TERRE

Trans European Replacement Reserves Exchange

ENTSO E BSG meeting

07th December 2017
Introduction and Project current state
**Project**

**Current status**

<table>
<thead>
<tr>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
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<tbody>
<tr>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
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<tr>
<td>TSO-TSO Platform design</td>
<td>TSO-BSP/BRP RR market design</td>
<td>Implementation Framework (GL EB requirements)</td>
<td>LIBRA platform development</td>
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**TSO-TSO design:**
- CBA
- Definition of the product
- Imbalance need
- Central Dispatch
- Unshared and Restricted bids
- Algorithm
- Settlement
- Timings

**RR market design**
- TSO-TSO model
- TSO-BSP/BRP model
- Accepted RR Product
- Harmonisation of incentives/settlement rules/deviations
- BEGCT definition
- Transparency regulation

**Implementation Framework**
- Involvement of all RR countries into discussion
- LIBRA TSO-TSO rules and design
- RR market rules and design
- Governance and cost-sharing rules

**Development of the LIBRA platform**
- Functional design
- Development main modules LIBRA
- Testing (IOP and E2E)
- Contracting of services

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<thead>
<tr>
<th>I.</th>
<th>II.</th>
<th>III.</th>
<th>IV.</th>
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<td>Today</td>
<td>Public Consultation and NRA support</td>
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Project

**Geographical scope**

**Participants**

**Membres:**
- France (Rte)
- Italie (Terna)
- Portugal (REN)
- Espagne (RED)
- Suisse (Swissgrid)
- GB (National Grid)
- République Tchèque
- Roumanie
- Pologne
- Hongrie

**Ongoing:**
- Grèce (Terna)
- Norvège (Statnett)
- Suède (Svenska Kringlanet)
- Finlande (Fingrid)
- Danemark (Energinet Dk)

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30/11/2017
Implementation Framework
RR Market
Implementation Framework-Planning

General planning – NRAs support

- **Consultation phase**
  - NRAs approval consultation on RR market harmonization

- **IF phase**
  - **Drafting period**
    - Market committee approval: 2 weeks
    - Market committee (RR) approval: 1st February
  - **Consultation**
    - 1 month
    - RR market consultation: 1st March
  - **Assessment and update**
    - 1 month
    - Market committee (RR) approval: 1st April
  - **Market committee approval**
    - 2 weeks
    - Submission to NRAs: 1st May
  - **Validation by NRAs**
    - 6 months
    - 31st May
Overview content following GLEB – NRAs support

<table>
<thead>
<tr>
<th>Content defined in EBGL</th>
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<tbody>
<tr>
<td>High level design of the platform</td>
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<td>Roadmap and timelines for implementation</td>
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<td>Definition of the functions required to operate the platform</td>
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<td>Rules for governance and operation of entity operating the platform and Proposed appointed entity</td>
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<td>Cost sharing principles</td>
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<td>Framework for harmonization of terms and conditions</td>
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<td><strong>BEGCT</strong></td>
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<td><strong>TSO-TSO GCT</strong></td>
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<td>Standard product</td>
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<td>CMOL (LIBRA PF)</td>
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<td>Description of the algorithm for the activation optimization (LIBRA PF)</td>
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<tr>
<td>TSO answer to stakeholders’ responses to the IF Consultation</td>
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**Status:**
- **Partially treated by the TERRE consultation phases**
- **Already tackled by the TERRE consultation phases**
- **Target: March 2018**
LIBRA Platform

Description and last developments

Lot B1: Optimization/Clearing algorithm
- Optimization of the bids using CMOL
- Optimization of the available CZ interconnections

Lot B2: IT interface/data management
- Interface scalable up to 50 TSOs

Lot C: Hosting
- External party will be contracted for hosting the LIBRA activities
- Flexibility on changing the hosting party towards other suppliers or TSOs
- Flexibility on upgrading the hardware following future demand

Lot D: IT monitoring service
- Monitoring of the Optimization module initially 24/7, with the possibility to decrease to 8/7 after the // run
- Monitoring of the IT interface: 24/7
- SLAs and contracting in case of failure

Lot E: Financial Settlement
- Financial settlement externally contracted
- Monthly billing system between TSOs through a centralized clearing house
- Flexibility to add new TSOs

Lot F: TESTING

30/11/2017
Thanks for your attention