it puts on the CMOL.
Stake-	The 'Maximum Size' characteristic of the imbalance need is unclear. It seems to indi-
holder 7	cate a form of reciprocity, restricting the imbalance need of the TSO by the volume of
	shared bids that it is able to provide to the Common Merit Order List (CMOL). While
	it may be logical that a TSO has some sort of 'priority access' to a volume of bids
	equal to the number he puts on the CMOL, we see no benefit in restricting ex ante
	the imbalance need to this volume. It would encourage a TSO to seek the remaining
	volume of imbalance need through local, Specific Products instead of sourcing it from
	the common platform.
Stake-	The Maximum Size characteristic of the imbalance need is unclear. It seems to indi-
holder 8	cate a form of reciprocity, restricting the imbalance need of the TSO to the volume of
	shared bids that it is able to provide to the Common Merit Order List (CMOL).
Stake-	Firstly, we support the go-live of the project without elastic imbalance needs. Only
holder 9	bids from BSPs should be considered. Moreover, we see an overlap between the use
	of elastic imbalance needs and the Unshared Offers (subchapter 3.1.4.1).
	Secondly, a proposal of minimum standard features and rules applicable to all TSOs
	for the calculation of their imbalance needs should be subject of consultation to
	stakeholders and approval by NRAs. We think that this key issue is not "standardized"
	in the proposal (chapter 3.2).
	Finally, the mean of a marial on this matter. Discussion and the O 11.1
<u>.</u>	Finally, transparency is crucial on this matter. Please see answer to Q 11.1.
Stake-	The Maximum Size characteristic of the imbalance need is unclear. It seems to indi-
holder 10	cate a form of reciprocity, restricting the imbalance need of the TSO to the volume of
	shared bids that it is able to provide to the Common Merit Order List (CMOL). We see
	no benefit in restricting ex-ante the imbalance need of a TSO to a volume of bids
	equal to the number it puts on the CMOL. It would incite a TSO to seek the remaining
	volume of imbalance need through local, Specific Products instead of sourcing it
Stake-	 through the common platform. In general we agree with the description of the TSO imbalance need.
holder 11	• In general we agree with the description of the TSO imbalance need.
	• A point that needs to be further clarified is the maximum size of the imbalance
	need. According to Article 3.2.1 it should not be higher than the shared offers made
	by the BSPs in this direction (to our understanding within the particular bidding
	zone). Exceptions to this rule apply under conditions that are not described in the
	document. It is also not clear if this limit applies for the sum of elastic and inelastic
	imbalance needs.
Stake-	
holder 12	
Stake-	The structure of the TSO imbalance need given in table 3-2 must be in line with the
holder 13	cross-border product definition of table 3-1. The following points have to be aligned:
	a cost soluce product definition of table 5 1. The following points have to be digited.
	o Minimum size: Table 3-1 1MW vs Table 3-2 0MW
	1

	o Divisible volume: Resolution in Table 3-1 0.1MW vs Table 3-2 1MW
	Another point that needs to be further clarified is the maximum size of the imbalance need. According to Article 3.2.1 it should not be higher than the shared offers made by the BSPs in this direction (to our understanding within the particular bidding zone). Exceptions to this rule apply under conditions that are not described in the document. It is also not clear if this limit applies for the sum of elastic and inelastic imbalance needs.
Stake-	
holder 14	
Stake-	• To our understanding the structure of the TSO imbalance need given in table 3-2
holder 15	must be in line with the cross-border product definition of table 3-1.
Stake-	
holder 16	
Stake-	We understand that a large autonomy is left to TSOs to set their imbalance need. This
holder 17	is justified by the differences in the way electricity systems are managed from one country to another. In our view, full transparency on the methodologies used by TSOs to define their imbalance needs is required and this is particularly important when it comes to the notion of elastic need (see Q 3.8). However, even in case of inelastic de- mand, market players should be informed on the methodologies applied by TSOs in each country.
Stake- holder 18	
Stake- holder 19	Whilst we recognise that Project TERRE is based on establishing an initial project need, we remain concerned about the role of the TSOs in setting this need. We be- lieve that we should move towards greater harmonisation of the balancing markets with the role of the TSOs diminishing overtime. Such an approach must be consistent with the definition of the common merit order.
Stake-	We disagree with the possibility for TSOs to define elastic needs.
holder 20	
	In addition, we would like to have additional information on how imbalance needs are divided between local products and TERRE product.
Stake- holder 21	
Stake- holder 22	

3.8 Q 3.8 Do you agree with the possibility for inelastic and elastic imbalance needs?

Stake- holder 1	see answer 3.7
Stake-	The main concern is about the role of TSOs in a common balancing market. TSOs
holder 2	should provide and share means (energy offers) to solve imbalances, but in the de- scription of elastic imbalance needs TSOs seem to participate in the market, even pricing their needs.
	In fact, we make a clear statement opposing the elastic demand option. If TSOs have other commercial resources to solve the imbalance, they are contradictory with the unbundling principle. If TSOs have regulated assets, it should be clearly defined how

	to manage them in the market: setting a maximum price could be fine, but not bid- ding or pricing the needs.
Stake- holder 3	From vendor's point of view, the algorithm should provide the flexibility of modelling both inelastic and elastic imbalance needs.
Stake- holder 4	
Stake- holder 5	
Stake- holder 6	It's not fully clear why an efficient solution would have a price cap/floor, as provided by the posting of elastic needs. TSOs become an active player the market: They can even set the settlement price by pricing their bids and offers, and putting them on the CMOL together with bids and offers from market parties. In this way, TSOs are ac- tually marketing the energy from their imbalances, rather than procuring balancing energy to deal with their imbalances. Besides, the non-harmonised methodologies for pricing the various TSOs' imbalance needs would further add to the confusion and lack of transparency as to the extent to which TSOs will effectively be active on the market.
	Overall, this proposal of elastic imbalance needs is a serious reconsideration of the separation of roles between TSOs and BSPs, which is at odds with the spirit of the Third Energy Package and its unbundling principle. TSOs should use inelastic imbalance needs – as is the case for all other balancing processes – and integrate the uncertainty on the required balancing energy into the volume of the imbalance need instead of the price. This will ensure a more transparent and less complex procurement process.
Stake- holder 7	We have serious reservations about the ability of TSOs to price their imbalance needs on the TERRE CMOL. By pricing their bids and offers, and putting them on the CMOL together with bids and offers from market parties, TSOs are directly active on the market instead, potentially even setting the settlement price and imposing de-facto price caps on the market. TSOs are thus actually marketing the energy from their im- balances, instead of procuring balancing energy to deal with their imbalances.
	We are convinced that TSOs should use an inelastic imbalance need – as is the case for all other balancing processes – and include the uncertainty regarding the required balancing energy into the volume of the imbalance need instead of the price. This will make the procurement process more transparent and the optimization potentially less complex.
	An additional issue with the proposed methodology for the elastic imbalance need is its un-harmonized approach. Each TSO is allowed its own methodology for defining one or more imbalance bids without providing any transparency on how such bid(s) is(are) derived. Given the current – and for the foreseeable future still remaining – disparity on how TSOs balance their system and the use of Specific Products, arbitrat- ing between RR and other balancing processes creates distortions not only in the TERRE platform but also in the balancing markets of the other balancing processes. At the very least – and despite the fact that we remain convinced that the inelastic imbalance need is the correct way to define the TSO balancing needs – such method- ology should be harmonized, transparent and result in the definition of a single vol- ume of imbalance per TSO with associated price. This would be a first step in ensur- ing that the elastic imbalance need is solely based on a comparison between the ex- pected prices of mFRR bids and the prices on the TERRE CMOL.

Stake-	We have serious reservations about the appropriateness of allowing TSOs to price
holder 8	their imbalance needs on the TERRE CMOL. By pricing their bids and offers, and put-
	ting them on the CMOL together with bids and offers from market parties, TSOs are
	directly active on the market, potentially even setting the settlement price. In this
	way, TSOs are actually marketing the energy from their imbalances, rather than pro-
	curing balancing energy to deal with their imbalances. Besides, the non-harmonised
	methodologies for pricing the various TSOs' imbalance needs would further add to
	the confusion and lack on transparency as to the extent to which TSOs will effectively be active on the market.
	Overall, this proposal of elastic imbalance needs is a serious reconsideration of the
	separation of roles between TSOs and BSPs, which is at odds with the spirit of the
	Third Energy Package and its unbundling principle. TSOs should use inelastic imbal-
	ance needs – as is the case for all other balancing processes – and integrate the un-
	certainty on the required balancing energy into the volume of the imbalance need in-
	stead of the price. This will ensure a more transparent and less complex procurement
	process.
Stake-	
holder 9 Stake-	Please see answer to Q 3.7. We have serious reservations about the appropriateness of allowing TSOs to price
holder 10	their imbalance needs on the TERRE CMOL. By pricing their bids and offers, and put-
	ting them on the CMOL together with bids and offers from market parties, TSOs are
	directly active on the market, potentially even setting the settlement price. In this
	way, TSOs are actually marketing the energy from their imbalances, rather than pro-
	curing balancing energy to deal with their imbalances. Besides, the non-harmonised
	methodologies for pricing the various TSOs' imbalance needs would further add to
	the confusion and lack on transparency as to the extent to which TSOs will effectively
	be active on the market.
	Overall, this proposal of elastic imbalance needs is a serious reconsideration of the
	separation of roles between TSOs and BSPs, which is at odds with the spirit of the
	Third Energy Package and its unbundling principle. TSOs should use inelastic imbal-
	ance needs – as is the case for all other balancing processes – and integrate the un-
	certainty on the required balancing energy into the volume of the imbalance need in-
	stead of the price. This will ensure a more transparent and less complex procurement
a. 1	process.
Stake- holder 11	• Yes
Stake-	• Yes
holder 12	
Stake-	The proposal of inelastic and elastic imbalance needs that the TSOs can submit is a
holder 13	flexible tool that can help TSOs meet their balancing need in an economic optimal
	way (by taking into consideration alternative means to TERRE), while dealing with the
	imbalance volume uncertainties.
Stake-	how does the different imbalance needs (inelastic/elastic) the pricing of bsp ? is the
holder 14	inelastic need comparable to the existing "mode dégradé" ? how will the existing
	mode dégradée be handled in the future ?
	What happens if the TSO does not activate enough energy due to a conservative elas-
	tic imbalance need?
Stake-	• The proposal of inelastic and elastic imbalance needs that the TSOs can submit is a
holder 15	flexible tool that can help TSOs meet their balancing need in an economic optimal

	way (by taking into consideration alternative means to TERRE), while dealing with the imbalance volume uncertainties.
	• One could argue that in extreme cases certain elastic offers could be activated in order to compensate the counter activation of certain products outside TERRE with known prices (e.g. aFRR, mFRR). This kind of activation would be driven not by the TSOs balancing needs but by financial profit for the TSO. Therefore it is of importance that such activations are excluded from the calculation of the imbalance prices (BRP-TSO).
Stake-	
holder 16	
Stake- holder 17	We agree with the possibility for TSOs to express either elastic or inelastic imbalance need. Nevertheless, an adequate level of transparency on the methods used by all TSOs for the determination of their imbalance needs is of utmost importance to ena- ble BSPs to anticipate these needs and, therefore, to guarantee the availability of products able to satisfy them. This is a key issue, as the methodology used to treat elasticity of TSOs' imbalance needs will undoubtedly have an effect not only on the RR process, but also on the forthcoming aFRR and mFRR processes.
Stake-	
holder 18	
Stake- holder 19	We do not agree with the use of elastic imbalance needs. Since the auction will take place at fixed periods in time, the need should be firm at this time. This will allow for efficient clearing and an understandable auction process.
Stake- holder 20	Firstly, we disagree with the possibility for TSOs to define elastic needs; TSOs cannot be market players, hence they should be price takers and not price setters.
	Secondly, the current text does not describe in details the methodology, the algo- rithm, and the criteria. The current drafting seems to give complete freedom to TSOs to set elastic prices, hence there is no transparency on price formation.
	Thirdly, page 22 states that «Each TSO will define an applicable methodology for de- termining the inelastic and/or elastic volume, and they may use all or none of the previous parameters». The definition of methodologies cannot be left to the discre- tion of "each" TSO.
	Finally, as it is said before, if cap and floor prices are introduced, it is important that are harmonised between bidding zones in order to allow a level playing field between market participants.
Stake- holder 21	
Stake-	We underline that the concept of "elastic need" (i.e. a price/volume couplet) should
holder 22	be carefully evaluated, in order to avoid potential market distortions. By pricing their bids and offers, and putting them on the CMOL together with bids and offers from market parties, TSOs could end up being directly active on the market, potentially even setting the settlement price (therefore influencing the social welfare value).
	In our view the TSO should be allowed to put in the CMO only their inelastic needs, and the social welfare should be determined only by the price competition between the market participants which should be the only entitled to receive/pay the com- mon settlement price.

3.9 Q 3.9 Do you have specific comments regarding chapter 3 content? (Please indicate sub-chapter reference when possible)

Stake-	
holder 1	
Stake-	
holder 2	No more comments.
Stake-	We understand and support the high level design of the TERRE production set out in
holder 3	chapter 3. We look forward to comment on the detailed design once it becomes
	available based on our experiences.
Stake-	A number of key decisions (the settlement arrangements for accepted TERRE prod-
holder 4	ucts including the timing of billing and payments; the treatment of ramps; Gate Clo-
i	sure time; and non-compliance arrangements) are being left until later in the pro-
1	ject. If these decisions are left too much longer, it raises an increasing risk that we
	will not have sufficient time to change our balancing and imbalance settlement sys-
1	tems to be ready in time for TERRE implementation.
	We also have two questions in relation to this.
1	• What is the plan for making decisions on these aspects, i.e. when will we know
i	what these decisions are? There should be a TERRE plan for coming to these deci-
i	sions and consulting with and notifying the local stakeholders, who are also building
l	systems to make TERRE a success.
I	• How will TERRE notify us and other stakeholders of the decisions that are to be
i	made in a 'later' stage of the project?
Stake-	
holder 5	
Stake-	
holder 6	N/A
Stake-	In sub-chapter 3.1.3.4, we are rather confused by the example. The multi-part offers
holder 7	are depicted as a solution to model fixed costs. At the same time, the example illus-
i	trates with increasing per MWh costs for increasing volumes, which is counter-intui-
i	tive for integrating fixed costs into bids with increasing volumes. This would rather be
1	the other way around, with diminishing per MWh costs for increasing volumes.
	In sub-chapter 3.1.4.1, the classification of unavailable offers should be handled in a
i	transparent way towards the BSPs that are making these offers. The choice by TSOs
	to keep such offers from the CMOL of the TERRE project has an impact on the BSP, as
1	its offers have a reduced (unshared offers) or non-existing (restricted offer) chance to
i	be selected. A BSP making an offer marked as unavailable and kept out of the CMOL
I	of the TERRE project should be compensated for his loss.
	In sub-chapter 3.1.4.2 the bid conversions coming from Central Dispatch Systems
i	(CDS) is mentioned, though only with the short announcement that a methodology
1	for such a conversion is to be developed. We are worried by the intention to supply
l	the TERRE CMOL with balancing resources from a CDS "as long as their activation and
	delivery parameters fit the parameters of the TERRE product" while making no men-
1	tion on how the pricing would be tackled. It is important that bids coming from a CDS
	are not only correctly translated from local balancing resources in technical parame-
	ters, but that the pricing of such bids also allow for correct comparison of bids com-
	transparent way towards the BSPs that are making these offers. The choice by TSOs to keep such offers from the CMOL of the TERRE project has an impact on the BSP, as its offers have a reduced (unshared offers) or non-existing (restricted offer) chance to be selected. A BSP making an offer marked as unavailable and kept out of the CMOL of the TERRE project should be compensated for his loss. In sub-chapter 3.1.4.2 the bid conversions coming from Central Dispatch Systems (CDS) is mentioned, though only with the short announcement that a methodology for such a conversion is to be developed. We are worried by the intention to supply the TERRE CMOL with balancing resources from a CDS "as long as their activation and delivery parameters fit the parameters of the TERRE product" while making no mention on how the pricing would be tackled. It is important that bids coming from a CDS

	that will be develop will also include pricing elements and that the development will
Ct al	be done in close collaboration with stakeholders.
Stake- holder 8	No other comments
Stake- holder 9	Please see answer to Q 3.7.
Stake- holder 10	We do not have further comments.
Stake- holder 11	• In Article 3.1.4.1 it is mentioned that certain BSP offers can be marked by TSOs as unavailable. This can happen either for offers the TSO wants to keep back for its own use (unshared offers) or for offers that could lead to internal congestions or operational issues (restricted offers).
	The conditions under which a TSO can mark certain orders as unavailable should be further clarified. A transparent communication regarding unavailable and restricted offers is an essential component of a well-functioning market.
	It is also unclear whether the unshared offers that the TSO keeps for its own use are going to be activated outside TERRE and if and how the settlement for those offers will be made.
	Additionally it is essential for transparency reasons that the BSPs receive information on their offers that have been marked as unavailable, before the clearing phase to find an alternative to market them.
Stake- holder 12	
Stake- holder 13 Stake-	In Article 3.1.4.1 it is mentioned that certain BSP offers can be marked by TSOs as un- available. This can happen either for offers the TSO wants to keep back for its own use (unshared offers) or for offers that could lead to internal congestions or opera- tional issues (restricted offers). This provision is in accordance with the GL EB. It is our view that the conditions under which a TSO can mark certain orders as unavaila- ble should be further clarified. It is also unclear whether the unshared offers that the TSO keeps for its own use are going to be activated outside TERRE and if and how the settlement for those offers will be made. Additionally it is essential for transparency reasons that the BSPs receive information for their offers that have been marked as unavailable, before the clearing phase. In that way they might find an alternative use for their offered flexibility.
holder 14	·
Stake- holder 15	• 3.1.4.1: A transparent communication regarding unavailable and restricted offers is an essential component of a well-functioning market. This is particularly true for una- vailable offers mainly triggered for domestic economic reasons, whereas for re- stricted offers technical or congestions reasons are more relevant. It is our view that the conditions under which a TSO can mark certain orders as unavailable should be further clarified. It is essential for transparency reasons that the BSPs receive infor- mation for their offers that have been marked as unavailable, before the clearing phase.
Stake-	
holder 16	Demonstra 2 1 2 2 and 5 and 2 Calculations are seen as to a final state of the stat
Stake- holder 17	Paragraph 3.1.3.3 and Figure 3-6 show an example of exclusive offers in volume. Yet, it would be useful to describe also exclusive offers in time.
noider 17	

Stake-	
holder 18	
Stake-	
holder 19	No.
Stake-	The document does not analysis the firmness regime of inserted and accepted or-
holder 20	ders. For this reason, we would welcome if TERRE elaborates on this issue.
Stake- holder 21	The types of bid formats included in the Project (paragraph 3.1.3) should be evalu- ated considering national specificities and ensuring a gradual implementation. It should be pointed out that exclusive bids are not used in any of the Countries in- cluded in the Terre Project.
	Elastic Imbalance Needs: We would not support any possibility for TSOs to submit elastic bids/offers to the Common Merit Order. Imbalance Need should be submitted as a fixed volume, with- out price.
Stake- holder 22	We believe that an insight should be provided regarding the contents of paragraph 3.1.4. The possibility for TSOs to restrict or not share certain offers should be better analyzed, through a specific consultative process, as to avoid discretional behaviors. A minimum requirement would therefore be to duly inform market operators on the reasons that lay behind the TSO's decisions over the unavailability of certain offers. Otherwise it would be not clear, for example, if BSP balancing availability has not been selected due to competition (i.e. the price asked/offered) or grid constraints. A similar insight is also required regarding the conversion of bids related to CDSs as it is not clear how the TSOs would proceed in converting the bids (e.g. would the TSO be able to use national bids as "building blocks" to define a bid in such a format, which is unavailable in the relevant national market?), as well as a complete transparency on selected offers/prices made by each power plant participating to the market
	Lastly, we deem necessary to provide further the details over the concept of "physi- cal delivery" referred to in sub paragraph 3.1.4.2

4 Balancing CMO & Algorithm

4.1 **Q 4.1** Do you have any specific comments on the Balancing CMO description?

Stake-	With the available information is not possible to evaluate algorithm. The principle to
holder 1	maximize the welfare is in our opinion wrong. the goal of such kind of market should
	be the garantee of supply
Stake-	
holder 2	Please refer to answer to question 3.8.
Stake-	
holder 3	N/A
Stake-	
holder 4	

Stake-	
holder 5	Not Answered
Stake-	Again, it is not clear why including elastic needs would provide a lower balancing cost
holder 6	solution.
Stake-	
holder 7	We have no comments on the description of the Balancing CMO.
Stake-	
holder 8	No comment (descriptive chapter).
Stake-	We support the go-live of the project with only inelastic needs. Please see answer to
holder 9	Q 3.7.
	A fallback procedure in case the TERRE process should be tackled in further stages, after the go-live.
	We prefer to keep the hourly XB scheduling step in the first phase of the TERRE pro- ject to allow a faster implementation. Further improvements and evolution should be tackled in future stages (similar to more sophisticated offers) after consultation.
Stake-	
holder 10	No comment (descriptive chapter).
Stake-	• There are still some doubts on Balancing CMO based on social welfare, when some
holder 11	offers might be kept back for regional purposes.
Stake- holder 12	Not Answered
Stake-	
holder 13	No further comments
Stake-	
holder 14	1
Stake-	
holder 15	No comment
Stake-	
holder 16	Not Answered
Stake-	We support the main features of the CMO. In particular, we are in favour of the one-
holder 17	stage clearing process integrating the netting of imbalance needs and the activation of downward/upward offers. However, we want to stress that the efficiency of intra- day market has to be ensured in all the bidding zones involved in the project. Indeed, the establishment of an optimisation function embedded in the RR process does not justify the absence of efforts in improving the intra-day market design. We also support the proposal to undertake the optimization for the defined Market
	Clearing Time Period, i.e. the whole hourly delivery period.
Stake-	
holder 18	Not Answered
Stake-	We agree that a common merit order is required for balancing. As noted above this
holder 19	will facilitated through the use of simple standard products in the initial role out of Project Terre.
Stake- holder 20	We agree that the mechanism should maximize social welfare and it should use a sin- gle CMO and one-stage clearing process. At the same time, a common merit order can deliver adequate results only if there are common cap and floor prices and bids are able to reflect providers' costs (as express in section 3). In addition, before the in- troduction of TERRE, TSOs and NRAs should perform a detailed cost-benefit analysis
	on the possibility to modify market clearing time periods.

	At the same time, it is important that the consultation document describes in greater details 4.2.2 Volume indeterminacies: [] Different solutions of the main function may result in the same social welfare. If these solutions represent different accepted volumes, either in terms of offers or in terms of needs, then the solution that leads to the highest accepted volume is accepted. In fact, it could be useful to understand if it would be better to accept the one with lowest accepted volume.
Stake- holder 21	
Stake- holder 22	

4.2 Q 4.2 What is your opinion on allowing internal and XB counter-activations?

Stake-	
holder 1	Net relevant important is the secondination between TCO
	Not relevant, important is the coordination between TSO
Stake-	We agree with the concept as long as it uses always real offers made by market par-
holder 2	ticipants, not grouping of them made by any TSO or imbalance needs created by
Challes	TSOs. Again, please refer to answer to question 3.8.
Stake-	The counter-activation is consistent with the objective of TERRE, i.e. increase the
holder 3	overall social welfare and improve market efficiency. The algorithm shall support the
	internal and XB counter-activations. If needed, market rules can be developed to
<u>.</u>	limit the volume of counter-activations.
Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake-	The core task of TSOs is to ensure the system stability. An efficient exchange of en-
holder 6	ergy is guaranteed by market participants and indeed by market coupling. Hence we
	reject the proposed option for counter activations. This option would soften the sep-
	aration of roles between TSOs and BSPs which is at odds with the spirit of the Third
	Energy Package and its unbundling principle.
Stake-	We understand the rationale behind allowing internal and cross-border counter-acti-
holder 7	vations, as they may increase the social welfare. However, we make some strong res-
	ervations about allowing such actions in the context of a balancing energy procure-
	ment process as it implies that TSOs are no longer balancing their system but acting
	as market operators.
	The exchange of bids between market parties is a market function for which the for-
	ward, day-ahead and intraday time horizons – and in some markets after-day trading
	– are available. In order to optimize their functioning, it is important to ensure their
	liquidity and market depth. In the Intraday, liquidity is often concentrated close to
	the Intraday GCT, i.e. as close as possible to real-time. By allowing a potential ex-
	change between market parties beyond the GCT of the cross-border Intraday, liquid-
	ity from the Intraday may be shifted towards the TERRE platform. This would actually
	result in an impoverishment of the Intraday, running counter to the objective of the
	NC EB to allow BRPs as much opportunity as possible to balance their perimeter.
	The Le to anow bit s as much opportunity as possible to balance their perimeter.
	Additionally, in combination with the elastic imbalance need of TSOs – as discussed in
	question 3.8 – the use of counter-activations could potentially shift liquidity from the
L	

 imbalances. In this, the unbundling principle would seem to get on a slippery slope where an additional semi-market is created where TSOs can behave as a kind of market participant. Stake- In line with our response to question 3.8, we have concerns that internal and cross- border counter-activations could lead to a reconsideration of the respective roles of TSOs and BSPs. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BSP imbalances: BSPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these markets depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging bids beyond the gate closure of the intraday market. Stake- We support the go-live of the project, after due analysis and consultation (with ree data, since the study presented in the consultation is based on historical data of 2013). Stake- In line with our response to question 3.8, we have concerns that internal and cross-border counter-activations could lead to a reconsideration of the respective roles of TSOs and BRPs. The core task of TSOs is to ensure system security. An efficient exchange of energy is guaranteed by market participants and indeed by market coupling. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BRP imbalances: BRPs are responsible for adjusting position in all timeframes, form forward to intraday, and the efficient functioning of these market: depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging bids beyond the gate closure of the intraday market. Considering that liquidity on the intraday market is often concernted Member States. This would have the potential to reduce liquidity on the i		
holder 8border counter-activations could lead to a reconsideration of the respective roles of TSOs and BSPs. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BSP imbalances: BSPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these markets depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging bids beyond the gate closure of the intraday market.Stake- holder 9We support the go-live of the project, after due analysis and consultation (with red data, since the study presented in the consultation is based on historical data of 2013).Stake- holder 10In line with our response to question 3.8, we have concerns that internal and cross- thore counter-activations could lead to a reconsideration of the respective roles of TSOs and BRPs. The core task of TSOs is to ensure system security. An efficient ex- change of energy is guaranteed by market participants and indeed by market cou- pling. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BRP imbalances: BRPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these market depends on their liquidity and depth. Allowing counter-activations by the gate closure of the intraday market. Considering that liquidity on the intraday market is often concentrated close to GCT, this would have the potential to reduce liquidity on the intraday market.Stake- holder 11• We support counter-activations.Stake- holder 12Not AnsweredStake- holder 13• We support allowing internal and XB counter-activations as their pros (increase of		where an additional semi-market is created where TSOs can behave as a kind of mar-
holder 8border counter-activations could lead to a reconsideration of the respective roles of TSOs and BSPs. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BSP imbalances: BSPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these markets depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging bids beyond the gate closure of the intraday market.Stake- holder 9We support the go-live of the project, after due analysis and consultation (with red data, since the study presented in the consultation is based on historical data of 2013).Stake- holder 10In line with our response to question 3.8, we have concerns that internal and cross- thore counter-activations could lead to a reconsideration of the respective roles of TSOs and BRPs. The core task of TSOs is to ensure system security. An efficient ex- change of energy is guaranteed by market participants and indeed by market cou- pling. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BRP imbalances: BRPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these market depends on their liquidity and depth. Allowing counter-activations by the gate closure of the intraday market. Considering that liquidity on the intraday market is often concerntated close to GCT, this would have the potential to reduce liquidity on the intraday market.Stake- holder 11• We support counter-activations.Stake- holder 12Not AnsweredStake- holder 13• We support allowing internal and XB counter-activations as their pros (increase of	Stake-	
holder 9matter in a further stage of the project, after due analysis and consultation (with read data, since the study presented in the consultation is based on historical data of 2013).Stake- holder 10In line with our response to question 3.8, we have concerns that internal and cross- border counter-activations could lead to a reconsideration of the respective roles of TSOs and BRPs. The core task of TSOs is to ensure system security. An efficient ex- change of energy is guaranteed by market participants and indeed by market cou- pling. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BRP imbalances: BRPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these market: depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging bids beyond the gate closure of the intraday market. Considering that liquidity on the intraday market is often concentrated close to GCT, this would have the potential to reduce liquidity on the intraday market, which already suffers from limited dynamism in some of the concerned Member States. This would also contravene the principle of the Electricity Balancing guideline that both BRPs and BSPs should be given maximur opportunities to adjust their portfolio before intraday GCT.Stake- holder 11• We support allowing internal and XB counter-activations as their pros (increase of so the lot are used and increase slighth holder 12holder 13will this "internal" netting be made transparent to the bsp's ?Stake- holder 14will this "internal" netting be made transparent to the bsp's ?Stake- holder 15Counter-activations have a positive impact on the socia		border counter-activations could lead to a reconsideration of the respective roles of TSOs and BSPs. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BSP imbalances: BSPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these markets depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging
holder 9matter in a further stage of the project, after due analysis and consultation (with read data, since the study presented in the consultation is based on historical data of 2013).Stake-In line with our response to question 3.8, we have concerns that internal and cross- border counter-activations could lead to a reconsideration of the respective roles of TSOs and BRPs. The core task of TSOs is to ensure system security. An efficient ex- change of energy is guaranteed by market participants and indeed by market cou- pling. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BRP imbalances: BRPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these market: depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging bids beyond the gate closure of the intraday market. Considering that liquidity on the intraday market is often concentrated close to GCT, this would have the potential to reduce liquidity on the intraday market, which already suffers from limited dynamism in some of the concerned Member States. This would also contravene the principle of the Electricity Balancing guideline that both BRPs and BSPs should be given maximur opportunities to adjust their portfolio before intraday GCT.Stake- holder 11• We support allowing internal and XB counter-activations as their pros (increase of sc holder 12Stake- 	Stake-	We support the go-live of the project without counter-activations, and tackle this
holder 10border counter-activations could lead to a reconsideration of the respective roles of TSOs and BRPs. The core task of TSOs is to ensure system security. An efficient ex- change of energy is guaranteed by market participants and indeed by market cou- pling. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BRP imbalances: BRPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these market: depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging bids beyond the gate closure of the intraday market. Considering that liquidity on the intraday market is often concentrated close to GCT, this would have the potential to reduce liquidity on the intraday market, which already suffers from limited dynamism in some of the concerned Member States. This would also contravene the principle of the Electricity Balancing guideline that both BRPs and BSPs should be given maximur opportunities to adjust their portfolio before intraday GCT.Stake- holder 11• We support counter-activations.Stake- holder 12Not AnsweredStake- holder 13weigh the cons from the BSP perspective.Stake- holder 14will this "internal" netting be made transparent to the bsp's ?Stake- holder 15Kenter-activations have a positive impact on the social welfare and increase slightly the activation volumes. As presented in the consultation document, counter activa- tion are not expected to occur at large extent. For these reasons we approve the cor cept of counter-activation.Stake- holder 15Not AnsweredStake- holder 16Not Answered	holder 9	matter in a further stage of the project, after due analysis and consultation (with real data, since the study presented in the consultation is based on historical data of
TSOs and BRPs. The core task of TSOs is to ensure system security. An efficient exchange of energy is guaranteed by market participants and indeed by market coupling. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BRP imbalances: BRPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these markets depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging bids beyond the gate closure of the intraday market. Considering that liquidity on the intraday market is often concentrated close to GCT, this would have the potential to reduce liquidity on the intraday market, which already suffers from limited dynamism in some of the concerned Member States. This would also contravene the principle of the Electricity Balancing guideline that both BRPs and BSPs should be given maximur opportunities to adjust their portfolio before intraday GCT.Stake- holder 11• We support counter-activations.Stake- holder 12Not AnsweredStake- holder 13We support allowing internal and XB counter-activations as their pros (increase of soc ical-welfare; non-distortion of marginal price; higher chance of BSP activation) out- weigh the cons from the BSP perspective.Stake- holder 13will this "internal" netting be made transparent to the bsp's ?Stake- holder 14will this "internal" netting be made transparent to the social welfare and increase slighth holder 15holder 16Not AnsweredStake- holder 16We share TSOs' view on counter-activations contributing to increasing the social welfare	Stake-	In line with our response to question 3.8, we have concerns that internal and cross-
holder 11• We support counter-activations.Stake- holder 12Not AnsweredStake- holder 13We support allowing internal and XB counter-activations as their pros (increase of so cial-welfare; non-distortion of marginal price; higher chance of BSP activation) out- weigh the cons from the BSP perspective.Stake- holder 14will this "internal" netting be made transparent to the bsp's ?Stake- holder 15Counter-activations have a positive impact on the social welfare and increase slightly the activation volumes. As presented in the consultation document, counter activa- tion are not expected to occur at large extent. For these reasons we approve the cor cept of counter-activation.Stake- holder 16Not AnsweredStake- we share TSOs' view on counter-activations contributing to increasing the social welf		border counter-activations could lead to a reconsideration of the respective roles of TSOs and BRPs. The core task of TSOs is to ensure system security. An efficient exchange of energy is guaranteed by market participants and indeed by market coupling. Counter-activations would grant a role to TSOs that we believe goes beyond that of managing BRP imbalances: BRPs are responsible for adjusting position in all timeframes, from forward to intraday, and the efficient functioning of these markets depends on their liquidity and depth. Allowing counter-activations by the TSOs would be tantamount to having market participants mandatorily exchanging bids beyond the gate closure of the intraday market. Considering that liquidity on the intraday market is often concentrated close to GCT, this would have the potential to reduce liquidity on the intraday market, which already suffers from limited dynamism in some of the concerned Member States. This would also contravene the principle of the Electricity Balancing guideline that both BRPs and BSPs should be given maximum
Stake- holder 12Not AnsweredStake- holder 13We support allowing internal and XB counter-activations as their pros (increase of so cial-welfare; non-distortion of marginal price; higher chance of BSP activation) out- weigh the cons from the BSP perspective.Stake- holder 14will this "internal" netting be made transparent to the bsp's ?Stake- holder 15Counter-activations have a positive impact on the social welfare and increase slightly the activation volumes. As presented in the consultation document, counter activa- tion are not expected to occur at large extent. For these reasons we approve the cor cept of counter-activation.Stake- holder 16Not AnsweredStake- we share TSOs' view on counter-activations contributing to increasing the social welf		
holder 12Not AnsweredStake- holder 13We support allowing internal and XB counter-activations as their pros (increase of sc cial-welfare; non-distortion of marginal price; higher chance of BSP activation) out- weigh the cons from the BSP perspective.Stake- holder 14will this "internal" netting be made transparent to the bsp's ?Stake- holder 15Counter-activations have a positive impact on the social welfare and increase slightly the activation volumes. As presented in the consultation document, counter activa- tion are not expected to occur at large extent. For these reasons we approve the cor cept of counter-activation.Stake- holder 16Not AnsweredStake- we share TSOs' view on counter-activations contributing to increasing the social welf		We support counter-activations.
Stake- holder 13We support allowing internal and XB counter-activations as their pros (increase of sc cial-welfare; non-distortion of marginal price; higher chance of BSP activation) out- weigh the cons from the BSP perspective.Stake- holder 14will this "internal" netting be made transparent to the bsp's ?Stake- holder 15Counter-activations have a positive impact on the social welfare and increase slightly the activation volumes. As presented in the consultation document, counter activa- tion are not expected to occur at large extent. For these reasons we approve the cor cept of counter-activation.Stake- holder 16Not AnsweredStake- holder 16We share TSOs' view on counter-activations contributing to increasing the social welf		
holder 13cial-welfare; non-distortion of marginal price; higher chance of BSP activation) out- weigh the cons from the BSP perspective.Stake- holder 14will this "internal" netting be made transparent to the bsp's ?Stake- holder 15Counter-activations have a positive impact on the social welfare and increase slightly the activation volumes. As presented in the consultation document, counter activa- tion are not expected to occur at large extent. For these reasons we approve the cor cept of counter-activation.Stake- holder 16Not AnsweredStake- holder 16We share TSOs' view on counter-activations contributing to increasing the social welf		
holder 14will this "internal" netting be made transparent to the bsp's ?Stake- holder 15Counter-activations have a positive impact on the social welfare and increase slightly the activation volumes. As presented in the consultation document, counter activa- tion are not expected to occur at large extent. For these reasons we approve the cor cept of counter-activation.Stake- holder 16Not AnsweredStake- ke-We share TSOs' view on counter-activations contributing to increasing the social welfare		cial-welfare; non-distortion of marginal price; higher chance of BSP activation) out-
Stake- holder 15Counter-activations have a positive impact on the social welfare and increase slightly the activation volumes. As presented in the consultation document, counter activa- tion are not expected to occur at large extent. For these reasons we approve the cor cept of counter-activation.Stake- holder 16Not AnsweredStake- we share TSOs' view on counter-activations contributing to increasing the social welfare	Stake-	
holder 15the activation volumes. As presented in the consultation document, counter activation tion are not expected to occur at large extent. For these reasons we approve the concept of counter-activation.Stake- holder 16Not AnsweredStake- versionWe share TSOs' view on counter-activations contributing to increasing the social weight	holder 14	will this "internal" netting be made transparent to the bsp's ?
Stake- holder 16Not AnsweredStake-We share TSOs' view on counter-activations contributing to increasing the social well		tion are not expected to occur at large extent. For these reasons we approve the con-
holder 16Not AnsweredStake-We share TSOs' view on counter-activations contributing to increasing the social we	Stake-	
Stake- We share TSOs' view on counter-activations contributing to increasing the social we		Not Answered
5 5		
Stake-		
holder 18 Not Answered		Not Answered

Stake- holder 19	We do not support the use of allowing internal and XB counter activations for the ini- tial deployment of Project TERRE. Once the TSOs have defined a requirement this should be fixed through the procurement process.
Stake- holder 20	In line with our response to question 3.8, internal and cross-border counter-activa- tions could lead to a reconsideration of the respective roles of TSOs and BRPs. The core task of TSOs is to ensure the system stability but counter-activations would grant a role to TSOs that we believe goes beyond that of managing BRPs imbalances. It is important to correct a statement of the consultation made in the consultation document. In fact, not in all bidding zones intraday gate closures are close to real time. For example in Italy and Spain, as shown in table 2.2, XB intraday markets close at least 3.5 hours before delivery.
Stake- holder 21	
Stake- holder 22	

4.3 Q 4.3 Do you agree with the proposed treatment of HVDC losses?

Stake-	
holder 1	yes
Stake-	
holder 2	No comments.
Stake-	Yes. The HVDC losses shall be considered in the algorithm. Based on our experiences
holder 3	with the implementation of scheduling algorithm for RTOs/TSOs in North America
	and Europe, the algorithm should be able to support multiple loss models according
	to the technical characteristics of HVDCs.
Stake-	We need more detail on how the Day-Ahead Market Coupling treats HVDC losses if
holder 4	this is the proposed treatment in TERRE before we can assess the proposal for its im-
	pact on our systems and processes and give you a considered response. There was
	no detail in the TERRE consultation document on this point.
Stake-	
holder 5	Not Answered
Stake-	It's not really clear how this works from the consultation document. Some more clar-
holder 6	ity on this would be helpful before we would be able to comment.
Stake-	We agree to treat the HVDC losses in the same way as the Day-ahead market cou-
holder 7	pling does.
Stake-	
holder 8	No comment
Stake-	
holder 9	Yes
Stake-	
holder 10	We agree with the proposed solution.
Stake-	
holder 11	• Yes
Stake-	
holder 12	Not Answered
Stake-	We support using the same methodology for the consideration of the HVDV losses as
holder 13	in Day-Ahead Market Coupling.
Stake-	
holder 14	

Stake-	Since the HVDC losses are treated identical to the Day-Ahead Market Coupling we
holder 15	have no objection to the proposed treatment.
Stake-	
holder 16	Not Answered
Stake-	We agree with the proposed treatment of HVDC losses. However, this proposal
holder 17	should be more detailed. For instance, it is difficult to anticipate how the situation on
	the border between France and Spain would be handled, where both HVDC and AC
	lines coexist.
Stake-	
holder 18	Not Answered
Stake-	We recognise that delivery volumes may need to be adjusted for losses, both AC and
holder 19	DC losses. We believe that a common approach is required to the treatment of deliv-
	ered volumes (loss adjusted) and that this should be reflected in the price.
Stake-	
holder 20	Yes, we agree with the proposed treatment of HVDC losses.
Stake-	
holder 21	
Stake-	
holder 22	

4.4 Q 4.4 Do you have specific comments regarding chapter 4 content? (Please indicate sub-chapter reference when possible)

Stake-	
holder 1	no, see above
Stake- holder 2	Specifically, since we do not support the existence of elastic needs by TSOs, in 4.2.5 Netting method, the reference to elastic needs should be eliminated.
Stake- holder 3	In general, the balancing algorithm should be capable of scaling up very well. This means taking into account new geographies (new COBAs, zones), new complexities – such as different types of products such as RR, mFRR, aFRR, interval timeframes, and technical constraints. Given our experience in implementing balancing markets, a well implemented algorithm leads to accurate price signals and is performance proven. This is necessary to achieving feasible results so that national TSOs can avoid implementing backup mechanisms.
Stake- holder 4	Section 4.2.4 notes that 'it will be important to shorten the scheduling step in future'. We note that this must not be used as an argument to prejudge the Imbalance Settle- ment Period (ISP) duration as well. There is no compelling need to make Imbalance Settlement Period (ISP) duration and scheduling step equal. For example, GB cur- rently operates with minute by minute balancing products and a 30 minute ISP. This will also be important to note if other CoBAs for different Standard Products, such as mFRR, have, or have a desire to have, different scheduling steps from TERRE.
	Section 4.2.8 notes that if the TERRE clearing process fails, then national processes will apply. It is very important for balancing and imbalance processes that each party affected, including us as the balancing settlement and imbalance settlement administrator for GB, knows exactly when the central TERRE process has failed, and also when it can assume that the process has failed, even if it is only slow or late.
	We will need pre-defined fall-back rules in our local arrangements that come into ac- tion when there is no or missing information from the central TERRE systems. This should be agreed by the TERRE project across all the TERRE TSOs and communicated

	to us as soon as possible so that we can design our local systems to interface with TERRE. See also our answer to consultation Question 7.4.
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
Stake- holder 7	We support the use of Unforeseeably Accepted/Rejected Offers (UAO/URO), if it is implemented in a fair and transparent way. For this, two conditions have to be met:
	- The use of UAOs and/or UROs should result in a demonstrable increase in overall welfare;
	- Side-payments should be used to both indemnify market parties with UROs as they suffer opportunity costs and pay market parties with UAOs the difference between the clearing price and their bid price.
	These two conditions ensure acceptability of the use of UAO/UROs by market participants in order to increase the overall welfare.
	Additionally, the use of UAO/UROs to achieve an overall increase in welfare should be explained and communicated in a transparent way. Otherwise, such seemingly paradoxical measures may undermine the trust of market parties in the efficiency and fairness of the TERRE platform. The current handling of Paradoxically Rejected Bids (PRBs) in the Euphemia algorithm of the day-ahead market coupling does not meet any of the two conditions of transparency and side-payments. As a result, the trust of market parties in the fairness of the algorithm has been undermined and its optimality is current put in question. The TERRE project should learn from this experi- ence when dealing with the UAO/UROs.
Stake-	
holder 8	No comment
Stake-	The result of the study of Unforeseeably Accepted/Rejected Offers referred in sub-
holder 9	chapter 4.3.2.3 should be published and subject to consultation.
Stake-	On section 4.3.2.3 on Unforeseeably Accepted and Rejected Offers (UAO/URO): while
holder 10	the Unforeseeably Rejected Offers are equivalent to PRBs in the day-ahead timeframe, we have questions regarding the use of Unforeseeably Accepted Offers. The remuneration of bids should certainly not be less that the requested price. How- ever, the use of pay-as-bid for UAOs would introduce a discrimination in the treat- ment of the various offers and would go against the principle of uniform marginal pricing. While we support efforts to improve the efficiency of joint procurement of RR, amendments of such importance to the market design should not be decided without considering their impact on the intraday market and overall welfare. There- fore, a thorough assessment of the risks and benefits of introducing UAOs, as well as more details on the precise methodology considered by TSOs is needed for us to take a definitive position on the subject.
	Along the lines of existing requests made by us in the framework of the use of Para- doxically Rejected Bids (PRB) in the Euphemia algorithm for the day-ahead timeframe, the use of UAO/URO should be fair and transparent. The framework de- signed for the use of UAOs and/or UROs should be clear and result in a demonstrable increase in overall welfare; regular reporting on the occurrence of the use of UAO/URO, as well as on their impact on social welfare, should be available to market participants.

Stake-	
holder 11	No comment
Stake-	
holder 12	Not Answered
Stake-	
holder 13	No further comments
Stake-	4.3.2.3 This question is quite an important issue especially how to make such unfor-
holder 14	seenable activations transparent for all market participants.
Stake-	Chapter 4 is relatively high-level, which makes it complicated to give an in-depth
holder 15	opinion concerning the Balancing CMO and algorithm. We stress on the fact that we
	approve the general concept of an optimized welfare and a harmonization of local
	rules to avoid complexities and prevent discrimination.
Stake-	
holder 16	Not Answered
Stake-	We would like to stress that "Unforeseeably Accepted and Rejected offers" should be
holder 17	an issue to be treated in a transparent way, from the very beginning. Notably, the ex-
	perience gained through the implementation of the day-ahead price coupling should
	be duly taken into account. Whereas the price coupling project (PCR) is undoubtedly
	a success, there are currently growing discussions on the subject of Paradoxically Re-
	jected Bids. Since this issue is in our view rather similar for both the projects, we ad-
	vocate for full transparency starting from the design and early implementation of
	TERRE.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	No comment
Stake-	The document should better analyse how TSOs will optimise the use of local balanc-
holder 20	ing products and TERRE product.
	In addition, it is not clear if Terna will define its Imbalance Need at global (Italy) level
	or at zonal (or aggregate of zones) level. We request to clarification on this point.
Stake-	National price zones and congestions in Italy (par. 4.3.3):
holder 21	
	"Terna, for each market zone, will submit to TERRE: different ATC values; different of-
	fers and one need for the whole area". From this text it is not clear if Terna will de-
	fine its Imbalance Need at global (Italy) level or at zonal (or aggregate of zones) level.
	We request some clarifications on this point.
	we request some clarifications on this point.
	Elastic Imbalance Needs:
	We would not support any possibility for TSOs to submit elastic bids/offers to the
	Common Merit Order. Imbalance Need should be submitted as a fixed volume, with-
	out price.
Stake-	Referring to par. 4.3.3, it is not clear whether the "imbalance need" submitted by the
holder 22	Italian Tso will be a national-level aggregate or a series of zonal needs.

5 Settlement

5.1 **Q 5.1** Do you agree that the proposed settlement design is in line with the principles of the EB GL and the integration of balancing markets?

Stake-	Ne support the pay as cleared approach
Stake-	Ne support the pay as cleared approach
i i	
holder 2 Y	/es, we do.
holder 3 n	Ne have typically seen marginal pricing (pay-as-cleared) as the de-facto pricing nechanism in balancing markets. This is true for energy based actions. However, for
	non-energy actions we have also seen pricing based on pay-as-bid.
1	There is a statement in section 5.4 that the Imbalance Price can be calculated as the
e n q	weighted average costs of the entire hour. We assume that this is a typographical error and that it should have stated the Marginal Price. If, however, it really did mean Imbalance Price then this is not in line with the GL EB, and we would further question why TERRE is concerned with calculating an imbalance price, as this should be left to the local arrangements, which will also harmonise as required by the GL EB.
p n	Other than on the above point, we agree that the proposed design for a marginal price is in line with the latest public draft GL EB (July 2015), but note that the GL EB is not yet in its final agreed form and we have had no sight of more recent developments in the text.
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
Stake- V	Ne agree that the use of Pay-as-Cleared is in line with the principles of the EB GL.
holder 7 ⊢ (, t	However, the pricing method for balancing energy as covered in Art. 42 of the EB GL ACER draft) is applicable not only on the settlement between TSOs as proposed in the TERRE project. It is also applicable to the settlement between TSO and BSP and TERRE should include such an alignment of the settlement design in its scope.
holder 8 e G b le	We support the implementation of marginal pricing for the settlement of RR energy exchanged through the TERRE platform, along the lines of the ACER Framework Guidelines and the current version of the Electricity Balancing guideline. We do not believe that an alternative pricing methodology can be more efficient at European evel. We understand these provisions as applying to settlement of both TSO-TSO and TSO-BSP exchanges.
1 1	Ne support the implementation of marginal pricing according to EB GL , for both
j	ISO-TSO and BSP-TSO settlement. We do not support the ramp settlement.
	Ne support the implementation of marginal pricing for the settlement of RR energy
G b le	exchanged through the TERRE platform, along the lines of the ACER Framework Guidelines and the current version of the Electricity Balancing guideline. We do not believe that an alternative pricing methodology can be more efficient at European evel. We understand these provisions as applying to settlement of both TSO-TSO and TSO-BSP exchanges.
Stake-	
holder 11 •	• We mainly point on the pay-as-cleared scheme.
Stake-	
holder 12 N	Not Answered

Stake-	We support the proposed settlement design, as it is in accordance with the Frame-
holder 13	work Guidelines (FW) (2012) and the GL EB (2015).
Stake-	
holder 14	Yes
Stake-	According to the framework Guidelines on Electricity Balancing and the EB GL the
holder 15	pay–as-cleared pricing scheme is clearly the preferred scheme. This corresponds to our conviction of an adequate pricing methodology.
Stake-	
holder 16	Not Answered
Stake-	The proposed design seems to be in line with the principles of the EB GL concerning
holder 17	the preference for the application of the pay-as-cleared principle for the settlement of XB Balancing schedules derived from TERRE. However, from both BSPs and BRPs point of view, this choice needs to be confirmed by the local implementation ar- rangements.
Stake-	
holder 18	
Stake-	We believe that Project TERRE is in line with the Balancing Framework Guideline,
holder 19	while recognising that the final version is yet to be ratified.
Stake-	
holder 20	The settlement design is in line with Electricity Balancing Guidelines.
Stake-	
holder 21	
Stake-	
holder 22	

5.2 Q 5.2 Do you agree with the application of cross border marginal pricing, settlement of the block and the proposed design for the definition of Marginal Price between TSOs at the XB level?

Stake-	
holder 1	yes
Stake-	
holder 2	Yes, we do.
Stake-	
holder 3	See response above
Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake- holder 6	As mentioned above, a block trade and settlement poses issues for the GB arrange- ments about who is responsible for the ramp volumes. Occurring ramps should not be at the expense of the BSPs.
Stake- holder 7	We agree with the proposed settlement design between TSOs – both for the pricing in the form of Pay-as-Cleared (marginal pricing) as the exclusion of the power ramps –, and asks that the same design is applied to the settlement between BSPs and TSOs.

	We also agree with the proposed methodologies in case of indetermination and not
	We also agree with the proposed methodologies in case of indeterminacies and net- ting.
Stake- holder 8	We agree with the proposed settlement design between TSOs, both for the pricing in the form of Pay-as-Cleared (marginal pricing) and the exclusion of the power ramps.
Stake-	
holder 9	Yes
Stake- holder 10	We agree with the proposed settlement design between TSOs, both for the pricing in the form of Pay-as-Cleared (marginal pricing) and the exclusion of the power ramps. In line with our comments in response to question 5.A, we request that the same de sign principles apply to the settlement between BSPs and TSOs.
	We also agree with the elements on the calculation of the marginal price and on the settlement of price indeterminacies – which foresees a neutral solution likely to have the least impact on welfare. Regarding congestion rents, we agree with the TSOs that the methodology for allocation these rents should be aligned to that of other timeframes.
Stake-	
holder 11	 We not yet overlook all the implications within the bidding zones.
Stake- holder 12	Not Answered
Stake-	We believe that the described cross border marginal pricing, block settlement and
holder 13	definition of marginal price between TSOs at the XB level complies with the GL EB.
	Moreover the methodology of handling indeterminacies, netting of imbalance need
	and calculation of congestion rents is solid.
Stake-	5.4 Are the bidding zones equal to todays TSO responibilities? Is it possible, that bid-
holder 14	ding zones within countries (except the mentioned price zones in italy can occure? Is it possible that this bidding zones are different form one day to the other (mainte- nance of transmission lines, power plants etc.?
Stake-	We agree with the application of cross border marginal pricing, the settlement and
holder 15	the definition of marginal pricing between TSOs at the XB level. Nevertheless, we see major challenges within the bidding zones for an adequate settlement. Mainly in the calculation of the balancing energy price and the frequency of the publication. We understand that this is out of scope of the TERRE project but this will finally have an important impact on the implementation of TERRE. It is important that the handling of Marginal Price between TSOs at XB level within TERRE is consistent with methodo ogies applied in other coupling mechanisms.
Stake-	
holder 16	Not Answered
Stake- holder 17	We disagree with the exclusion of the energy associated with ramps from the settle- ment of the TERRE product since the delivered energy during ramping phases is far from negligible, e.g. in case of a 15 minutes block it may potentially represent twice the energy amount considered for the product, and therefore it has to be taken into account. In particular, Table 2-1 shows that a majority of TSOs currently include ramps in local settlement and, if it was up to BSPs to embed this additional energy in their bids, this could greatly inflate prices.
	Moreover, we also wish to contest the relationship presented in §5.2 between the "scheduled" nature of the TERRE product and the exclusion of ramps. On this matter we do not see any fundamental difference between scheduled and direct activated products.
Stake- holder 18	We would like Entso-e to consider including ramps in product settlement.
	Page 47 of 96

	Ramp settlement is a key characteristic of several Member State's existing regimes.
	Excluding ramps from settlement introduces significant risks to market participants in
	these Member States and creates a barrier to participation in Terre.
Stake-	We agree with the approach towards cross border marginal pricing and settlement of
holder 19	the block. We agree with the definition of the marginal price.
Stake-	If the product is used only as RR, the settlement should be pay as clear; otherwise, if
holder 20	TERRE product is used to resolve internal congestions, pay as bid methodology
	should be preferred. In fact, this pricing methodology could allow a specific valuation
	of resources' location.
	We agree that the settlement should avoid energy associated with ramps; in order to ensure transparency, each BSP should internalize in its bid the "cost" of the ramp.
Stake-	
holder 21	
Stake-	
holder 22	

5.3 Q 5.3 What is your perspective regarding the alignment of the TSO-TSO settlement procedure and the BSP-TSO settlement procedure?

Stake-	
holder 1	depends on the still open details
Stake-	The alignment of both settlement procedures is the only way to avoid discrimination
holder 2	between market participants.
Stake-	
holder 3	N/A
Stake-	It is important that settlement procedures are aligned between TERRE and local ar-
holder 4	rangements; or at least that the local arrangements are designed in the knowledge of the precise TERRE proposals for settlement (both the timing of billing and money transfers).
	This is because we invoice BSPs and BRPs at set times using the information we have to hand according to set rules and the payment due dates are also specified in those invoices. If we have local payment arrangements that do not match the TERRE pay- ment arrangements, we will have the situation where local BSPs are expecting to be paid but we have received no money from central TERRE arrangements to pay them; and where TERRE TSOs are expecting to be paid but we have received no money from the local BSPs to pay the TERRE TSOs. Therefore we must align our arrange- ments and TERRE together and they must remain aligned on an ongoing basis.
	So we need to know the TERRE proposals for the timing of billing and payments as soon as possible; and we will need sufficient and long notice of any future change to these proposals so that we can amend our own systems in line with TERRE each time that TERRE changes in future.
	We also need to know how frequently and for what period TERRE plans to bill and settle payments, e.g. GB currently operates with daily billing with payment approxi- mately 28 days following the day in question. And we need to know whether TERRE will do re-calculations/reconciliations for a given billing period if errors are found in the initial TERRE calculations or input data for example; and when it will do them if it does; and whether it will apply interest?

[1
	In response to Question 3.5, we also made an observation on the settlement treat- ment of ramps as follows.
	The imbalance arrangements in European Member States are not yet harmonised and it will take time to implement harmonisation after the requirements are known and have been approved by the NRAs. Because of this, we suggest that consideration is given to treating ramps as zero-priced contracts and not treated as imbalances by
	the TERRE Member States. Treating ramps as imbalances will cause BSPs to include their local imbalance costs in their TERRE Bid Prices. Because currently the imbalance prices are based on different formulations in different TERRE Member States, this will pollute the Common Merit Order. Treating ramps as zero-priced contracts means that TERRE TSOs still only pay for the TERRE Products and not the ramps and also
	avoids polluting the Common Merit Order List, while also ensuring that local BRPs are not disadvantaged in local imbalance arrangements for ramping actions essential for the delivery of the accepted TERRE product.
Stake-	
holder 5	Not Answered
Stake- holder 6	Somehow this would need to be aligned in a sensible manner to allow BSPs to offer into TERRE and the local balancing market in a consistent manner. A BSP will proba- bly want to offer products into both and acceptances in one mechanism will affect what can be accepted in the other.
Stake-	In line with our responses to previous questions, we considers that the BSP-TSO set-
holder 7	tlement procedure should be harmonized for all BSPs. The way BSPs are settled has a
	direct impact on their bidding behaviour. Consequently, having divergent settlement
	regimes will skew the playing field and distort the market by favouring BSPs in one
	country over BSPs in another country. As all BSPs have to compete directly on the
	same CMOL, they should do so under the same rules.
Stake-	In line with our responses to questions 5.1 and 5.2, we believe that the TSO-BSP set-
holder 8	tlement procedure should be aligned on the TSO-TSO settlement procedure. Consid-
	ering that all BSP bids will compete on the same CMOL, introducing different TSO-BSP settlement procedures would skew the playing field and effectively introduce dis- crimination between market participants.
Stake-	
holder 9	We support harmonization of TSO-TSO and BSP-TSO settlement to marginal pricing.
Stake-	In line with our responses to questions 5.1 and 5.2, we believe that the TSO-BSP set-
holder 10	tlement procedure should be aligned on the TSO-TSO settlement procedure. Consid-
	ering that all BSP bids will compete on the same CMOL, introducing different TSO-BSP
	settlement procedures would skew the playing field and effectively introduce dis-
	crimination between market participants.
Stake-	
holder 11	• No comment
Stake-	
holder 12	Not Answered
Stake-	We strongly believe that a harmonization between the TSO-TSO and BSP-TSO settle-
holder 13	ment procedure regarding the TERRE standard product should be achieved. BSP-TSO
	settlement of the TERRE standard products should move to pay as cleared scheme
	for all involved TSOs. The same alignment should be achieved regarding the non-in-
	clusion of ramps in the settlement.
Stake-	
holder 14	

Stake-	
holder 15	No comment
Stake-	
holder 16	Not Answered
Stake- holder 17	We believe that, if TSO-TSO settlement is based on marginal price, TSO-BSP settle- ment regimes should be based on the same method. Moreover, TSO-BRP imbalance settlement rules should allow accurately passing on balancing costs to the BRPs, while taking into account the method adopted to set the price of balancing energy. This could be achieved, for instance, by fixing an imbalance settlement price on the basis of the weighted average cost of all balancing energies. This approach will en- sure the financial neutrality of TSOs.
Casha	We also believe that NRAs should be in charge to ensure the consistency of the na- tional TSO-BSP and TSO-BRP settlement procedures together with the TSO-TSO set- tlement, even though the current discrepancies should not prevent the implementa- tion of the project.
Stake- holder 18	
Stake-	We believe that, ideally, the TSO-TSO settlement process and the BSP-TSO settle-
holder 19	ment process should be aligned.
Stake- holder 20	The presence of different ISPs should not be a problem for the implementation of TERRE project, at the same time TSOs and regulatory authority should continue stud- ying if there are significant advantages for BSP with long ISP and should analyse pos- sible solutions.
	In addition, as already said, on netting of Imbalance Needs: Elastic needs should not be allowed, and accordingly to this, last two bullets on page 34 from the consultation paper should be deleted
Stake-	
holder 21	
Stake-	
holder 22	

5.4 Q 5.4 Do you have specific comments regarding chapter 5 content? (Please indicate sub-chapter reference when possible)

Stake-	
holder 1	
Stake-	
holder 2	No more comments.
Stake-	The common solution should be flexible to meet new timelines, processes and settle-
holder 3	ment charges without the need of new development. The application of such fea-
	tures should be formula and event driven.
Stake-	
holder 4	See our answers to Questions 5.1 and 5.3.
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A

Stake-	
}	Ve have no further comments on this chapter.
Stake-	
	lo comment
1	Subchapter 5.4 - It is mentioned one methodology for the calculation of the Imbal-
ł ł	nce Price, but stating that there are "different methodologies under study", but no
T T	urther explanation is given.
, c	whether the first operation of indetermination described in charter E.C. (only
I I	Subchapter 5.6 - The occurrence of indeterminacies described in chapter 5.6 (only netting of needs) have to be reported. Please see answer to Q 11.1.In the case of
	elastic needs we agree with setting middle price. In the case of inelastic needs and
	elastic needs, we support the proposed solution (the last 'theorical' accepted offer).
	astic needs, we support the proposed solution (the last theorical accepted oner).
s s	subchapter 5.7 - We expect a consultation launched by NRAs will take place on this
1 1	natter.
Stake-	
1	Ve do not have further comments.
k	5.2: The standard product of TERRE will only be the scheduled product. The ramps
i i	have to be considered while developing the relation of BRP and BSP within the biding
1	ones. The market conditions within the bidding zones must be designed in a way to
! !	ninimize negative impacts on the TERRE participation.
Stake-	
holder 12 N	Not Answered
Stake-	
holder 13 N	Io further comments
Stake-	
holder 14 '-	
1	5.2: The standard product of TERRE will only be the scheduled product. The ramps
! !	nave to be considered while developing the relation of BRP and BSP within the biding
i i	ones. The market conditions within the bidding zones must be designed in a way the
: :	ninimize negative impacts on the TERRE participation. 5.4: For a coherent Imbalance
i i	Price calculation, the price for the entire hour (60 min) should be based on marginal
1 1	pricing. Rather than calculating a weighted average cost, the Imbalance Price of the
Gillion Stake-	lifferent 15 min should be combined using a marginal pricing approach.
	Not Answered
}}	When congestions occur on TERRE borders, we believe that NRAs should consider the
1	edistribution of congestion rents to BRPs, e.g. by reducing cash-out prices. This
1 1	vould ensure a fair cost-allocation between the relevant market participants while
1	ensuring the financial neutrality of TSOs.
Stake-	
holder 18	
Stake-	
holder 19 N	lo.
i i	he consultation documents states that the marginal price will be applied to the XB
	palancing energy exchanges. At the same time the document does not describe if im-
1 1	licitly the local (Italian) pricing rule will change from the current Pay As Bid to Sys-
t	em Marginal Price. For markets with Pay as Bid, it is important to understand how
! !	offers will be considered, in particular if different offers should be sent for TERRE and ocal products. Due to the impact on the market participants and on the system of

r	
	any change in the dispatching service market pricing rule, we think that it is not suffi- cient to consult such an important change in a XB pilot project consultation; instead a specific consultation at Italian level should be organized.
Stake-	Marginal Price choice (par. 5.1):
holder 21	
	it is stated that the marginal price will be applied to the XB balancing energy ex- changes. Does this imply that the local (Italian) pricing rule will change from the cur- rent Pay As Bid to SMP? Due to the impact on the market participants and on the sys- tem of any change in the dispatching service market pricing rule, we think that it is not sufficient to consult such an important change in a XB pilot project consultation; instead a specific consultation at Italian level should be organized.
	Elastic Imbalance Needs (par. 5.3) We would not support any possibility for TSOs to submit elastic bids/offers to the
	Common Merit Order. Imbalance Need should be submitted as a fixed volume, with- out price.
Stake- holder 22	We believe that, given the co-existence of different national settlement methods among the project's parties (as referred to in 5.2), it is of utmost importance for mar- ket operators to clearly understand if and how this mechanism would affect national settlement methods without bringing on distortionary effects on the respective mar- kets (i.e. how would the TSO-TSO marginal pricing be reflected in pay-as-bid mar- kets).

6 Cost Benefit Analysis

6.1 **Q 6.1** What are your views on the methodology used and assumptions made in the Cost Benefit Analysis?

Stake-	
holder 1	We miss completly the value of security of supply
Stake-	There would be necessary much more detailed information to assess the methodol-
holder 2	ogy, but the assumptions explained in the chapter 6 sounds reasonable and also the definition of the counter-factual scenario.
	In the case of Spain, it is not clear in the document if the simulations take into ac- count the Management of Deviations Market, so the results given for the base case could be non-realistic.
Stake-	
holder 3	Not Answered
Stake-	
holder 4	
Stake- holder 5	In our opinion the input data for the analysis is not repretative of the foreseeable sit- uation when the mechanism starts to run. The CBA is based in just one year data (2013) and the offers considered are the ones that providers presented considering ther national regulation at that moment, in cases with very different price formation mechanisms, and even Pay as Bid markets.
	Additionally, several changes have ocurred since then and may continue to occur. For

	example, in Spain renewable technologies are now taking part of the balancing mar-
	kets.
Stake- holder 6	The cost benefit is always going to be limited by looking at fixed data under the exist- ing regime and doesn't take account of behavioural changes which could occur. A sig- nificant omission of the analysis is that it looks at cost implications on TSOs centrally and in the local market, but does not consider the cost implications and knock on ef- fects on local balancing markets, nor on the costs of participants' systems and pro- cesses in dealing with these new arrangements. Experience in GB suggests significant changes will be needed in local balancing and settlements arrangements to accom- modate the project.
	Further details are needed to assess the conducted CBA and challenge the results.
Stake- holder 7	We have the following concerns regarding the assumptions made for the Cost-Bene- fit Analysis:
	• In particular for the UK and France – but also more general – our questions on how the current bids into the balancing markets have been translated into 'equivalent' bids for the TERRE platform. The current organization of the balancing markets is far removed from the bidding of a Standard Product in the TERRE platform. For example, in the UK, unit characteristics and prices are transmitted (i.e. implicit offers) from which National Grid selects an optimal combination of technical characteristics and prices. How this process is converted into explicit offers for the Standard Product is unclear and should be further explained. Any underlying assumptions – both from a technical as market perspective – may have a large impact on the outcome of the Cost-Benefit Analysis.
	• It is unclear how local rules are treated and what level of harmonization is as- sumed. These are important assumptions to correctly interpret the impact on BRPs and BSPs that are reflected in figures 6-12 and 6-13.
	• The exclusion from the French data of the hydraulic pumped energy transfer sta- tions (STEP) casts doubts on the results obtained for France. As acknowledged on page 88, they cover a large volume of activation of balancing in France and will thus likely distort the results quite significantly. France has indeed results in the CBA that seem to deviate from the other countries. This impact should thus be better ex- plained in the general conclusions, but preferably the volume should be included in the CBA either in a way that this volume could be expected to participate in the fu- ture or through the introduction of an equivalent volume.
	• The calculation of the costs does not provide any details making it hard to assess its validity. In any case, market parties will also have to make costs to adapt to the implementation of the TERRE project, which are currently not included in the CBA. A change to a hourly, explicit bidding process may require substantial changes to the current operational processes. This should be correctly reflected in the CBA.
Stake-	
holder 8	No comment
Stake- holder 9	Please see answer to question 7.4.
Stake-	We believe it is complex to isolate the costs and benefits of the exchange of RR on
holder 10	the one side, and that of other changes in the balancing market design, either at lo-
	cal, regional or European level. For instance, the CBA should clarify what portion of the suggested benefits can be attributed to the introduction of an imbalance netting

	process or the harmonisation of local changes in market design (e.g. harmonisation
	of GCTs, shortening of ISPs), and which benefits can be directly attributed to the join
	RR procurement.
Stake-	• We have not enough information and time to properly answer the questions on
holder 11	cost benefit analysis. The involved experts should express their confidence and
	doubts. At least we have some doubts on French numbers, as imbalances in France
	seem generally quite small compared to the numbers of Switzerland and Italy as well
	as the ones of the other countries.
Stake-	
holder 12	Not Answered
Stake-	The assumption of running twice the same model and changing only the boundary
holder 13	conditions (ATC) is reasonable. It is unclear how the harmonization of local rules and
	pricing is modeled in the simulation tool developed. Thus the absolute values pre-
	sented in chapter 6 are associated with non-negligible uncertainties.
Stake-	
holder 14	l
Stake-	The assumption of running twice the same model and changing only the boundary
holder 15	conditions (ATC) is reasonable. For us it is unclear how detailed and precise the har-
noider 15	monization of local rules and pricing is modeled in the simulation tool developed dur
	ing the design phase. Additionally, at present XB exchanges are already functional
	(BALIT, MDA) and there consideration for the CBA is not clearly mentioned in the
	consultation document. Thus the absolute values presented in chapter 6 are associ-
	ated with non-negligible uncertainties. We have not enough information and time to
	properly analyze the results cost benefit analysis. The involved experts should ex-
	press their confidence and doubts.
Stake-	
holder 16	Not Answered
Stake-	
holder 17	See the answer to question Q 6.2.
Stake-	
holder 18	Not Answered
Stake-	We believe that there is merit in developing cross border arrangements for regulat-
holder 19	ing reserve and the methodology and assumption re a reasonable basis for this type
	of analysis.
Stake-	In principle, we agree with the general methodology presented by ENTSO-E. At the
holder 20	same time, we would like to point that a simulation of one year is too short in order
	to compare costs and benefits. In addition, benefits should consider a confidence in-
	terval as the one requested to market participants in the CBA on ISP harmonization
	because the methodology mixes data from very different balancing markets, some
	operating pay-as-bid, others marginal pricing; some with unit based bidding and oth-
	ers with portfolio based bidding. Finally, the analysis should also make sure that com
	mercial available cross-border capacities used in the study are in line with physical
	available cross-border capacity in order to avoid considering transaction that are un
	feasible.
	On the analysis of costs, we would like to point out that the same platform introduce
	for TERRE could be used in the future for the introduction of more valuable products
	for the balancing of the system, for example RR capacity.
Stake-	
holder 21	Not Answered
Stake-	
holder 22	
	Page 54 of 96

Stake-	
holder 1	see above: incomplete
Stake-	The assessment of the results it's a very difficult task.
holder 2	
	In the Spanish case, for example, the evolution of GCT from H-4 to H-1 will change
	the volumes of balancing energy and the remaining ATC for balancing markets.
	We accept that it's not easy to simulate the behavior of market participants but on
	the other hand, we cannot use the historical data as a fair representation of this new
	scenario.
Stake-	
holder 3	Not Answered
Stake-	
holder 4 Stake-	
Stake- holder 5	
Stake-	
holder 6	N/A
Stake-	We believe in the integration of the European electricity markets, including the bal-
holder 7	ancing markets. Implemented correctly, it provides new opportunities and efficien-
	cies. It is thus no surprise to us that the TERRE project would have a positive, eco-
	nomic impact. However, there are still questions concerning the obtained results:
	• Referring to our comments on the assumptions, it is unclear how robust the results
	are with regard to assumptions on the conversion of current bids into Standard Prod-
	ucts for TERRE or the exclusion of part of the French balancing volume.
	• It is unclear what exactly is reflected in these costs, as for example Greece is (at
	least partly) driven by counter-activations and the lack of an Intraday market. What
	fraction of the results is due to (divergent) market specificities and what fraction is
	actually the result of the implementation of the TERRE project?
	• It is unclear how counter-activations are included in the results: are they a benefit
	to BSPs (i.e. an increase in payment to BSPs), and if so, how come that the TERRE pro-
	ject would result in a reduction of BSP benefits in for example Greece, where the
	market would be driven by counter-activations?
Stake-	
holder 8	Seemed logic to us
Stake-	
holder 9	Please see answer to question 7.4.
Stake-	More detailed information to assess the methodology would be welcome, but the as-
holder 10	sumptions explained in Chapter 6 and the definition of the counter-factual scenario
	look reasonable.
	Much more complex is the assessment of the results and their validity for 2018. In
	the Spanish case, for example, the evolution of GCT from H-4 to H-1 will change the

6.2 Q 6.2 What are your views on the results of the Cost Benefit Analysis?

	volumes of balancing energy and the remaining ATC for balancing markets. We un-
	derstand it is complex to simulate the future behaviour of market participants, but
<u>.</u>	the use of historical data in this case is misleading.
Stake-	
holder 11	
Stake-	
holder 12	Not Answered
Stake- holder 13	The CBA should be dealt as a tool to assess the potential benefit of coupling the dif- ferent Replacement Reserve markets. Its results are an indication of the impact of TERRE on the BSP activations, on the BRP costs and on the balancing prices per coun- try. They are meant to show us the expected direction of TERRE's impact. The calcu- lated benefits of 150 Mio EUR should be communicated in combination with an un- certainty which is in our opinion not insignificant
	The published results that can be summarised as reduction of activations, reduction of BRP costs, reduction of upward marginal prices and increase of downward mar- ginal prices can be justified by the netting of the TSO's needs and by the utilization of the cross border ATC.
Stake-	impact on brp's: why is France not saving more money on implementing terre ?
holder 14	Upward imbalances in France in MWh seem to be quite low (level of switzerland!) only ten times less than italy and spain? half of portugal? what datas are that? in our
	opinion hard to believe to be realistic.
Stake-	The costs of 25-30 Mio EUR cannot be commented. However, the modeled benefits
holder 15	of 150 Mio EUR should be communicated in combination with an uncertainty which
	is in our opinion not insignificant.
Stake-	
holder 16	Not Answered
Stake-	We believe that further details are necessary on the assumptions used in the CBA to
holder 17	identify generation and consumption units which will be used by BSPs to make bids in TERRE. This additional information is important in order for stakeholders to evaluate whether the impacts and benefits of the TERRE project envisaged in the analysis are realistic.
	In particular, we are surprised by the significant increase of the balancing activations in France (more than x3) presented in the analysis. At present, we, which is a large market participant in France, are unable to quantify in a precise way the volumes that would be made available in the form of the standard explicit offers required by TERRE. Indeed, this quantity will mostly depend on the local TSO-BSP arrangements mentioned in the previous sections (see Q3.3). Therefore, we wish to know the de- tailed assumptions used in the CBA regarding its own generation units.
	Furthermore, in order to assess the capability of the current power generation fleet to face the challenges related to the participation in the TERRE project, BSPs should be aware not only of the increase of the activated volumes but also on the expected number of additional activations, in order to assess whether these activations are compatible with physical constraints.
	As regards costs, we ask for further details on the coverage and allocation of the €25- 30 million cost estimate for the implementation of TERRE by the TSOs. Moreover, the costs incurred by BSPs to update processes and IT systems should also be factored in the calculation of the total costs of the project (a detailed quantification of these

	costs by BSPs will be possible only when local implementation arrangements will be available), as they are an integral part of the total cost of the project for the electric-
	ity system.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	No comment.
Stake-	
holder 20	See answer to question 6.1
Stake-	
holder 21	Not Answered
Stake-	
holder 22	

6.3 Q 6.3 Do you think the conclusions of the Cost Benefit Analysis are valid for the expected market in 2018?

Stake-	
holder 1	Νο
Stake- holder 2	In line with our comments in the answer to question 6.2, we have serious doubts about the validity of the results for 2018.
	Results for 2018 will depend on the evolution of ATC level, which in the case of Spain has duplicated in 2015, the development of the continuous intraday market, which again in the case of Spain will include the current Management of Deviation market that will disappear when ID GCT gets H-1, and the participation of RES in balancing markets, also recently approved in the case of Spain.
Stake-	
holder 3	Not Answered
Stake-	
holder 4	
Stake-	
holder 5	
Stake-	
holder 6 Stake-	They are limited due to the issues stated above. We do not agree with the interpretation of TERRE project partners on the ability to
holder 7	reserve cross-border capacity for the purpose of exchanging balancing energy (point 3 of sub-chapter 6.4). The reservation of cross-border capacity is – in the current ver- sion of the NC EB as published by ACER - only possible for the exchange of balancing capacity and sharing of reserves. Any use of cross-border capacity for exchange of balancing energy can only be performed using capacity available after the cross-bor- der intraday or cross-border transmission capacity reserved to exchange balancing capacity, as stated in Art. 50. As the TERRE project is – currently – only covering the exchange of balancing energy, we do not agree with the interpretation that addi- tional ATC could be available to the TERRE project by reserving cross-border trans- mission capacity.
Stake-	
holder 8	We think the results would be very similar
Stake- holder 9	Please see answer to question 7.4.

Stake-	
holder 10	See our response to question 6.2.
Stake-	
holder 11	• This can not be answered seriously. The CBA just gives an indication.
Stake-	
holder 12	Not Answered
Stake-	The financial conclusions of the CBA can be used as an indicator for 2018. It is cer-
holder 13	tainly not anticipated that the market results of 2018 will be identical to the ones of the CBA.
	The reasons mentioned in Article 6.4 like the change in bidding behaviour, changes i imbalance volumes and changes in balancing ATCs, together with the different wholesale price level of 2013, compared to our expectation of 2018, don't allow us t make safe estimations on the expected TERRE results.
Stake-	
holder 14	Hard to anticipate the market behavior with TERRE implemented.
Stake- holder 15	We agree with the conclusion that the actual impact of TERRE, when the project goe live, will differ from the CBA results. We would have appreciated a more elaborated analysis of the uncertainties.
Stake-	
holder 16	Not Answered
Stake-	We believe that the conclusions of the CBA should be reviewed taking in due accour
holder 17	additional elements:
	- Regarding costs, the implementation costs incurred by BSPs should be taken into a count in addition to the costs borne by TSOs;
	- Concerning benefits, the CBA shows that France plays a key role in balancing energy cross-border exchanges, given its central position as well as its generation mix. Nev- ertheless, we already identified the existence of technical constraints which can limit the ability of French market participants to make available through explicit offers all the capacity currently offered through implicit offers. Hence, the integration of thes constraints could have a very significant impact on the result of the CBA.
	We also wish to underline that substantial evolutions of the generation mix in Europare ongoing, reflecting the evolution of electricity markets' conditions. Therefore, the power generation fleet in 2018 may significantly differ from the one of 2013 considered in the analysis. Moreover, the increasing participation of DSR in balancing markets will have an impact on the evolution of the mix of technologies used by BSPs to make balancing bids.
	Thus, we consider that the assumptions used in the CBA should be more detailed an additional work is required in order to improve the reliability of the results of the analysis.
Stake-	
holder 18	Not Answered
Stake-	The results appear to make a case for implementation in 2018, subject to the delive
holder 19	of the appropriate rules and IT systems.
Stake- holder 20	On the qualitative assessment of TERRE project in 2018 we would like also to point out that:
	1. The change from pay as bid to pay as clear will not change market prices, as it has
	Page 58 of 96

	been shown by the economic literature
	2. On the issue of imbalance volume, the analysis should take into account opposing factors. Available interconnection capacity near real time will be reduced if some bidding zone will move towards intraday continuous trading with gate closure near time of delivery. On the contrary, the deployment of variable RES could result in an increase of imbalances.
	3. Reservation of interconnection capacity could be detrimental for total social wel- fare, in fact the reduction of interconnection capacity in day-ahead and intraday could reduce price convergence and price discoverability.
Stake-	
holder 21	Not Answered
Stake- holder 22	

6.4 Q 6.4 Do you have specific comments regarding chapter 6 content? (Please indicate sub-chapter reference when possible)

Stake-	
holder 1	see above
Stake-	
holder 2	No more comments.
Stake-	
holder 3	Not Answered
Stake- holder 4	As some TSOs will have balancing settlement and imbalance settlement systems and arrangements 'in house', presumably those costs will have been included in the local IT costs quoted for TERRE in section 6.2. However, in GB, we are not a TSO, take re- sponsibility for those aspects and we imagine that our costs arising from TERRE have not been included in the Cost Benefit Analysis. However, we also imagine it is un- likely that our costs would change the end conclusion.
Stake- holder 5	
Stake-	
holder 6	N/A
Stake-	
holder 7	We have no further comments on this chapter.
Stake-	
holder 8	No comment
Stake- holder 9	We acknowledge that the CBA is a challenging task and we welcome the significant effort made by the project team. We advocate further evolutions of this CBA: - Refinement with the final design options and periodic assessment.
	- Inclusion of recent past years (not only 2013), for instance 2014 and 2015.
	- More detailed assumptions.
	- Simulation of scenarios. For example, regarding the changes in bidding behavior.
	- Deep analysis of the Spanish case (for example, maybe some future regulatory

	changes in the intraday markets could lead to different results)
	We suggest the setting up of a task force focused on this matter, involving stakehold- ers, with access to the full detail of the CBA.
Stake-	
holder 10	We do not have further comments.
Stake- holder 11	 Intraday trading has continuously grown since 2013 helping self-balancing On the other hand growing RES might have grown imbalances in the involved countries. It seems quit difficult to evaluate all impacts and to extrapolate them on 2018.
	 Reservation of CB capacity for balancing shall not reduce intraday trading volumes!
Stake-	
holder 12	Not Answered
Stake- holder 13	In Article 6.2 it is unclear how the costs of TERRE will be allocated among the partici- pants.
	In Article 6.4.2 it is mentioned that there are increased incentives on BRPs to be bal- anced (presumably in comparison to 2013). It is unclear to us if there is a coordinated effort of the involved TSO's to give incentives for self-balancing to the BRPs by providing the appropriate price signals. A harmonization of the imbalancing schemes within the TSO's involved in TERRE would be helpful.
	In Article 6.4.3 the possibility to reserve XB capacity by TSOs for the purposes of ex- changing balancing energy is described. This possibility is given to the TSOs by the GL EB. We generally think that withholding capacity from previous market segments for an optional use in TERRE is something that should be used only in extreme situations and would have, therefore, no significant impact on TERRE. In any case a transparent communication of the TSO is required.
Stake-	
holder 14	'
Stake- holder 15	• 6.1: For the CBA marginal pricing has been applied in all bidding zones. Thus the an- nual benefit of 150 Mio EUR communicated in the conclusion cannot be related to the actual system.
	• 6.2: How are the costs of TERRE allocated among the members?
	• 6.4. In case of reservation of XB capacity for exchanging balancing energy a transparent communication by the TSO is required and should be used only in extreme situations.
	• Reservation of XB capacity for balancing shall not reduce intraday trading volumes
Stake-	······································
holder 16	Not Answered
Stake- holder 17	Paragraph § 6.4-2 suggests that increased incentives on BRP to be balanced will re- sult in a reduction of the volume of residual balancing performed by TSOs. We wish to highlight that the main lever to reduce TSOs balancing need is to speed up the communication of information on BRPs imbalances. For BRPs, a fast communication stream is essential for accurate forecasts which are a necessary condition to contrib- ute to a reduction of TSO's balancing need.
Stake- holder 18	Not Answered

Stake- holder 19	No comment.
Stake- holder 20	
Stake- holder 21	Not Answered
Stake- holder 22	Overall, the proposed CBA is excessively focused on "static effects" and does not take into consideration any dynamic effect potentially arising from TERRE's deployment. An extended analysis could be useful to better focus the expected results. Moreover, the absence of any analysis regarding national-specific effects linked, for example, to different TSO-BSP settlement methods, significantly undermines the CBA itself.

7 Timing

7.1 Q 7.1 What are your views on the reduction of XB scheduling step for balancing?

Stake-	It is difficult to answer because we have no news from our TSO (see 7.2.5 (the de-
holder 1	scription of the procedure for the activation of the local unit is out of the scope of
	this document and is the responsibility of each TSO). The situation is not clear.
	For us is interesting the reduction of the XB Scheduling Step and the consequent in-
	crease of the transacted balancing volumes through TERRE.
Stake-	It is enough with an hourly scheduling step, mainly because for most TSO imbalance
holder 2	needs are easy to assess in an hourly basis, allocating local products inside the 1-hour
	period if necessary. Anyway, we don't see any problem in using a 15-min scheduling
	step.
Stake-	
holder 3	Not Answered
	Not Answered
Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
Stake-	We are in favour of any increase in the granularity of the cross-border scheduling
holder 7	step, given that it is implemented for both the Intraday and Balancing timeframe.
	BRPs should have a similar ability to self-balance their perimeter as TSOs have to
	solve any residual imbalances.
Stake-	
holder 8	We agree
Stake-	
holder 9	Please see answer to question 4.1.
Stake-	We are in favour of increasing the granularity of the cross-border scheduling step,
holder 10	given that it is implemented for both the intraday and balancing timeframes.
Stake-	Activation duration and XB scheduling should have identical time resolution. A har-
holder 11	monization simplifies the calculation algorithm and increases the transparency. Thus
	if activation duration of 15 min are accepted in TERRE, the XB scheduling must be
	adapted accordingly.
L	·

· · · · · · · · · · · · · · · · · · ·	
Stake-	
holder 12	Not Answered
Stake-	Reducing the XB scheduling step (from 1 hour to 15 minutes) so that it will have the
holder 13	same resolution with the minimum activation duration (15 minutes) is a prerequisite
	for the increase of the balancing volumes through TERRE and a higher efficiency.
	Therefore we support any initiatives between the involved TSO's to reduce the XB
	scheduling step between them.
Stake-	
holder 14	one hour scheduling step seems to be ok for a start
Stake-	We think that activation duration and XB scheduling should have identical time reso-
holder 15	lution. A harmonization simplifies the calculation algorithm and increases the trans-
	parency. Thus if activation duration of 15 min are accepted in TERRE, the XB schedul-
	ing must be adapted accordingly
Stake-	
holder 16	Not Answered
Stake-	We are in favour of a progressive approach to the reduction of XB scheduling steps. A
holder 17	reduction to a 30 minutes scheduling step could be initially adopted, when compati-
	ble with national scheduling and ISP arrangements.
	As this development will impact BSPs and BRPs processes and IT systems, a timely
	communication on the roadmap for the implementation of these changes is neces-
	sary.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	We recognise that the local constrains require an XB step for scheduling.
Stake-	As explained throughout the document and indicated in figure 7-2 pag. 55, the cur-
holder 20	rent XB scheduling step of 1 h adopted in most borders of TERRE region (including
	the Italian ones) involves that each TSO can satisfy only a part of its Imbalance Need
	(namely the hourly blocks) through XB products. In other words only local BSPs can
	satisfy the "quarterly blocks" of the Imbalance Need. This represents a strong barrier
	preventing the export of flexibility from one country to another, that would disad-
	vantage foreign BSPs. There must be a level playing field. Hence, we deem the adop-
	tion of a XB Scheduling Step of 15 minutes of outmost importance before the TERRE
	project goes live.
	At the same, it must be noted that a shorter scheduling step require increased coor-
	dination of canacity calculation
Stake-	
holder 21	
Stake-	
holder 22	Not Answered
noiuer ZZ	

7.2 Q 7.2 What are your views on the interactions between the TERRE process and the XB intra-day market?

Stake-	
holder 1	We need a clearly separation between XB ID and TERRE flexibility market
Stake-	They are correct as referred in the document, opening the balancing market driven
holder 2	by TERRE after the closing of the intraday market, 1 hour before real time.

Stake-	
holder 3	Not Answered
Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake-	In general any reservation of transmission capacity should be avoided. Hence it
holder 6	should be ensured that XB-exchange of balancing energy does not reduce the availa-
	bility of transmission capacity for the XB-ID market.
	A crucial criterian to provent possible offects between ID and records market is to
	A crucial criterion to prevent negative effects between ID and reserve market is to have the TERRE CGT after the ID CGT. This would allow market participants to offer
	their capacity at the ID market and balance their portfolio first before submitting
	their bids to the reserve market.
Stake-	We agree that the GCT of the TERRE platform can only be after the cross-border In-
holder 7	traday has been closed. In this way, market parties can first exhaust all opportunities
	to balance and optimize their portfolio themselves. Only after this last cross-border
	market has been closed, can market parties choose to offer any remaining capacity to
	the TERRE platform.
	A point of attention for us is the limited time that will be available to market parties
	to optimize and finalize their bidding between the closure of the cross-border Intra-
	day market and the GCT of TERRE. This is especially a risk in case the XBID project has
	to take some time after the closure of the cross-border Intraday to resolve the open
	bids and offers, and since the TERRE tendering gate (which is currently not yet fixed
	at H-Xmin, but further away from real-time then H-45min) takes additional time. This
	would allow very – even too – little time (between a couple to 10 minutes) for mar-
	ket parties to submit or update their offers. We therefore ask that:
	• Stakeholders are kept involved in the further development of the exact timing of
	the TERRE processes between H-1 and real-time. This is also linked to the potential
	format(s) of the offers, as explained in question 3.6.
	• Some processes of the tendering phase – between H-Xmin and H-45min – are per-
	formed in parallel to the pre-tendering phase; specifically the calculation of the im-
	balance needs and the calculation/update of the ATC could be performed while mar-
	ket participants still submit or update their offers.
Stake-	We support the approach favoured by the TSOs of having the TERRE GCT after the
holder 8	closing of the intraday market. This would best allow market participants to adjust
	positions on the intraday market and improve its liquidity. We nonetheless remark
	the limit time given to BSPs to prepare and submit bids for TERRE between the intra-
	day GCT and the TERRE GCT. The exact timing of the TERRE GCT is not yet set (be-
	tween one hour and 45 minutes before real time). Considering the update of national
	schedules following the XBID computation process, this could mean an extremely
	short time that may make it difficult – if not impossible – for BSPs to adjust and sub-
	mit their bids.
	We understand there is no easy solution to this problem. We therefore request that:
	we understand there is no easy solution to this problem. We therefore request that:
	Market participants are kept involved in further developments on the exact timing
	of the TERRE processes between H-1 and real-time.
L	Page 63 of 96

- unc	
Stake-	project (e.g. SP-FR) and outside of the TERRE project (CH-DE). Potential future changes in intraday GCT have to be considered by TERRE, to guarantee this separation.
Stake- holder 15	We strongly support the actual concept of TERRE, of a clear separation of intra-day trading and TERRE activations. This concept has to apply to borders within the TERRE project (CLL DE). Retartial future
holder 14	should become closer to real time 30min to 15min before delivery.
Stake-	achieved. It is important that this feature is guaranteed not only for the TSOs partici- pating in TERRE but also for the ones of DE and AT. Intraday Gate should not close 90min before delivery. The oposite, intraday trading
	future, in case a further reduction of the XB intraday scheduling lead time is
noider 13	TERRE). This quality of TERRE is highly appreciated and it should be maintained in the
Stake- holder 13	TERRE project shows, in its current form, no overlap with the XB intraday markets of Switzerland and its neighbouring countries (including DE/AT that don't participate in
Stake- holder 12	Not Answered
	• Harmonizing TERRE and Intraday Trading approach with Germany seems quite a challenge and a point to check the whole approach. At the moment we see no inter-ferences.
holder 11	day trading and TERRE activations. This concept has to apply to borders within the TERRE project (e.g. SP-FR) and outside of the TERRE project (CH-D). Potential future changes in XB lead time have to be considered by TERRE, to guarantee this separa- tion.
Stake-	 Some processes of the tendering phase – between H-Xmin and H-45min – are performed in parallel to the pre-tendering phase; specifically the calculation of the imbalance needs and the calculation/update of the ATC could be performed while market participants still submit or update their offers. We strongly support the actual concept of TERRE, with a clear separation of intra-
	• Market participants are kept involved in further developments on the exact timing of the TERRE processes between H-1 and real-time.
	We understand there is no easy solution to this problem. We therefore request that:
	day GCT and the TERRE GCT. The exact timing of the TERRE GCT is not yet set (be- tween one hour and 45 minutes before real time). Considering the update of national schedules following the XBID computation process, this could mean an extremely short time that may make it difficult – if not impossible – for BSPs to adjust and sub- mit their bids.
holder 10	closing of the intraday market. This would best allow market participants to adjust positions on the intraday market and improve its liquidity. We nonetheless remark the limit time given to BSPs to prepare and submit bids for TERRE between the intra-
holder 9 Stake-	Please see answer to question 7.4. We support the approach favoured by the TSOs of having the TERRE GCT after the
Stake-	ket participants still submit or update their offers.
	formed in parallel to the pre-tendering phase; specifically the calculation of the im- balance needs and the calculation/update of the ATC could be performed while mar-
	• Some processes of the tendering phase – between H-Xmin and H-45min – are per-

Stake- holder 17	It is important that the interactions between TERRE exchanges and the XB intraday market ensure a smooth process for schedules' reviews, adaptation of offers and their activation in order to allow market participants to optimise their participation in energy and balancing markets (see Q 7.3 and Q 7.4).
	An hourly fixing, as scheduled for the go-live of TERRE, seems to be in line with this requirement. Yet, a change in the timing/rhythm of the process would require a new assessment (see Q 7.3).
Stake-	
holder 18	Not Answered
Stake-	TERRE should provide an efficient approach towards TSO balancing after gate closure
holder 19	for the XB intra-day market.
Stake-	The introduction of an intraday market with gate closure near real time reduces the
holder 20	needs and the possibility of applying TERRE. In fact, increased cross-border intraday trade can reduce not only imbalances and counter activations, but also interconnection capacity available for TERRE exchanges.
	Intraday market gate closure should be before Balancing market gate closure, over- lapping of these two should not be allowed
Stake-	
holder 21	
Stake-	
holder 22	Not Answered

7.3 Q 7.3 What are your views on the frequency of the clearing (one single clearing per hour)?

Stake-	
holder 1	According to the products
Stake-	
holder 2	One single clearing per hour is fine.
Stake-	
holder 3	Not Answered
Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake-	Overlaps between balancing and intraday markets should be avoided as well as a
holder 6	proper handover of information is achieved for operating local balancing markets and setting imbalance prices.
	If the delivery periods go beyond one hour the clearing should be consistent. This would reduce the clearing processes per day and thereby the administrative burden of market participants.
Stake-	Given the current schedule step of one hour, the proposed frequency of the clearing
holder 7	is logical. If the schedule step would be further reduced, the frequency of the clearing should be reconsidered to ensure that overlap between balancing and the (cross-bor-der) Intraday are avoided.
	However, it should be recognized that an hourly clearing – and potentially even more

r	
	frequent in the future – may be operationally intensive for market parties. To miti-
	gate this somewhat, the validity period of bids should not be limited to 60 minutes
	(see our response to question 3.2).
Stake-	The proposed frequency of the clearing is consistent with the current schedule step
holder 8	of one hour. If the schedule step would be further reduced, the frequency of the
 	clearing should be reconsidered to ensure that overlaps between balancing and the
	(cross-border) intraday market are avoided.
Stake-	
holder 9	Please see answer to question 7.4.
Stake-	The proposed frequency of the clearing is consistent with the current schedule step
holder 10	of one hour. If the schedule step would be further reduced, the frequency of the
	clearing should be reconsidered to ensure that overlaps between balancing and the
	(cross-border) intraday market are avoided.
	However, it should be recognised that an hourly clearing – and potentially even more
	frequent in the future – may be operationally intensive for market participants. To
	mitigate this somewhat, the validity period of bids could be extended beyond 60
	minutes, as referred to in our answer to question 3.2.
Stake-	• We belief that already a single clearing per hour is challenging enough to start
holder 11	TERRE.
Stake-	
holder 12	Not Answered
Stake-	A higher clearing frequency would lead to overlapping delivery periods with more
holder 13	than one marginal price for every 15 minutes. This would add to the operational
	complexity of TERRE and would make the BSP participation more challenging. Moreo-
	ver it would probably make the price signal to the BRPs less clear. The added value of
	such development, given the current 1 hour scheduling step, would also be doubtful.
	Therefore, we support maintaining the proposed clearing frequency.
	We would, nevertheless, be open to such a change in order to face the future chal-
	lenges of a reduction of the market time resolution or the intraday gate closure time.
Stake-	
holder 14	!
Stake-	At the current status of the project we belief that the efforts should be concentrated
holder 15	on a harmonization of the XB scheduling steps. Increasing the clearing process should
	be reconsidered in a later stage. We belief that already a single clearing per hour is
	challenging enough to start Terre.
Stake-	
holder 16	Not Answered
Stake-	We agree with the choice to start the implementation of TERRE with one single clear-
holder 17	ing per hour.
	We support further investigations on the opportunity to increase the frequency of
	clearings if this can improve the effective use of Replacement Reserve products. Nev-
	ertheless, such an evolution should be treated as a major change of the TERRE design
	requiring a new implementation plan. The increased frequency of clearing (e.g. two
	clearings per hour) would imply significant changes in BSPs' processes and could pos-
	sibly lead to additional time constraints requiring further analyses (see Q7.4 & Q14).
	In the case of two clearings per hour, our preliminary analyses point out possible
	time constraints due to the following problems:
	1

[
	- Activations from each half hourly clearing will impact the offers for the following half hourly clearing (some offers may not be available anymore, or some new offers may be available), resulting in the need for an additional time period before the next
	TERRE Gate Closure Time (GCT);
	- Activations from each clearing will also impact generation schedules to be updated at the next Intraday GCT (beyond lead time for changes), resulting in the need for an additional time period of about 10 minutes between the reception of activation or- ders and the next Intraday GCT.
	- As mentioned at Q7.4, a time period between Intraday GCT and TERRE GCT will also be needed (5 minutes minimum).
	If this timing is not granted, schedules feasibility and bids' firmness could not be guaranteed.
	The proposed evolution in terms of frequency of the clearing should also be con- sistent with the evolution in the number of gate closures in intraday markets.
Stake-	Net An environment
holder 18	Not Answered
Stake- holder 19	This is a pragmatic approach towards the initial delivery of TERRE but should remain under review.
Stake-	We agree with one single clearing per hour but we would like that ENTSO-E confirms:
holder 20	the number of prices and if there would be 4 prices and 4 volumes for each hour. In
	addition, it is important to clarify which price would be paid to BSP if they offered
	15', 30', 45', or 60' delivery period.
	In addition, we would like to have additional information on how would "linking of-
	fers in time" be treated in the price setting mechanism.
Stake-	
holder 21	
Stake-	
holder 22	Not Answered

7.4 Q 7.4 Do you have specific comments regarding chapter 7 content? (Please indicate sub-chapter reference when possible)

Stake-	
holder 1	
Stake-	
holder 2	No more comments.
Stake-	
holder 3	Not Answered
Stake-	Section 7.2.4 notes that TERRE Results will be communicated between H-35 and H-30
holder 4	minutes. Does this mean that local fall-back arrangements can be activated if TERRE
	Results are not received by H-30 minutes?
	It is important to have across TERRE agreement as to when 'late' TERRE results can be ignored by all the local arrangements and this needs to be harmonised to ensure

	that the money flows work correctly. For example, it will not work if one TSO is ex-
	pecting to be paid by TERRE and another TSO has ignored the TERRE results because
Challes	they arrived 'too late'. See also our answer to Question 4.4.
Stake-	Net Annuared
holder 5	Not Answered
Stake- holder 6	N/A
Stake-	The TERRE project has made a choice to use a Standard Product with a minimum de-
holder 7	Ine TERRE project has made a choice to use a standard Product with a minimum de- livery time of 15 minutes but a scheduling step of 1 hour. Linking bids allows market parties to offer a block of 1 hour that can be transferred cross-border and as such used for the cross-border delivery of RR as envisaged by the TERRE project. We ap- preciates the use of 15 minute product, as it is both future-proof for any changes to the scheduling step and allows for local use of shorter products. On the other hand, the fact that 15 or 30 minute products would currently not be eligible to be used for cross-border delivery of RR energy seems to be an inefficiency of the TERRE platform. We would therefore ask TSOs to analyse the possibility to combine two or more of- fers of a duration that is shorter than 1 hour into a 1 hour block so the energy could be delivered cross-border in line with a schedule step of 1 hour. We acknowledge that this may further increase the complexity of the algorithm with a potential impact on the required timing. However, the opportunities offered by such combination should be weighed against the impact on the timing, and the results of such analysis
	presented transparently.
Stake-	
holder 8	No other comments
Stake- holder 9	Certain key parameters of the project (X, duration of the clearing) are not decided yet. They should be consulted in the context of the TERRE project, despite of further harmonization actions will be taken in the context of the GL EB. Please see answer to Q 0.
	Pre-tendering phase: H-X should last 15 minutes at least.
	Tendering phase:
	- Each TSO should inform BSPs in real time whether their offers shall be considered as "unavailable" in TERRE (see subchapter 3.1.4.1).
	- We wish to know how "XB Bilateral Agreements" participate in the identification of available tenders, as showed in the graph of chapter 8.
	Clearing phase:
	- The algorithm takes into account "offers and Imbalance Needs, the ATC, require- ments and other constraints". Are "other constraints" those listed in subchapter 4.3.2?
	- We think that the reduction of the duration of the clearing phase would be a posi- tive target for expanding the pre-tendering phase. No further details are given in the document about the factors contributing to this potential reduction.
	Results communication and verification phase: NTC should be maximized in order to maximize Residual ATC.

Stake-	
holder 10	We do not have further comments.
Stake-	• A BSP gets activated on the last 15 minutes of an hour (starting at H+45min). When
holder 11	does it receive the activation from the TSO? At H-30min or at H+15min?
Stake-	
holder 12	Not Answered
Stake- holder 13	7.2.1: The Pre-Tendering phase between H-60 min and H-x min corresponds to the time between the GCT and the submission of the TERRE bids. As we understand x will be between 60 min and 45 min. The handling of the intra-day trades and the assessment of the available capacity of TERRE has to be computed in a rather short time frame.
	7.2.3: The fallback procedure is as described in 4.2.8 the procurement and activation of balancing energy at national level. A precise reference is necessary in this sub- chapter
Stake- holder 14	how does the communication take part ? activation price can be different to offer price as well as for the quantity (=divisible offer).
	who does the border-nomination if offer is in switzerland and the activation is needed in spain ?
Stake-	• 7.2.1: The Pre-Tendering phase between H-60 min and H-x min corresponds to the
holder 15	 time between the GCT and the submission of the TERRE bids. As we understand x will be between 60 min and 45 min. The handling of the intra-day trades and the assessment of the available capacity of TERRE has to be computed in a rather short time frame. 7.2.3: The fallback procedure is as described in 4.2.8 the procurement and activa-
	tion of balancing energy at national level. A precise reference is necessary in this sub-
Stake-	chapter.
holder 16	Not Answered
Stake-	•
holder 17	The proposed TERRE timeline does not provide enough detail on the deadlines con- cerning the interactions between BSPs and TSOs during the TERRE process. The defi- nition of these deadlines, e.g. the RR balancing energy GCT, seems to be postponed at a later stage. Yet, we believe that these additional specific deadlines should be rapidly set in order to accelerate the participation of BSPs in TERRE by enabling them to start without delay the adaptation of their processes. In particular we suggest to address the following issues:
	- Following Intraday Gate Closure Time, a time period (5 minutes minimum) will be necessary to compute and submit standard bids, following the changes of units' schedules and before the RR balancing energy GCT (H-X). If this period before the RR balancing energy GCT is not granted, the limited time allowed for scheduling and market would result in additional constraints for the participation in intra-day and balancing markets. It is therefore essential to specify the "H-X" deadline presented in the timeline (see §§ 7.1 & 7.2.1).
	- The activation process is not described and this is a major issue for us, as the results of the CBA show a significant increase of balancing activations in France. To ensure the actual delivery at H, activation orders from TSO must be received no later than H- 30'.

Stake-	
holder 18	Not Answered
Stake-	
holder 19	No comment.
Stake-	
holder 20	
Stake-	Cross Border Scheduling Step (par. 7.3.1):
holder 21	
	as explained throughout the document and indicated in figure 7-2 pag. 55, the cur- rent XB scheduling step of 1 h adopted in most borders of TERRE region (including the Italian ones) involves that each TSO can satisfy only a part of its Imbalance Need (namely the hourly blocks) through XB products. In other words only local BSPs can satisfy the "quarterly blocks" of the Imbalance Need. This represents a strong barrier preventing the export of flexibility from one country to another, that would disad- vantage foreign BSPs. There must be a level playing field. Hence, we deem the adop- tion of a XB Scheduling Step of 15 minutes of outmost importance before the TERRE project goes live.
Stake-	
holder 22	Not Answered

8 TERRE Platform - High Level Functional Architec-

ture

8.1 **Q 8.1** Do you have specific comments regarding chapter 8 content? (Please indicate sub-chapter reference when possible)

Stake-	
holder 1	no
Stake-	
holder 2	No specific comments.
Stake-	Compared to day-ahead and intraday time frames, TERRE time frames approach near
holder 3	real-time windows. This coupled with a large geographical area opens up perfor- mance implications for rapid clearing, publication and exchange of data between the entities – TERRE, BSP, TSOs, etc. The common solution should be a proven platform for meeting such challenges.
Stake- holder 4	We note from Figure 8-1 that the TERRE Settlement Module has no outputs and the TERRE Platform High Level Functional Architecture therefore covers only the system operation aspects of TERRE.
	All the post-event settlement aspects (billing and money flows and their timing) will need to be defined as part of the TERRE project and communicated to us so that we can fulfil our remit to operate the balancing and imbalance settlement arrangements in GB, including invoicing BSPs for moneys owed to TERRE TSOs.
	The most important questions from our GB balancing and imbalance settlement per- spective for TERRE to answer are:
	• What is the Gate Closure Time for BSPs to submit TERRE Product Bids to local TSOs?

	
	 What is the agreed TERRE treatment of ramps?
	 When are the TERRE Product acceptances, including volumes and clearing prices, made known to us so that we can calculate the GB imbalance price?
	• When are TERRE results deemed to be 'late' or 'missing', so that later data from TERRE for that particular 15 minute period can be ignored by the TERRE TSOs (and no dispatch will be required and no payments are required to be made to or from TERRE in respect of that 15 minute period)?
	• Are the TERRE Product submissions made available for publication on local infor- mation platforms, such as the one we administer and, if so, when?
	• Are the GB TERRE Product acceptances made available for publication on local in- formation platforms such as the one we administer and, if so, when? (See also our thoughts in answer to consultation Question 11.1.)
	• When are the payment details for TERRE Product acceptances issued (it is possible that we may be tasked with making settlement to the GB BSPs)?
	 When are the TERRE Product acceptances settled, i.e. how many days after ac- ceptance are payments due in respect of those acceptances?
	 What happens if a party (TERRE TSO or a TERRE BSP for example) defaults on its TERRE payment obligations? How is settlement then managed? I.e. what are the TERRE default and credit arrangements?
	• Will TERRE do any recalculations of payments, clearing prices, etc. and, if so, under what circumstances? Will there be planned reconciliations (recalculation and payments for the same billing period later) and if so, on what timetable and will interest be applied to payments that are due and have been recalculated?
Stake-	
holder 5	Not Answered
Stake- holder 6	N/A
Stake-	N/A
holder 7	We have no comments on this element.
Stake-	
holder 8	No comment
Stake-	
holder 9	Please see answer to Q 7.4.
Stake-	
holder 10	We have not have further comments.
Stake-	
holder 11	No comment
Stake- holder 12	Not Answered
}	Not Answered
Stake- holder 13	No further comments
Stake-	
holder 14	'
	L

a. 1	
Stake-	The high level description does not allow to make specific comments or remarks on
holder 15	the Functional Architecture of the TERRE platform.
Stake-	
holder 16	Not Answered
Stake- holder 17	We do not have specific comments on this chapter, but we invite you to refer to the answer to question 7.4 regarding our position on the timeline of the TERRE process (RR balancing energy GCT, activation timing, etc.) and to the answers in section 3 re- garding the bidding format proposed by TSOs.
	We also wishes to highlight the importance to make available sound fall-back proce- dures at national level when the TERRE clearing process fails.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	No comment.
Stake-	
holder 20	We don't have any specific comment from the one already described above
Stake-	
holder 21	Not Answered
Stake-	
holder 22	Not Answered

9 Available Transmission Capacity

9.1 **Q 9.1** Do you agree with the proposed methodology for the calculation of available transmission capacity used by TERRE solution for both AC and DC borders? If not, what would be your proposal?

Stake-	
holder 1	For DC yes. For AC we should consider the flexibility of PST's.
Stake-	
holder 2	Yes, we do.
Stake-	
holder 3	Yes
Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
Stake- holder 7	We would like to clarify the distinction between AC and DC borders. The proposed methodology for the calculation of ATC for DC borders, with the use of a pre-defined maximum ramp rate, is only acceptable for DC links between two distinct synchro- nous zones and when defined by the technical capabilities of the DC link itself. In this regard, the cited example of the IFA cable is acceptable. However, for DC links within a synchronous zone, as for example between Spain and France, any limit on the ramping rate should be grounded in technical or dynamic grid constraints. This im- plies that for such borders no pre-defined maximum ramping rates should be used as they may vary depending on the prevailing state of the grid.

Stake- holder 8	No comment
Stake-	We support no cross-border reservation for TERRE.
holder 9	
	Regarding ramping constraints in DC links, the CBA should show their effects, and pe
	riodic assessment shall be performed and published, as they constitute a hinder in
	the optimization in the reserve exchange. Ramping constraints could never affect th
	bids of the BSPs, as they are exogenous constraint for them.
	TERRE ATC should be maximized regarding the NTC available.
Stake-	Regarding the proposed methodology for the calculation of ATC at DC borders, we
holder 10	would like to stress that the use of a pre-defined maximum ramp rate is only accept
	ble for DC links between two distinct synchronous zones if such ramp rates are de-
	fined by the technical capabilities of the DC link itself. It would not be acceptable if
	system ramping constraints were translated in a ramp rate for the DC link.
	In this regard, the cited example of the IFA cable is acceptable. However, for DC link
	within a synchronous zone, as for example between Spain and France, any limit on
	the ramping rate should be justified by technical or dynamic grid constraints. This in
	plies that for such borders no pre-defined maximum ramping rates should be used a
	they may vary depending on the prevailing state of the grid.
Stake-	
holder 11	No comment
Stake-	
holder 12	Not Answered
Stake-	
holder 13	No further comments
Stake-	
holder 14	1
Stake-	We agree with the proposed methodology for the calculation of available transmis-
holder 15	sion capacity used by TERRE for both AC and DC borders. A prerequisite is that the
	methodology should be in line with already used procedure to calculate available
	transmission capacity.
Stake-	
holder 16	Not Answered
Stake-	We suggest to clarify that the Available Transfer Capacity (ATC) after the intra-day
holder 17	market used for cross-border exchanges in the framework of TERRE is bilaterally cal
	culated by the concerned TSOs for each border and does not apply to single AC links
	as in the case of DC links.
	Moreover, we believe that transparency and solid justifications should be provided
	by the concerned TSOs when imposing predefined maximum ramp rate to power
	flow variations on direct current interconnectors. For instance, 100 MW/min on IFA
	corresponds to 1000 MW, taking into account the duration of the -5/+5 minutes
	ramp around the hour used by TSOs. Therefore, we ask for further explanations on
	such constraints.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	We agree with the proposed methodology for AC and DC borders
Stake-	The document does not accurately describe how interconnection capacities are up-
holder 20	dated near real time. On this issue, it is important to recognise that un-updated ATC
	Page 73 of 96

	calculations could deliver results that are far from the current physical flows on the grid, hence TERRE could activate results that are unfeasible. In order to avoid this situation that could undermine the integration of balancing markets, it is important that TSOs introduce calculation methods that are able to describe how interconnection are used near time of delivery and how their usage is changed due to modification of production and consumption of main nodes of the interconnected grid.
Stake-	
holder 21	Not Answered
Stake-	
holder 22	Not Answered

9.2 Q 9.2 Do you have specific comments regarding chapter 9 content? (Please indicate sub-chapter reference when possible)

Stake-	
Stake- holder 1	
Stake-	see above
holder 2	No sposifie commente
	No specific comments.
Stake-	
holder 3	N/A
Stake-	Section 9.2 introduces the concept of 'Physical Feasibility' in relation to DC intercon-
holder 4	nectors. As we are tasked with calculating imbalance volumes for the GB market, we
	need to understand in more detail how 'Physical Feasibility' will be applied in prac-
	tice. For example, will it be treated as a constraint that the activating TSO must fol-
	low and so the dispatch instruction will follow that constraint, or is it something more
	complex that we need to consider in our imbalance volume calculations, such as a
	limit on the imbalance volume that we calculate?
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
Stake-	
holder 7	We have no further comments on this chapter.
Stake-	
holder 8	No comment
Stake-	
holder 9	
Stake-	
holder 10	We do not have further comments.
Stake-	
holder 11	• No comment
Stake-	
holder 12	Not Answered
Stake-	
holder 13	No further comments
Stake-	how does borders like italy, spain or uk get nominated with terre? there's no existing
holder 14	capacity plattform like switzerland-France for those countries
Stake-	
holder 15	No comment
L	•

Stake-	
holder 16	Not Answered
Stake- holder 17	We wish to highlight the importance of a fast implementation of the Target Model (set by Regulations 714/2009 CE and 2015/1222 UE) for capacity calculation in the in- traday timeframe. The Target Model foresees the elaboration of a methodology for a coordinated recalculation of cross-border capacity after the day-ahead timeframe with the objective to make additional capacity available for intraday markets (not only the residual capacity available after Day-Ahead). This evolution could also con- tribute to increasing the cross-border capacity available for balancing energy ex- changes in the framework of TERRE with positive effects on the overall social welfare.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	No comment.
Stake-	
holder 20	
Stake-	
holder 21	Not Answered
Stake-	
holder 22	Not Answered

10 Governance

10.1 Q 10.1 Do you have specific comments regarding chapter 10 content? (Please indicate sub-chapter reference when possible)

Stake-	
holder 1	no
Stake-	
holder 2	No specific comments.
Stake-	
holder 3	Not Answered
Stake- holder 4	As we have set out in our answers to the other questions in this consultation, it is vi- tal to the overall success of TERRE that non-TSO central service providers (such as is – we are responsible for balancing and imbalance settlement in GB) are included in the detailed design of TERRE, and any subsequent changes, so that our local systems are ready in time to interface with TERRE from Day 1 and are able to continue to align with TERRE thereafter.
	We very much welcome the public meetings that have been held by TERRE TSOs to date, but we think that this will not be sufficient going forwards as we will need de- tailed information on interfaces with TERRE, and to be notified of any changes of de- sign as soon as they are proposed and then agreed, so that we can notify our TSO of the impacts and timing implications. Without this in-depth involvement in the ongo- ing development of TERRE, the risk increases of not delivering the local arrangements for which we are responsible to time. This in turn increased the risk of a delay to TERRE as a whole. Under the current GB arrangements, while the GB TSO can pro- pose changes to balancing settlement and imbalance settlement, it is not responsible for making those changes that are approved by our NRA or for operating the settle- ment arrangements in GB. That responsibility falls to us

	We also have some questions on the ongoing change process and its governance as follows.
	In addition to the governance of the initial TERRE design and its implementation, what are the governance arrangements for the enduring operation and change man- agement of TERRE?
	Will defining this be part of Project TERRE now?
	As actual operational experience of TERRE is built up, issues to be resolved, and im- provements that can be made, will be identified. How will such issues and changes be progressed, including coordination of change with the live local arrangements?
Stake-	
holder 5 Stake-	Not Answered
Stake- holder 6	It is helpful in terms of aiding understanding of the governance arrangements. Clearly these are not directly provided for under any existing legislation and it will good to understand how this would develop when the EB GL is in place.
Stake- holder 7	As the TERRE project is a European pilot project and will become a CoBA under the NC EB, we ask that a framework for the inclusion of stakeholders will be created.
	While ad-hoc workshops, information sessions and implementation roadmaps on a national level are useful and welcomed by us – especially for the operational implementation and any changes to the current balancing market such stakeholder involvement is crucial – they should not substitute for a structural framework for stakeholder involvement on a project level. Such a 'user group' should ensure a struc-
	tural involvement of stakeholders in the further development and evolution of the TERRE project. It should also function as a tool for transparency on decisions and per- formance, as well as a platform for stakeholders to put forwards questions, sugges- tions and requests.
Stake- holder 8	We believe that the TERRE project being the sole pilot project focusing on RR, it will have a decisive effect on the implementation of related provisions in the Electricity Balancing guideline. While we welcome the type of ad-hoc workshops that have been organised in the past to inform market participants of developments in the project, a more structured stakeholder engagement platform that allows two-way communica-
	tion in the final stages of the project design and throughout its implementation would be necessary.
Stake-	
holder 9	Please see answers to Q 0 and Q 1.1.
Stake- holder 10	In line with our introductory statement, we believe that the TERRE project being the sole pilot project focusing on RR, it will have a decisive effect on the implementation of related provisions in the Electricity Balancing guideline. While we welcome the type of ad-hoc workshops that have been organised in the past to inform market participants of developments in the project, a more structured stakeholder engagement platform that allows two-way communication in the final stages of the project design and throughout its implementation would be necessary.
Stake-	
holder 11	No comment
Stake- holder 12	Not Answered
Stake- holder 13	No further comments

Stake-	
holder 14 '-	
Stake-	
i i	No comment
Stake-	
	Not Answered
	We welcome the commitment of the TERRE TSOs to involve stakeholders at regional
· · · · · ·	and national levels across the different project stages. As already mentioned, the
	contribution of stakeholders during the design and implementation phase of the pro-
	ect is of paramount importance for the following reasons:
1	ect is of paramount importance for the following reasons.
	Though sometime perceived by TSOs as time consuming, stakeholder involvement
!	proved to be effective to ensure the feasibility and the timely implementation of re-
1	gional and European projects (e.g. Day-ahead Market Coupling, Flow-Based) by con-
-	ributing to defining the right design at an early stage;
	insuling to demining the right design at an early stage,
	A good and early visibility on all the main features of TERRE is necessary in order for
	3SPs to develop the tools, define the processes and update the IT systems required
i i	o participate in the mechanism. This process will take at least 18 months for us.
F	or these reasons, we suggest to "institutionalize" stakeholders' involvement
	hrough the creation of a "Stakeholder Committee" (along the lines of the CWE Con-
1	sultative Group for Flow-Based) cooperating with the TERRE Steering Committee and
	ERRE Working Groups during the project design phase and, after the go-live,
1	hroughout the implementation phase and for further developments of the mecha-
i i	nism. The creation of such a committee would also favour a continuous sharing of
1	he experiences gained by BSPs and TSOs in implementing TERRE. Such committee
1	would consistently and usefully complement the Balancing Stakeholder Group (BSG)
i i	at European level, which provides a more general overview on all pilot projects.
Stake-	······································
holder 18 N	Not Answered
Stake- V	Ne believe that market participants should be more actively involved in the develop-
holder 19 n	nent and maintenance of Project TERRE and TERRE members.
	t is important to ensure that in the Steering Committee (SC) all stakeholders are rep-
i i	esented, hence BSPs and BRPs should be allowed to participate.
Stake-	
holder 21 N	Not Answered
Stake-	
holder 22	Not Answered

11Transparency

11.1 Q 11.1 Do you have specific comments regarding chapter **11** content?

Stake-	
holder 1	no
Stake-	TSOs should submit data not only to the ENTSO-E Transparency Platforms. Integra-
holder 2	tion of prices, volumes and assigned offers should be done in every RR local market,
	and be published according local market rules.

Stake-	
holder 3	Not Answered
Stake- holder 4	The TERRE platform must also provide data sufficient for the settlement of imbal- ances at local level to the local market operators, such as us. Such TERRE data would include clearing price(s) for the GB Bidding Area and GB TERRE acceptance volumes. We would also publish this data to the extent required by our local, NRA-approved, rules. Article 4(5)of the quoted Regulation on Transparency (543/2013) also allows that: 'without prejudice to the obligations of the TSOs and of the ENTSO for Electricity laid down in paragraph 1 and Article 3, data can also be published on TSOs' or other par- ties' websites.'
	As we also operate the GB transparency platform where all Specific Product ac- ceptances are already published, for a full picture we would expect to receive and propose to publish TERRE Product acceptances taken from GB-based BSPs too, if this approach was approved by our NRA.
Stake- holder 5	Not Answered
Stake- holder 6	We would support full transparency of TERRE information including details of offers made into the mechanism, those accepted, clearing prices,TSO imbalance needs as well as volumes and prices of activated reserves.
Stake- holder 7	 We ask that TERRE platform members will provide the necessary transparency during the implementation phase on: If so chosen (see our response on question 3.8), the methodology for the elastic balancing need; The methodology to convert CDS bids (see our response on question 3.9); The optimization between bid formats and required time for the algorithm (see our response on question 7.2). And after the go-live of the TERRE project, on-going transparency on: Unavailable bids; Unforeseeable Accepted/Rejected Offers; Any limits on ramping rates for DC links within the synchronous zone (see our response on question 9.1); If so chosen to be kept (see our response on question 4.2), the amount of counter-
Stake-	activations. See our response to question 10.1 and various transparency requests throughout this
holder 8	document.
Stake- holder 9	We suggest the following additional publications at XB level no later than one hour after the operating period:
	- Imbalance needs per TSO, both elastic/inelastic
L	- Volumes of unavailable offers (unshared/restricted), as defined in chapter 3.1.4.1

	- The occurrence of indeterminacies described in chapter 5.6 (only netting of needs)
	- TERRE ATC considered every time unit, and constraints of the clearing (example:
	ramping constraints in DC links)
	Additionally, there should be detailed quarterly reports at stakeholder's disposal.
Stake-	See our response to question 10.1 and various transparency requests throughout
holder 10	this document.
Stake-	• We expect full transparency regarding unshared and restricted offers as described
holder 11	in sub-chapter 3.1.4.1.
Stake-	Net An averaged
holder 12	Not Answered
Stake- holder 13	It is unclear to us which information presented in Annex 7 (at XB lebel/at national level/both) is to be submitted from TERRE to the ENTSO-E transparency platform.
Stake-	will there be made data trasparent like counter activations (neeting) or margin price
holder 14	calculations ? how and when ?
	We expect the transparent publication of all bid offer curves of all bidding zones
ļ	close to real time (max. 30min. delay) including unforeseen activated bids etc.
Stake-	We expect full transparency regarding unshared and restricted offers as described in
holder 15	sub-chapter 3.1.4.1.
Stake-	
holder 16	Not Answered
Stake- holder 17	As stated in the document, TSOs should ensure the compliance with the transparency obligations set by Article 17 of the Regulation on Transparency (543/2013).
	obligations set by Article 17 of the Regulation on Transparency (343/2013).
	Nevertheless, TSOs should ensure a proper level of transparency on:
	- The methods used to calculate the imbalance needs submitted to the TERRE plat- form;
	- The algorithm of the CMO;
	- The availability and use of interconnections;
	- The timely publication of the activated volumes and prices (starting from H-30' and not in H+1) in order for market participants to anticipate the imbalance price level
	and the size and direction of imbalances. This kind of information is needed for BRPs
	to foresee imbalance costs.
	We finally wish to highlight the need to ensure the confidentiality of the data on BSPs' bids processed by the TERRE platform.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	No comment
Stake-	We think that TERRE project should fully respect transparency information contained
holder 20	in Electricity Balancing Guidelines, and especially article 8.
	Duplication of data submission should be avoided, existing data sources such as
L	

	those provided under Financial Regulation/Transparency Platform and existing na- tional arrangements should be considered.
Stake-	
holder 21	Not Answered
Stake-	
holder 22	Not Answered

12 Harmonization Issues

12.1 Q 12.1 Which features (if any) of local balancing market design needs to be harmonized for an efficient functioning of the TERRE project? If several, please rank the first three you consider the most important to harmonies.

Stake-	as much as possible: first of all product specification, activation procedure, activation
holder 1	time, system/plattform
Stake- holder 2	It seems evident that the higher harmonization the better performance and higher efficiency of TERRE.
	But taking into account the differences among the local balancing markets, we con- sider that the first priority should be the harmonization of ID/Balancing timing, the features of the products to be contracted and the imbalance needs.
	TIMING
	Gate Closure of XB ID must be set at H-60 min. in order to give the time for TERRE processes. Market participants cannot be active with the same resources in two markets for the same period of time and overlapping of ID and Balancing must be avoided.
	With this timing, market participants will be active in the ID market up to H-60 min and will send the balancing energy offers after the ID GCT, between H-60 min and H- X min.
	PRODUCTS
	Definition of a cross border product and format of balancing offers. The formats of balancing offers have to provide flexibility to use all of the technically available resources, but should not collapse the algorithm or provide non-transparent (or counter-intuitive) results.
	IMBALANCE NEEDS
	We consider that TSOs have to publish an inelastic volume to be procured according to the application of System Operation Procedures, but not elastic volumes. TSOs have to use all the resources (regulated assets) to guarantee and minimize the needs but must not compete with BSPs in order to provide the balancing energy because that operation would be against the unbundling principle.
	The next step would be the harmonization of pricing and settlement rules to guaran- tee a fair competition among BSPs for providing the same service.

Stake-	
holder 3	Not Answered
Stake- holder 4	The most important harmonisation decisions to make from our perspective as the GB balancing and imbalance settlement administrator are (and we apologise that there are more than three):
	• A decision across TERRE on when TERRE acceptances can be ignored because they have arrived 'too late'. It is important for payment and imbalance settlement purposes that all TERRE TSOs harmonise on this point otherwise some TERRE TSOs will be expecting payments which other TERRE TSOs are not expecting to make or vice versa.
	• A decision on the settlement treatment of ramps, whether this is to be harmonised at all and, if so, how; or whether it is to be left to local arrangements to decide. As noted in our answer to Question 3.5 and for the reasons given in that answer, we suggest that consideration is given to treated ramps as zero-priced contracts and not as imbalances by TERRE Member States.
	• Decisions on what happens in the event of a default or late payment on a TERRE payment obligation, e.g. by a TERRE TSO or a TERRE BSP.
	• A decision on the Gate Closure time for BSPs to submit TERRE Product Bids to their local TSO – it seems possible that TERRE BSPs may wish to harmonise on this and, if harmonisation is agreed, we need to know what that Gate Closure time will be.
	Beyond this, all aspects of the design of TERRE, including the decisions on harmonisa- tion, need to be decided as soon as possible and communicated to stakeholders so that we can design and implement the local arrangements on time.
Stake-	
holder 5	Not Answered
Stake-	As we mention above, we would be concerned if TERRE was driving harmonisation
holder 6	outside of the requirements of the EB GL. Regardless of an European or regional approach the following features should be harmonized first:
	- Pricing rules
	- Settlement rules
	- Transparency rules
Stake-	As already mentioned in previous answers, we consider it imperative that local rules
holder 7	are aligned in order to provide a level playing field and fair competition between BSPs of different countries. The most important – though not only – ones are:
	• Pricing rules:
	o whether BSPs are settled according to a Pay-as-Bid or a Pay-as-Cleared scheme has impact on bidding behaviour and should thus be harmonized.
	o Price floors and caps should be removed, as they limit how BSPs may bid compared to BSPs in other countries.
	• Settlement rules: whether or not ramping rates are included in the remuneration of

	BSPs has an impact on the pricing of bids and should thus be handled the same for all BSPs.
	• Penalties: the impact of failing to deliver balancing bids is integrated in the pricing of bids and should thus be the same for all participants.
	we ask TSOs to make a proposal for aligning such local rules across countries partici- pating to the TERRE project and presenting them to NRAs to ensure the necessary
	changes can be implemented before the TERRE project goes live.
Stake- holder 8	As already mentioned in previous answers, we consider necessary for local rules to be harmonised in order to provide a level-playing field and fair competition between BSPs of different countries. Examples include:
	• Pricing rules:
	o whether BSPs are settled according to a Pay-as-Bid or a Pay-as-Cleared scheme has an impact on bidding behaviour and should thus be harmonised.
	o Portfolio bidding should be adopted as a general rule, excluding unit bidding that still takes place in several countries.
	o Price floors and caps should be removed, as they limit how BSPs may bid compared to BSPs in other countries.
	• Settlement rules: whether or not ramping rates are included in the remuneration of BSPs has an impact on the pricing of bids and should thus be handled the same for all BSPs.
	• Penalties: the impact of failing to deliver balancing bids is integrated in the pricing of bids and should thus be the same for all participants.
	We thank ? TSOs to take an active role in harmonising RR product features to the full- est extent possible. We see a danger in non-harmonised rules and features practically excluding bids from use in certain markets, thereby weakening the optimality and economic efficiency of reserves exchanges at a regional level. NRAs should actively support this harmonisation process, and market participants should be consulted on the orientations considered.
Stake-	1. Standardization of the products shall be maximized in terms of geographical scope,
holder 9	but also in terms of "use" (by minimising specific products not shared in TERRE)
	2. Simplicity in bidding, clearing and settling
	3. Common methodologies and rules applicable to all the TSOs involved
Stake-	As already mentioned in previous answers, we consider it necessary for local rules to
holder 10	be harmonised, based on an appropriate cost-benefit analysis, in order to provide a level-playing field and fair competition between BSPs of different countries. Exam- ples include:
	• Pricing rules:
	o whether BSPs are settled according to a Pay-as-Bid or a Pay-as-Cleared scheme has an impact on bidding behaviour and should thus be harmonised.

ared
on of or all
ing
the acti- ty c- 1-
n is-
al for
İ
S-
for
n is-
al for
orove
orove et se

caps and floor, if applied, should be large enough to enable balancing markets to ac-
curately reveal the value of the service provided in different electricity system condi-
tions and especially in strained situations.
Not Answered
As noted in Q3.2 and 3.5, the degree of local features should be minimised in order
to best promote standardisation. That said, Project TERRE should be flexible enough to recognise the specific conditions that exist within individual markets. There should be no reason to harmonize markets simply to implement project TERRE without a clear benefit. Nonetheless, we list below the crucial elements that we believe are necessary for harmonisation.
Pricing rules – i.e. whether BSPs are settled according to a Pay-as-Bid or a Pay-as- Cleared scheme has an impact on bidding behaviour and should thus be harmonised. Furthermore, price floors and caps should be removed, as they limit how BSPs may bid compared to BSPs in other countries.
Settlement rules - whether or not ramping rates are included in the remuneration of BSPs has an impact on the pricing of bids and should thus be handled the same for all BSPs.
Penalties - the impact of failing to deliver balancing bids is integrated in the pricing of bids and should thus be the same for all participants.
We think that it is important to harmonise:
1. Price caps and floors
2. Possibility to place portfolio bids
3. Harmonization of intraday markets and balancing philosophy
······································
Not Answered

12.2 Q 12.2 Do you share the position from TERRE TSOs (i.e. the caps and floors in balancing energy markets should be removed by the entry into force of TERRE)?

Stake-	
holder 1	yes
Stake- holder 2	We consider that harmonization of pricing rules, including caps & floors, is a need to guarantee a level-playing field for competition. However, we also think that negative prices are not the real value of balancing energy, but the result of a market price distortion caused by regulatory interventions, i.e. to set a regulatory payment for production apart from the market price. NRAs should support this necessary harmonization processes but taking into account these effects in the market prices and analyzing possible solutions.
Stake- holder 3	Not Answered

Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake-	Yes, although the inclusion of elastic imbalance needs seems to effectively introduce
holder 6	caps and floors into the TERRE mechanism.
Stake-	We consider that removing the caps and floors in all participating balancing energy
holder 7	markets is required in order to have a level playing field between the BSPs of the dif-
nonuci /	ferent countries.
Stake-	Yes, see our responses to questions 3.2 and 12.1.
holder 8	
	It is a obvious case that needs harmonization
Stake-	Floors in balancing offers could be removed if the only driver in bidding at negative
holder 9	prices is the reflection of variable costs of reducing scheduling and the design of both
	XB and national balancing markets are well fitted for this. They cannot be removed if
	other distortions exist, as renewables support mechanisms.
Stake-	
holder 10	Yes, see our responses to questions 3.2 and 12.1.
Stake-	
holder 11	• We agree
Stake-	
holder 12	
Stake-	We support the position of the TERRE TSOs regarding the removal of caps and floors
holder 13	in the balancing energy markets by the entry of TERRE into force.
Stake-	
holder 14	Yes, there should not exist caps and floors not even on high levels.
Stake-	We fully support the concept of harmonization of the market conditions between the
holder 15	bidding zones participating to TERRE.
Stake-	
holder 16	Not Answered
Stake-	We share TSOs' expectation and we also consider that the removal of caps and floor
holder 17	in balancing energy markets at European level should be carefully assessed taking
	into account the possible impacts on the functioning of national balancing markets.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	As noted in Q3.2. we fully support and encourage the removal of caps and floors.
Stake-	
holder 20	Yes, we agree with the need to remove (or harmonise) caps and floors.
Stake-	
holder 21	Not Answered
Stake-	No. We believe that the harmonization of price caps and floor cannot be taken as a
holder 22	corollary to pilot project but should instead be correctly dealt with at the NRA level,
	taking into consideration all the relevant national features.

12.3 Q 12.3 In case this cannot be done before the entry into force of EB GL, do you agree on the transitional application of the solution through settlement? Or which is your view regarding a backup solution?

Stake- holder 1 it is ok Stake- holder 2 The full harmonization of local balancing energy markets in the short term is not alistic scenario and transitional solutions that allow implementing progressively t XB Balancing Market are welcome. Stake- holder 3 Not Answered Stake- holder 4 Not Answered Stake- holder 5 Not Answered Stake- holder 6 N/A Stake- holder 6 N/A Stake- holder 7 TSO-TSO settlement, but does not guarantee that BSPs of different countries can	he
Stake- holder 2The full harmonization of local balancing energy markets in the short term is not alistic scenario and transitional solutions that allow implementing progressively t XB Balancing Market are welcome.Stake- holder 3Not AnsweredStake- holder 4Not AnsweredStake- holder 5Not AnsweredStake- holder 6N/AStake- holder 6N/A	he
holder 2alistic scenario and transitional solutions that allow implementing progressively t XB Balancing Market are welcome.Stake- holder 3Not AnsweredStake- holder 4Not AnsweredStake- holder 5Not AnsweredStake- holder 6Not AnsweredStake- holder 6Not Answered	he
XB Balancing Market are welcome. Stake- holder 3 Not Answered Stake- holder 4 Stake- holder 5 Not Answered Stake- holder 6 N/A Stake- We consider that the proposed transitional methodology may offer a solution for	
Stake- Not Answered Stake- Not Answered holder 4 Stake- holder 5 Not Answered Stake- We consider that the proposed transitional methodology may offer a solution for	the
holder 3 Not Answered Stake- holder 4 Not Answered Stake- holder 5 Not Answered Stake- holder 6 N/A Stake- holder 6 N/A	the
Stake- Image: Market stake- holder 5 Not Answered Stake- Image: Market stake- holder 6 N/A Stake- We consider that the proposed transitional methodology may offer a solution for	the
holder 4 Stake- holder 5 Not Answered Stake- holder 6 N/A Stake- We consider that the proposed transitional methodology may offer a solution for	the
Stake- holder 5 Not Answered Stake- holder 6 N/A Stake- We consider that the proposed transitional methodology may offer a solution for	the
Stake- holder 6N/AStake-We consider that the proposed transitional methodology may offer a solution for	the
holder 6N/AStake-We consider that the proposed transitional methodology may offer a solution for	the
Stake- We consider that the proposed transitional methodology may offer a solution for	the
	the
holder 7 TSO-TSO settlement, but does not guarantee that BSPs of different countries can	
	ļ
compete on a level playing field in the TERRE platform. Diverging local rules will c	re-
ate different bidding behaviour and possibilities, distorting a correct comparison	
balancing bids on the TERRE CMOL. As the only way to achieve a fair competition	be-
tween BSPs is a correct alignment of local rules, we reiterate its request that such	I
alignment is implemented before the TERRE project goes live.	
Stake- We do not think the transitional arrangement is an acceptable solution for the re	
holder 8 sons explained in our responses to questions 3.2 and 12.1. TSOs should work on r	1
moving price caps/floors to ensure that reserves exchanges are most optimal and	
economically efficient at a regional level. This process can be started as of now an	ıd
should be strongly supported by NRAs .	
Stake- We agree on the transitional application of the solution through settlement. We	
holder 9 sider that the local floor system price reflects the cost of balancing better than th	
cal marginal balancing price that can be far from cost of balancing and could not	oro-
vide enough incentives to parties to balance.	
Stake- We do not think the transitional arrangement is an acceptable solution for the re	
holder 10 sons explained in our responses to questions 3.2 and 12.1. TSOs should work on r	
moving price caps/floors to ensure that reserves exchanges are most optimal and	
economically efficient at a regional level. This process can be started as of now an	ia
should be strongly supported by NRAs as a no-regret measure. Stake-	
 bolder 11 We agree on the transitional application of the solution through settlement. 	
Stake-	
holder 12	
Stake- It is important that harmonization issues do not result in a delay or postponemer	t of
holder 13 TERRE's implementation. Therefore, we support the interim solution through set	
ment.	-
Stake- No, the harmonization has to take place before any implementation of Terre due	to
holder 14 non-discrimination of any BRP.	
Stake- The interim solution proposed is a national re-adjustment. According to the const	ulta-
holder 15 tion document this will not affect the other TSOs. Under this circumstances we ag	
on the interim solution proposed to avoid potential delays to the TERRE project.	

	However, a prerequisite to this readjustment is an agreement of the concerned TSO
	· · · · · · ·
	with their NRAs. How to handle a refusal of the concerned NRA?
Stake-	
holder 16	Not Answered
Stake-	We believes that the envisaged transitional solution, though not optimal, would al-
holder 17	low a timely implementation of the project before the harmonisation of price caps
	and floors by the TSOs participating in TERRE.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	We would support transitional arrangements for early implementation of TERRE.
Stake-	It is important that cap and floor prices are harmonized/removed before the intro-
holder 20	duction of TERRE in order to assure a level playing field between market participants
Stake-	
holder 21	Not Answered
Stake-	We believes that a "solution through settlement" could be a legitimate tool identified
holder 22	by the relevant NRAs to deal with the above mentioned harmonization issues.

12.4 Q 12.4 What is the minimum amount of time that market participants need to update your RR balancing offers after receiving the results of the crossborder intra-day (XBID) process?

Stake-	it depends on many factor (system-people-time), dfficult to answer
holder 1	
	5Min.
Stake-	15 minutes is a good first approach, but it is necessary to see how the intraday mar-
holder 2	ket develops.
Stake-	
holder 3	Not Answered
Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
Stake-	It is not possible for us to define a minimum amount of time required to update RR
holder 7	balancing offers. This depends on the (allowed) complexity of the bidding strategy, in
	part dependent on the available bidding formats. In order to ensure that BSPs can
	make the best possible offers to the TERRE platform, the time available between re-
	ceiving the results of XBID and the GCT of TERRE should be maximized. This can be
	done by performing some processes in parallel instead of sequentially and by adapt-
	ing the complexity of the bidding format depending on the required time for the
	clearing algorithm (see our answer to question 7.2).
Stake-	As mentioned in our response to question 7.2, the precise time available for market
holder 8	participants to adjust their offers is not yet set, but the consultation document sug-
	gest an extremely short time that may make it difficult – if not impossible – for BSPs
	to adjust and submit their bids. Market participants should be involved in discussions
	on how to extend this time as much as technically possible.
Stake-	
holder 9	Please see answer to Q 7.4.

Stake-	As mentioned in our response to question 7.2, the precise time available for market
holder 10	participants to adjust their offers is not yet set, but the consultation document sug-
	gest an extremely short time that may make it difficult – if not impossible – for BSPs
	to adjust and submit their bids. Market participants should be involved in discussions
	on how to extend this time as much as technically possible.
Stake-	• It is difficult to estimate the IT complexity of the participation in TERRE, therefore
holder 11	only a rough estimation could be made.
	 Updating our RR balancing offers is depending on the complexity of our pool of
	plants, on the complexity of the offers and of the IT platform and it is depending on
	all our other intraday activities. We assume a time between 15 and 30 minutes.
Stake-	
holder 12	
Stake-	It is difficult to estimate the IT complexity of the participation in TERRE, therefore
holder 13	only a rough estimation could be made. We believe that a period of 10 to 20 minutes
	for the update of the RR offers after receiving the results of the cross border intraday
	process would be sufficient.
Stake-	5min
holder 14	
	Bidding should anyway be possible to make several hours before the settlement algo-
	rithms of Terre starts.
	Intraday Market should in any case not be negative influenced by TERRE (not in gate
	closure nor in liquidity and x-boarder coupling)
Stake-	This is mainly depending on the process/platform to create and update TERRE bids.
holder 15	The more efficient and user friendly this is created to less time is needed by the BSP
	to update a balancing offer. In an ideal case this can be done within less than 10
	minutes.
Stake-	
holder 16	Not Answered
Stake-	As explained in answer to question 7.4 the minimum amount of time that we need to
holder 17	update RR balancing offers after receiving the results of the cross-border intra-day
	(XBID) process and after the update of units' schedules is 5 minutes.
Stake-	
holder 18	Not Answered
Stake-	The precise time available for market participants to adjust their offers is not yet set,
holder 19	but the consultation document suggest an extremely short time that may make it dif-
	ficult – if not impossible – for BSPs to adjust and submit their bids. Market partici-
	pants should be involved in discussions on how to extend this time as much as tech-
<u>.</u>	nically possible.
Stake-	We consider that the desirable minimum amount of time would be 30', maybe 15'
holder 20	could be assumable, but not so sure on the later.
Stake-	
holder 21	Not Answered
	i la
Stake- holder 22	

12.5 Q 12.5 Do you consider there are other key issues that need to be harmonized to avoid significant distortions between BSP across TERRE Members States?

Stake-	
Slake-	
holder 1	For sure but to long and expensive to detail now
Stake-	
holder 2	No more comments.
Stake-	
holder 3	Not Answered
Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
Stake-	We reiterate our strong view that an alignment of local rules is necessary to ensure a
holder 7	level playing field between BSPs of different TERRE Member States. This includes - as
	previously stated – settlement, pricing and penalties. It is imperative that any harmo-
	nization of these elements includes processes between TSO and BSP; the interim so-
	lution proposed by TERRE is insufficient.
Stake-	
holder 8	Please refer to our response to question 12.1
Stake-	The possibility to migrate to as TSO-BSP marginal settlement in countries with a pay
holder 9	as bid balancing market should be explored.
Stake-	
holder 10	We refer to our response to question 12.1.
Stake-	• Additionally to the points listed in Q12.1, a harmonization of the scheduling steps
holder 11	would simplify the implementation of the TERRE project. This point has been ad-
	dressed in chapter 7.
	• The harmonization of the ramp settlement would also be of importance in order to
	avoid distortions between the BSPs across TERRE members
Stake-	
holder 12	
Stake-	It is difficult to estimate the IT complexity of the participation in TERRE, therefore
holder 13	only a rough estimation could be made. We believe that a period of 10 to 20 minutes
	for the update of the RR offers after receiving the results of the cross border intraday
	process would be sufficient.
Stake-	Harmonization only price and processwise or on the regulatory side as well? Prequali-
holder 14	fication of plants, obligations to deliver bids, offers. Forced activation in case of lack
	of offers? (emergency concepts)
Stake-	Additionally to the points listed in Q12.1, a harmonization of the scheduling steps
holder 15	would simplify the implementation of the TERRE project. This point has been ad-
	dressed in chapter 7.
Stake-	
holder 16	Not Answered
Stake-	We have not identified other issues that need to be harmonised to avoid distortions
holder 17	
	site for the implementation of l'ERRE.
holder 17	between BSPs across TERRE bidding zones. In particular, we believe that the harmo- nisation of Imbalance Settlement Periods (ISP) should not be considered a prerequi- site for the implementation of TERRE.

	However, when implementing local rules in each TERRE Member States, the con- sistency between these rules should be guaranteed. We do not require full harmoni- sation of local rules but we draw TSO's attention on the need to avoid distortions be- tween market players.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	No comment.
Stake-	The principle elements that should be harmonized have been described in answer
holder 20	12.1
Stake-	
holder 21	Not Answered
Stake-	
holder 22	

12.6 Q 12.6 Do you have specific comments regarding chapter 12 content? (Please indicate sub-chapter reference when possible)

Stake-	
holder 1	see above: this is the key challange!!
Stake-	
holder 2	No specific comments.
Stake-	
holder 3	Not Answered
Stake-	
holder 4	
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
Stake-	
holder 7	We have no further comments on this chapter.
Stake-	
holder 8	No other comment
Stake-	
holder 9	
Stake-	
holder 10	We do not have further comments.
Stake-	
holder 11	No comment
Stake-	
holder 12	
Stake-	
holder 13	No further comments
Stake-	
holder 14	'
Stake-	
holder 15	No comment

Stake-	
holder 16	Not Answered
Stake-	It would be good to have an even rough estimate of the financial consequence of the
holder 17	local implementation of caps and floors.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	No comment.
Stake-	We consider the higher the harmonization the easier to ensure a level playing field,
holder 20	though particularities should always be evaluated
Stake-	
holder 21	Not Answered
Stake-	
holder 22	

13 Project Implementation Plan

13.1 Q 13.1 Do you have specific comments regarding chapter 13 content? (Please indicate sub-chapter reference when possible)

Stake-	
holder 1	no
Stake-	
holder 2	No specific comments.
Stake-	The timelines presented in the implementation plan are reflective of a project of this
holder 3	size. As there are many entities involved, the complexities of implementation only in-
	crease. The approach to testing, i.e. staggered/parallel appears to be a good fit. For
	the iterative development phase, caution should be exercised to choose the appro-
	priate level of iteration from the agile to waterfall spectrum.
Stake-	We believe that the 'System Architecture and Interfaces Specification'; the Functional
holder 4	Specification and any other documents that will impact how we might design our lo-
	cal arrangements should be released to us as soon as possible.
	We also are seeking information on the parallel run, end to end testing and to what
	extent we can be involved in this.
	In more detail, we have the following questions:
	 Who is producing the 'System Architecture and Interfaces Specification and how
	will this be reviewed with stakeholders?
	o We also note that the Specification needs to be maintained in parallel with the
	Functional Specification, i.e. it will need to evolve and be shared with affected stake-
	holders whose systems are impacted
	• How and by whom is the business model design documented? In particular who
	will document assumptions about what happens in the local arrangements and how
	that interacts with the TERRE processing and how will this be shared with the local
	arrangements?
L	o We are making assumptions locally about what central TERRE is doing and what we

holder 5Not AnsweredStake- holder 6As stated in question 0, we have been left with very little time in the consultation process to comment on such complex issue and that the process as set out seems to have no reliance on or interaction with the development of the EB GL.Stake- holder 7As we have mentioned in several questions, it is imperative that local rules for e.g. pricing and settlement are harmonized before the TERRE project goes live. Other- wise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmo- nized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project would be clarified.Stake- holder 8Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project.Stake- Please see answers to Q 0 and Q 1.1 and the following specific comments:		
 deliver, but there is also a need to document the overall market impact. o In particular we will need to define the content and meaning of various data feeds to and from the central TERRE arrangements, and key processes that happen locally (e.g. currency conversion). We need to define what we expect to receive from TERRE and what TERRE expects from us. There is no information about what is intended for the parallel run. Parallel run normally means run new solution alongside old solution and see if comes up with the same answers. What is the old solution in this case? Is this really end to end testing? Or if not, end to end testing is also required. End to end testing should involve the local arrangements that interface with TERRE as well as the TERRE central systems and not all of these are operated by the TERRE TSOs. How will we validate whether the TERRE system is doing what we expect? If the design continues to develop beyond this first NRA approval, what will drive the phases of iteration? Will the appointed service provider drive this? How will the local stakeholders/arrangements be included to ensure that we are ready for the final approved design too? How will the acceptance criteria and test scenarios be set for the whole TERRE solution (including the local arrangements and non IT business processes, not just the TERRE platform)? Stake- As stated in question 0, we have been left with very little time in the consultation holder 6 more eliance on or interaction with the development of the EB GL. Stake- As we have mentioned in several questions, it is imperative that local rules for e.g. Provided that TSOs and MRAs work in parallel with the project implementation to have no reliance on or interaction with the development of the EB GL. Stake- Providet that TSOs and MRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our respon		
 to and from the central TERRE arrangements, and key processes that happen locally (e.g. currency conversion). We need to define what we expect to receive from TERRE and what TERRE expects from us. There is no information about what is intended for the parallel run. Parallel run normally means run new solution alongside old solution and see if comes up with the same answers. What is the old solution in this case? Is this really end to end testing? Or if not, end to end testing is also required. End to end testing should involve the local arrangements that interface with TERRE as well as the TERRE central systems and not all of these are operated by the TERRE TSOs. How will we validate whether the TERRE system is doing what we expect? If the design continues to develop beyond this first NRA approval, what will drive the phases of iteration? Will the appointed service provider drive this? How will the local astakeholders/arrangements be included to ensure that we are ready for the final approved design too? How will the acceptance criteria and test scenarios be set for the whole TERRE solution (including the local arrangements and non IT business processes, not just the TERRE platform)? Stake-holder 5 Not Answered Stake-holder 6 As stated in question 0, we have been left with very little time in the consultation process to comment on such complex issue and that the process as set out seems to have no reliance on or interaction with the development of the EB GL. Stake-holder 7 pricing and settlement are harmonized before the TERRE project goes live. Otherwise, 85Ps will not be able to compete fairly when put on the same CMOL To this end, the Project Implementation Plan should also include a track to develop a harmonized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall		
 normally means run new solution alongside old solution and see if comes up with the same answers. What is the old solution in this case? Is this really end to end testing? Or if not, end to end testing is also required. End to end testing should involve the local arrangements that interface with TERRE as well as the TERRE central systems and not all of these are operated by the TERRE TSOS. How will we validate whether the TERRE system is doing what we expect? If the design continues to develop beyond this first NRA approval, what will drive the phases of iteration? Will the appointed service provider drive this? How will the local stakeholders/arrangements be included to ensure that we are ready for the final approved design too? How will the acceptance criteria and test scenarios be set for the whole TERRE solution (including the local arrangements and non IT business processes, not just the TERRE platform)? Stake-holder 5 Not Answered Stake-a As stated in question 0, we have been left with very little time in the consultation process to comment on such complex issue and that the process as set out seems to have no reliance on or interaction with the development of the EB GL. Stake-holder 7 pricing and settlement are harmonized before the TERRE project goes live. Otherwise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmonized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project. Stake- Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project. Stake-		to and from the central TERRE arrangements, and key processes that happen locally (e.g. currency conversion). We need to define what we expect to receive from
 as well as the TERRE central systems and not all of these are operated by the TERRE TSOs. How will we validate whether the TERRE system is doing what we expect? If the design continues to develop beyond this first NRA approval, what will drive the phases of iteration? Will the appointed service provider drive this? How will the local stakeholders/arrangements be included to ensure that we are ready for the fi- nal approved design too? How will the acceptance criteria and test scenarios be set for the whole TERRE so- lution (including the local arrangements and non IT business processes, not just the TERRE platform)? Stake- holder 5 Not Answered Stake- holder 6 As stated in question 0, we have been left with very little time in the consultation process to comment on such complex issue and that the process as set out seems to have no reliance on or interaction with the development of the EB GL. Stake- holder 7 pricing and settlement are harmonized before the TERRE project goes live. Other- wise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmo- nized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project would be clarified. Stake- holder 8 Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project. Stake- holder 9 - Subchapter 13.1 – paragraph 1: "in line with the RR CoBA implementation require- ments of the current draft GL EB". The TERRE pilot project should provide a gap anal- vsis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according		normally means run new solution alongside old solution and see if comes up with the same answers. What is the old solution in this case? Is this really end to end testing?
 the phases of iteration? Will the appointed service provider drive this? How will the local stakeholders/arrangements be included to ensure that we are ready for the final approved design too? How will the acceptance criteria and test scenarios be set for the whole TERRE solution (including the local arrangements and non IT business processes, not just the TERRE platform)? Stake- Not Answered Stake- As stated in question 0, we have been left with very little time in the consultation process to comment on such complex issue and that the process as set out seems to have no reliance on or interaction with the development of the EB GL. Stake- holder 7 pricing and settlement are harmonized before the TERRE project goes live. Otherwise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmonized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project would be clarified. Stake- Provided that TSOs and NRAs work in parallel with the project. implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project. Stake- holder 9 Subchapter 13.1 – paragraph 1: "in line with the RR CoBA implementation requirements of the current draft GL EB". The TERRE flot project should provide aga panalysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q, 'quick wins' should be implemented in TERRE to identify solutions 		as well as the TERRE central systems and not all of these are operated by the TERRE
lution (including the local arrangements and non IT business processes, not just the TERRE platform)?Stake- holder 5Not AnsweredStake- holder 6As stated in question 0, we have been left with very little time in the consultation process to comment on such complex issue and that the process as set out seems to have no reliance on or interaction with the development of the EB GL.Stake- holder 7As we have mentioned in several questions, it is imperative that local rules for e.g. pricing and settlement are harmonized before the TERRE project goes live. Other- wise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmo- nized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project would be clarified.Stake- holder 8Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project.Stake- holder 9Please see answers to Q 0 and Q 1.1 and the following specific comments: holder project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q 0, 'quick wins' should be implemented in TERRE to identify solutions		the phases of iteration? Will the appointed service provider drive this? How will the local stakeholders/arrangements be included to ensure that we are ready for the fi-
holder 5Not AnsweredStake- holder 6As stated in question 0, we have been left with very little time in the consultation process to comment on such complex issue and that the process as set out seems to have no reliance on or interaction with the development of the EB GL.Stake- holder 7As we have mentioned in several questions, it is imperative that local rules for e.g. pricing and settlement are harmonized before the TERRE project goes live. Other- wise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmo- nized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project would be clarified.Stake- holder 8Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project.Stake- holder 9Please see answers to Q 0 and Q 1.1 and the following specific comments: hold provide a gap anal- ysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As 		lution (including the local arrangements and non IT business processes, not just the
Stake- holder 6As stated in question 0, we have been left with very little time in the consultation process to comment on such complex issue and that the process as set out seems to have no reliance on or interaction with the development of the EB GL.Stake- holder 7As we have mentioned in several questions, it is imperative that local rules for e.g. pricing and settlement are harmonized before the TERRE project goes live. Other- wise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmo- nized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project would be clarified.Stake- holder 8Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project.Stake- holder 9Please see answers to Q 0 and Q 1.1 and the following specific comments: hold provide a gap anal- ysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q 0, 'quick wins' should be implemented in TERRE to identify solutions	Stake-	
holder 6process to comment on such complex issue and that the process as set out seems to have no reliance on or interaction with the development of the EB GL.Stake- holder 7As we have mentioned in several questions, it is imperative that local rules for e.g. pricing and settlement are harmonized before the TERRE project goes live. Other- wise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmo- nized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project would be clarified.Stake- holder 8Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project.Stake- holder 9Please see answers to Q 0 and Q 1.1 and the following specific comments: hold provide a gap anal- ysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q 0, 'quick wins' should be implemented in TERRE to identify solutions	holder 5	↓
have no reliance on or interaction with the development of the EB GL.Stake- holder 7As we have mentioned in several questions, it is imperative that local rules for e.g. pricing and settlement are harmonized before the TERRE project goes live. Other- wise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmo- nized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project would be clarified.Stake- holder 8Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project.Stake- holder 9Please see answers to Q 0 and Q 1.1 and the following specific comments: holder 9- Subchapter 13.1 – paragraph 1: "in line with the RR CoBA implementation require- ments of the current draft GL EB". The TERRE pilot project should provide a gap anal- ysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q 0, 'quick wins' should be implemented in TERRE to identify solutions	Stake-	
holder 7pricing and settlement are harmonized before the TERRE project goes live. Otherwise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmonized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of the TERRE project would be clarified.Stake-Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project.Stake-Please see answers to Q 0 and Q 1.1 and the following specific comments: holder 9- Subchapter 13.1 - paragraph 1: "in line with the RR CoBA implementation requirements of the current draft GL EB". The TERRE pilot project should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q 0, 'quick wins' should be implemented in TERRE to identify solutions		i · · · · · · · · · · · · · · · · · · ·
Stake- holder 8Provided that TSOs and NRAs work in parallel with the project implementation to harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project.Stake- holder 9Please see answers to Q 0 and Q 1.1 and the following specific comments: • Subchapter 13.1 – paragraph 1: "in line with the RR CoBA implementation require- ments of the current draft GL EB". The TERRE pilot project should provide a gap anal- ysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q 0, 'quick wins' should be implemented in TERRE to identify solutions	Stake- holder 7	pricing and settlement are harmonized before the TERRE project goes live. Otherwise, BSPs will not be able to compete fairly when put on the same CMOL. To this end, the Project Implementation Plan should also include a track to develop a harmonized set of local rules, to be consulted with stakeholders and submitted for approval to NRAs. In this way, the impact of aligning the local rules on the overall progress of
holder 8harmonise diverging market rules and features as mentioned in our response to question 12.1, we have no comment on the planning of the project.Stake- holder 9Please see answers to Q 0 and Q 1.1 and the following specific comments: - Subchapter 13.1 – paragraph 1: "in line with the RR CoBA implementation require- 	Stake-	******
Stake- holder 9Please see answers to Q 0 and Q 1.1 and the following specific comments:holder 9- Subchapter 13.1 – paragraph 1: "in line with the RR CoBA implementation require- ments of the current draft GL EB". The TERRE pilot project should provide a gap anal- ysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q 0, 'quick wins' should be implemented in TERRE to identify solutions	holder 8	harmonise diverging market rules and features as mentioned in our response to
holder 9 - Subchapter 13.1 – paragraph 1: "in line with the RR CoBA implementation require- ments of the current draft GL EB". The TERRE pilot project should provide a gap anal- ysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q 0, 'quick wins' should be implemented in TERRE to identify solutions	Stake-	***************************************
- Subchapter 13.1 – paragraph 1: "in line with the RR CoBA implementation require- ments of the current draft GL EB". The TERRE pilot project should provide a gap anal- ysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As mentioned in Q 0, 'quick wins' should be implemented in TERRE to identify solutions	holder 9	
		ments of the current draft GL EB". The TERRE pilot project should provide a gap anal- ysis of the project against de CoBA requirements. The aim of this should be to show the evolution path of the implementation according to the GL EB, rather than demonstrating that TERRE is almost fully aligned with the CoBA requirements. As
		for the final balancing market model.

[
	- Subchapter 13.1 – figure 13-1: if the TERRE project will aim to provide a pilot experi- ence, the development and integration test could be shortened.
	- Subchapter 13.2 – paragraph 4 (last): the consultation on implementation envisaged prior to the go-live should allow stakeholders to assess the "Parallel Run Phase" in a quantitative and qualitative way.
	- Subchapter 13.5 – paragraph 1: please specify the scope of the so-called "itera- tions" in the implementation activities.
	 Subchapter 13.5 – paragraph 2: periodic public reports on the Integration Tests would be of the interest of stakeholders.
Stake-	Provided that TSOs and NRAs work in parallel with the project implementation to
holder 10	harmonise diverging market rules and features, based on an appropriate cost-benefit analysis, we have no comment on the planning of the project.
	In line with our general remark on the short period of time for consultation and due to the fact that this is the first of a series of consultations, we expect that there will be further consultation on design aspects of the TERRE project. The roadmap pre- sented foresees a consultation on implementation in 2018 but market participants
	should be able to have a say on the final draft design proposal.
Stake-	• We would appreciate to have more time for a feedback in such an important con-
holder 11	sultation.
Stake-	Net An evened
holder 12	Not Answered
Stake- holder 13	13.2: Within the legal activities the liability of BSP, BRP, TSO and TERRE must be dis- cussed.
	13.3: Beginning of 2018 TERRE will submit to the NRAs the Implementation for ap- proval. Is previously a consultation of the other stakeholder planned?
Stake-	
holder 14	'
Stake-	• 13.2: Within the legal activities the liability of BSP, BRP, TSO and TERRE must be dis-
holder 15	cussed.
	• 13.3: Beginning of 2018 TERRE will submit to the NRAs the Implementation for approval. Is previously a consultation of the other stakeholder planned?
	• We would appreciate to have more time for a feedback in such an important con- sultation.
Stake-	
holder 16	Not Answered
Stake-	As already mentioned, we strongly believes that a clear view on all the arrangements
holder 17	envisaged at regional and national level for the implementation of TERRE is necessary
	for BSPs to properly prepare their participation in the new mechanism. Cooperation
	Agreement documents (eventually with some masked confidential data), IT Requests for Proposal (RFP) and Functional Specifications should be made public.
	For this reason, the next consultation on TERRE implementation seems to come too late (Q2 2018) in the process, as IT systems update and the adaptation of the rele- vant processes need to be finalised far in advance in order to respect the go-live

Stake- holder 18 Stake- holder 19	 deadline. Once their internal adaptation process has started, stakeholders should have the guarantee that the design of the mechanism is firm. Any significant change in the design would lead to additional costs and delays. We also wish to highlight that: - First, given the delay of 18 months necessary for us to be ready to participate in TERRE, any planning modification requiring to anticipate the capability of BSPs to make standard offers (as it seems to be envisaged for the parallel run) should be properly discussed with market participants to verify its feasibility; - Second, TSOs should quickly disclose the envisaged requirements for BSPs to take part in the testing and parallel run phases. In particular we consider that, if TSOs wish to start the parallel run in Q1 2018, 6 months prior to the go-live of the project, they should communicate the main technical specifications and implementation solutions (including local arrangements and the requirements for testing and parallel run), in mid-2016 with minimal evolutions throughout the following 18 months. Not Answered We note the project timescales are ambitious but achievable, and rely on close collaboration of TSOs and NRAs to work in parallel with the project implementation to harmonise divergent market rules and features. Furthermore we believe that sufficient time is required to develop, test and trial IT systems solutions, which the project plan will need to accommodate. The Project Implementation Plan foresees just one further consultation in 2018 on the implementation of TERRE in 2018. In line with our comments in Q0 regarding the short time period for this (first) consultation, we do expect there will be further timely consultations on specific detailed design elements as the project progresses. In particular, the question of how the algorithm will work has not yet been addressed and this is of crucial interest to stakeholders.
	We expect market participants to be able to comment on the final, detailed design proposal before implementation.
Stake- holder 20 Stake-	Considering the depth of document, we consider that available time to answer future consultations should be extended in order to better analysis the effect of the proposed changes
holder 21 Stake- holder 22	Not Answered Not Answered

14Possible evolutions

14.1 Q 14.1 Do you have specific comments regarding chapter 14 content? (Please indicate sub-chapter reference when possible)

Challes	
Stake-	
holder 1	
Stake-	No specific comments. We consider that main objective is to go-live in $Q3 - 2018$,
holder 2	and the possible changes of this market will depend on the evolution of the European
	electricity market.
Stake-	Given the pace of evolution in EU markets, it is paramount to have a performance-
holder 3	proven and accurate solution that is capable of adapting to new processes and prod-
 	ucts. And as important is the ease of flexibility in making these changes.
Stake-	We note that it is possible that the scope of TERRE will expand in future to additional
holder 4	processes. This implies that the initial design of TERRE, including the local arrange-
	ments that interface with it should be built with future flexibility in mind.
	• How is the TERRE Project going to design in the flexibility for different processes
	and products? RFP respondents need some idea of the type of flexibility needed. E.g.
	are the timings the same or different? How similar is the data content? Which pro-
	cesses will be common and which are product-specific?
	• How will local arrangements be involved in these decisions so that they are equally
	flexible to future change? There is a danger that if such decisions are not shared and
	consulted upon, the central TERRE systems will be able to flex, but the local arrange-
	ments that are essential for a successful TERRE operation into the future will not be.
	ments that are essential for a successful refine operation into the fature will not be.
	• This is another example of the importance of ensuring that those who are not TSOs
	but who design, build and operate the local systems that interface with TERRE are
	fully included in the design of TERRE throughout the initial TERRE Project and as it
	continues to evolve on an ongoing basis.
Stake-	
holder 5	Not Answered
Stake-	
holder 6	N/A
}	4
Stake-	We appreciate the fact that the TERRE platform is designed sufficiently flexible to ac-
holder 7	commodate other balancing products and platforms. However, as the TERRE plat-
	form is focussed on RR, with long lead-times and the optimization of social welfare
	(instead of cost minimization of activated bids), it does not seem suitable for shorter
	balancing processes such as manual Frequency Restoration Reserves (mFRR). We as-
	sume that the flexibility also extends to these elements of the algorithm and such ex-
	tensions will in any case be subject to the implementation processes foreseen in the
	NC EB.
Stake-	
holder 8	No other comments
Stake-	
holder 9	Please see answer to Q 0.
Stake-	
holder 10	We do not have further comments.
Stake-	
holder 11	• No comment
L	

Ctalia	
Stake-	Net Answered
holder 12	Not Answered
Stake-	We support the change of processes that will further allow TERRE to run sequentially
holder 13	to the established intraday markets (including those of DE and AT) and not competi-
	tive to them. Therefore, a possible introduction of additional clearings could be dis-
	cussed as one of the solutions to the aforementioned challenges.
Stake-	
holder 14	'
Stake-	An adaption of the TERRE products to potential evolutions of Market Time Resolution
holder 15	or intra-day Gate Closure Time must be conducted, to avoid an impact of TERRE on
	intra-day trading.
Stake-	
holder 16	Not Answered
Stake-	As already mentioned, we are in favour of a gradual adaptation of TERRE to the evo-
holder 17	lutions which will occur in the intra-day markets but we believe that such evolutions
	should be treated as major changes of the TERRE design requiring a new and detailed
	implementation plan. Stakeholders should also have enough visibility on the me-
	dium-term evolutions of the project in order to be able to identify technical solutions
	compatible with the developments foreseen after the first implementation phase.
	This transparency on the envisaged medium-term planning contributes to reducing
	future adaptation costs and to speeding up the transition towards new arrange-
	ments.
Stake-	
holder 18	Not Answered
Stake-	
holder 19	No comment.
Stake-	It will be important to expand the TERRE project to Replacement Reserve capacity. In
holder 20	fact, given the short time between the activation of the product and FAT of TERRE
	product, only running power plants (or very fast power plants) can deliver the prod-
	uct. On the contrary, allowing the participation of power plants that are not running,
	it will increase competition and efficiency.
Stake-	
holder 21	Not Answered
Stake-	At this stage of the design phase, we believe it is still early to discuss a potential ex-
holder 22	tension of the pilot project
	۱