

MEETING MINUTES

SUPPORTING INFORMATION FOR INTERESTED PARTIES READING THE IDSC MEETING MINUTES TO BE FOUND IN ANNEX 1

| MEETING DETAILS | | | |
|-----------------|-------------------------------|------------------|----------------|
| Project Name | SIDC – Single Intraday Market | | |
| Governance Body | Steering Committee | | |
| Meeting Date | 3 March 2020 10:45 -14:00 | Meeting Location | Teleconference |

SIDC PARTIES

| | |
|--|---|
| AFFÄRSVERKET SVENSKA KRAFTNÄT | RTE Réseau de Transport d'Electricité |
| AMPRION GmbH | SONI Limited |
| AUSTRIAN POWER GRID AG | STATNETT SF |
| AS "Augstsprieguma tīkls" | TENNET TSO B.V. |
| BRITNED DEVELOPMENT LIMITED | TENNET TSO GmbH |
| ČEPS, a.s | Terna - Rete Elettrica Nazionale S.p.A. |
| CREOS Luxembourg S.A. | TRANSNET BW GmbH |
| Croatian Transmission System Operator Ltd. | 50Hertz Transmission GmbH |
| EirGrid plc | BSP Energy Exchange LL C |
| ELECTRICITY SYSTEM OPERATOR EAD | CROATIAN POWER EXCHANGE Ltd. |
| ELERING AS | EirGrid plc |
| ELIA SYSTEM OPERATOR SA/NV | EPEX Spot SE |
| ELES, Ltd., Electricity Transmission System Operator | European Market Coupling Operator AS |
| Energinet Elsystemansvar A/S | EXAA Abwicklungsstelle für Energieprodukte AG |
| FINGRID OYJ | Gestore dei Mercati Energetici S.p.A. |
| Independent Power Transmission Operator S.A. | HELLENIC ENERGY EXCHANGE S.A. |
| LITGRID AB | HUPX Hungarian Power Exchange Company Limited by Shares |
| MAVIR Hungarian Independent Transmission Operator Company Ltd. | Independent Bulgarian Energy Exchange |
| NATIONAL GRID INTERCONNECTORS LIMITED | OMI-Polo Español, S. A |
| National Power Grid Company Transelectrica S.A. | Operatorul Pietei de Energie Electrica si de Gaze Naturale "OPCOM" S.A. |
| Polskie Sieci Elektroenergetyczne S.A. | OTE, a.s |
| Red Eléctrica de España, S.A.U. | SONI Limited |
| REN – Rede Eléctrica Nacional, S.A. | Towarowa Giełda Energii S.A. |

3RD PARTIES:

ACER
ENTSO-E
Ernst & Young, s.r.o
BEA
MODO
Indra
E-Bridge
Artelys

AGENDA

| Agenda Topic | Time |
|---------------------------------------|-------------------|
| 1) Welcome | 10:45 – 10:55 |
| 2) Approve minutes and review actions | 10:55 – 11:00 |
| 3) QARM | 11:00 – 12:15 |
| 4) OPSCOM report | 12:15 - 12:30 |
| 5) LTF report | 12:30 – 12:45 |
| 6) NEMOs and TSOs Report | Session file only |
| 7) Com SG | 12:45– 13:00 |
| 8) Market & System Design | 13:00 – 13:20 |
| 9) BMSG Report | 13:20 – 13:30 |
| 10) Any Other Business | 13:30 – 13:45 |

1. Welcome

The IDSC Co-Chairs open the meeting by welcoming the SIDC members on the teleconference.

It was noted that the physical meeting was cancelled due to the current development concerning the spreading of the SARS-CoV-2 virus and connected travel restrictions for IDSC members. As a result the agenda was shortened so that the IDSC teleconference concentrates on the topics, which require IDSC discussion or decision in order to move forward.

The agenda for the meeting is presented and approved by the IDSC.

2. Approve minutes and review actions

The minutes from the IDSC held on 29 January 2020 are approved.

3. QARM Report

QARM Convener presented the experience with the agile approach pilot and evaluation and exit criteria for the decision concerning the use of the agile approach for the future developments (expected by May 2020). Furthermore he updated the IDSC concerning 2020 planning, intraday auctions governance and 2019 annual reporting.

4. OPSCOM Report

The OPSCOM convener informed the IDSC that the OPSCOM Convener role will be filled by a representative from EMCO from 1.7.2020 until 30.6.2021. Due to the lack of time, the OPSCOM Convener did not present the OPSCOM report.

5. LTF Report

The LTF Conveners presented the outcome from the meeting concerning the enduring governance. Mostly the transition phase was discussed. Legal and business consequences have to be deeper analysed. After an consensus is reached, it will be provided to all TSOs and all NEMOs for vote.

6. NEMOs and TSOs Report

Since the reports were provided only for information, the slides were not presented due to lack of time.

7. Communication Support Group

The COM SG convener presented the recent work under COM SG (Transit shipping letters to NRAs, 2nd wave celebration event preparation, MESC slides). A press release will be prepared summarizing the positive development of the market after 2nd wave go-live.
agement Subgroup and XTG co-conveners for 2020

8. Market System Development Report

MSD convener presented the status of the R3.0 Package 1 CRs analysis.
He informed the SIDC of potential delay of some of the MSD tasks due to the prioritization of the work on the XBID R3.0 Package 1, shipping enduring solution, intraday auctions and losses.

9. BMSG Report

Since the reports were provided only for information, the slides were not presented due to lack of time

10. Any Other Business

The IDSC agreed to hold the meeting on 1.4.2020 as teleconference instead of physical meeting.

Last update: 04/10/2019

ANNEX 1
Single Intraday Coupling (SIDC)
Intraday Steering Committee (IDSC)
Supporting Information for Interested Parties reading the
IDSC Meeting Minutes

1. What is the Intraday Steering Committee (IDSC)?

The IDSC is the main governance group that oversees the Single Intraday Coupling. It consists of 46 parties (NEMOs and TSOs) who are responsible for overseeing the operation, further expansion and development of SIDC.

2. What is the Single Intraday Coupling (SIDC) initiative?

The aim of SIDC, formerly known as the XBID, Cross Border Intraday project, is to create a single pan European cross zonal intraday electricity market. An integrated intraday market will increase the overall efficiency of intraday trading by promoting effective competition, increasing liquidity and enable a more efficient utilisation of the generation resources across Europe.

SIDC is an initiative between the Nominated Electricity Market Operators (NEMOs) and Transmission System Operators (TSOs) which enables continuous cross-border trading across Europe.

The SIDC Solution was first launched on 12th/13th June 2018 across 14 countries. In the first 14 months of operation over 20 million trades have been completed.

It is based on a common IT system with one Shared Order Book (SOB), a Capacity Management Module (CMM) and a Shipping Module (SM). This means that orders entered by market participants for continuous matching in one country can be matched by orders similarly submitted by market participants in any other country within the project's reach if transmission capacity is available.

The intraday solution supports both explicit (where requested by NRAs) and implicit continuous trading and is in line with the EU Target model for an integrated intraday market.

3. Why is the intraday market so important to integrate European markets?

There are three different physical markets for trading electricity; Forward Market, Day- Ahead Market and Intraday market before delivery hour.

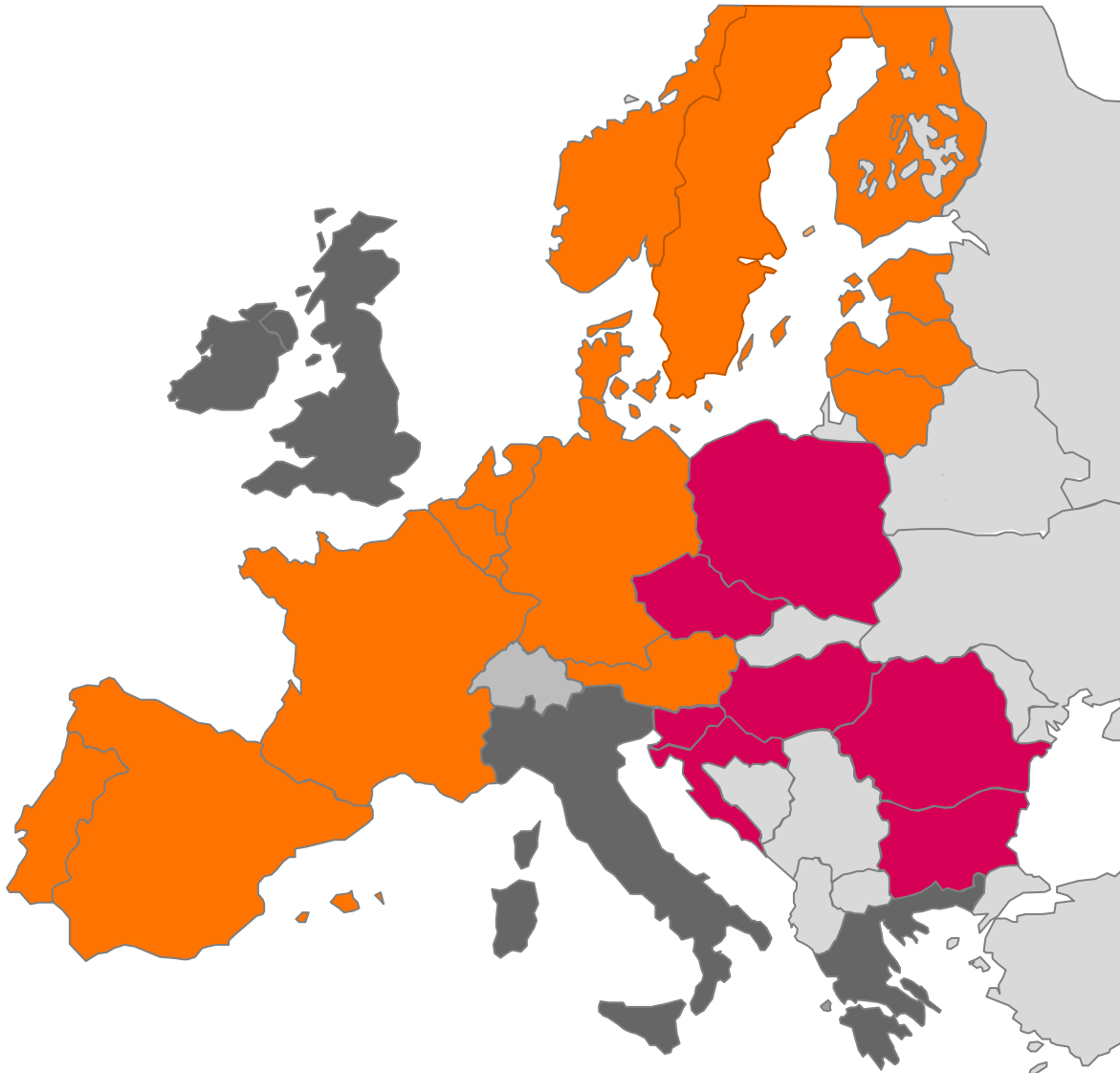
An integrated intraday market will promote effective competition and pricing, increase liquidity and enable a more efficient utilisation of the generation resources across Europe. With the increasing amount of intermittent production, it becomes more and more challenging for market participants to be in balance after the closing of the Day-Ahead market. Therefore, interest in trading in the intraday markets is increasing. Being balanced on the network closer from delivery time is beneficial for market participants and for the power systems alike by, among others reducing the need of reserves and associated costs.

4. What is the geographical scope of the initiative?

The first go-live in June 2018 included 14 countries: Austria, Belgium, Denmark, Estonia, Finland, France, Germany, Latvia, Lithuania, Norway,

The Netherlands, Portugal, Spain and Sweden. A second go-live with further countries – Bulgaria, Croatia, Czech Republic, Hungary, Poland, Romania and Slovenia - is foreseen in Quarter 4 2019. A third go-live is also foreseen but a date for this is not confirmed at present.

Picture 1: Countries coupled by SIDC solution in 1st Wave Go-Live, shown in orange (13th June 2018) and 2nd Wave, shown in purple (planned for Q4 2019)



Please note: Luxembourg is part of the Amprion Delivery Area. Market participants in Luxembourg have access to the SIDC through the Amprion Delivery Area

5. Who are the partners involved?

The parties involved are:

Transmission System Operators (TSOs):

50HERTZ, ADMIE, AMPRION, APG, AST, BritNed, ČEPS, CREOS, EirGrid, ELERING, ELES, ELIA, ELSO, ESO, FINGRID, HOPS, Litgrid, MAVIR, NGIC, PSE, REE, REN, RTE, SONI, STATNETT, SVENSKA KRAFTNÄT, TenneT DE, TenneT NL, TERNA, TRANSELECTRICA and TransnetBW.

Nominated Electricity Market Operators (NEMOs):

BSP, CROPEX, EirGrid, EPEX, EXAA, GME, HEnEx, HUPX, IBEX, Nord Pool EMCO, OMIE, OPCOM, OTE, SONI and TGE.

Please note integration of Swiss borders is not going to be possible due to the intergovernmental agreement on electricity cooperation not having been reached by end of 2016 [CACM Article 1 (4) & (5)]. In consequence, Swissgrid left the project in January 2017.

6. What is the relation between the SIDC project and the network codes/guidelines?

The SIDC initiative is a multiparty project working on the implementation of the SIDC Model being a continuous intraday market, based on a single capacity management module and a shared order book within a one-to-one relationship. The Guideline on Capacity Allocation and Congestion Management (CACM GL) endorses this SIDC Model. The CACM GL sets out, amongst others, the methods for allocating capacity in intraday timescales, rules for operating intraday markets and the basis for the implementation of a single electricity market across Europe.

SIDC is in line with the provisions of the CACM GL and the parties in the project fulfil the future requirements of CACM through their involvement.

7. Who is the system provider of the SIDC Solution?

The system provider is Deutsche Börse AG (DBAG).

8. What does this system do?

The orders submitted by the market participants of each NEMO are centralised in one shared order book (SOB). Similarly, all the intraday cross-border capacities are made available by the TSOs in the Capacity Management Module (CMM).

Order books displayed to the market participants via the usual NEMOs' trading systems contain orders coming from other participants of the concerned NEMO and also orders coming from other NEMOs for cross-border matching, provided there is enough capacity available.

Orders submitted for different market areas can be matched provided there is enough capacity available. In such a case, the order matching is associated with implicit capacity allocation. Concretely, when two orders are being matched the SOB and CMM is updated immediately. Trade is done on a first-come first-served principle where the highest buy price and the lowest sell price get served first. The update of SOB means that the orders that were matched are removed, and consequently that the available transmission capacity in the CMM is updated. For how many borders the capacities are updated depends on where the matched orders were located geographically.

For borders where NRAs requested for it, explicit allocation is made available to Explicit Participants (currently at the FR-DE border and planned for the SL-HR in the 2nd wave go-live).

During the trading period, available capacities and order books are simultaneously updated on a continuous basis.

The Shipping Module (SM) of the SIDC Solution provides information from trades concluded within SIDC to all relevant parties of the post-coupling process. The SM receives data from the SOB about all trades concluded:

- Between two different Delivery Areas
- In the same Delivery Area between two different Exchanges

The data from the SOB and the CMM are enhanced with relevant TSO, Central Counter Party (CCP) and Shipping Agent data from the SM and transferred to the parties at the configured moments.

9. What is the gain for market participants?

The solution is expected to increase the liquidity of the newly coupled intraday continuous markets, since orders submitted for the purpose will be potentially matched with orders submitted in any other participating country. In other words, orders that could not be matched in local markets increase their probability of being matched in the larger integrated market. In addition, the solution facilitates the operational tasks of intraday cross-border scheduling, since the capacity allocation and energy matching processes is done simultaneously. As a consequence, market efficiency is also expected to increase, to the benefit of the market participant.

10. How will this impact/how does this benefit the end consumers?

The direct benefit for the end consumer is expected to be positive, and the end consumers will benefit from this initiative increasing the overall wholesale market efficiency and facilitate the integration of the RES in the market. More concretely market participants having larger possibilities to be balanced before the hour of delivery will contribute to reduce the costs of reserves.

11. How does the SIDC project interlink with the PCR Day-Ahead project?

There is no direct interlink between these two projects other than the participating TSOs and NEMOs are mostly the same. However, both projects share the same purpose of implementing the European target models for electricity. Co-ordination is taking place between the senior leaders and project management teams of the two projects. In the future, in line with CACM requirements, it is expected that the governance for the ID and DA projects will progressively merge.

12. What are the Local Implementation Projects (LIPs)?

To implement the SIDC solution Local Implementation Projects (LIPs) were set up. Over 15 LIPs have been established so far. A LIP consists of one or more borders, one or more TSOs and one or more NEMOs. The LIPs main tasks are adaptation of local arrangements (i.e. procedures, shipping, contracts), IT system adjustments, secure equal treatment between NEMOs and implicit/explicit access and ensuring readiness for the participation in the SIDC LIP testing.

The LIPs are monitored via the SIDC Steering Committee where individual LIP's progress is reported. Further each LIP has set up a formal governance structure within the LIP (i.e. project manager, Steering Committee, etc.).

13. What are the responsibilities of the different groups mentioned in the IDSC minutes?

| Title | Responsibility |
|--------------------------------------|---|
| IDSC – Intraday Steering Committee | The IDSC is the highest level of governance in SIDC and tracks project status, risks, issues etc. as well as making strategic decisions and managing escalations within the project. |
| OPSCOM and ICCC – Incident Committee | OPSCOM is the governance body responsible for the ongoing operation of SIDC solution. It reviews operational performance and incidents. The ICCC was established to ensure that there is the ability to hold Incident Calls in the event of SIDC (XBID) system incidents. |
| ICT – Integrated Co-ordination Team | The ICT is responsible for ensuring all streams of activity in the project are co-ordinated by means of an Integrated Plan. All |

| | |
|---|---|
| | Project Managers, PMOs and TF/SG leads attend and update progress against the project plan including identifying dependencies/risks/mitigations etc. Issues are escalated to the Co-Chairs of the IDSC. |
| BM SG – Budget Management Support Group | The BM SG is responsible for the financial management of the project. This includes budgeting, cost validation, financial reporting, and the cost resettlement processes in accordance with CACM, NRA cost reporting etc. |
| COM SG – Communications Support Group | The COM SG is responsible for stakeholder management. This includes developing material for meetings with the European Commission, NRAs, MESC etc. It is also responsible for drafting press releases. COM SG is also responsible for larger events such as Pre- Go-Live Launch Events. |
| OTF – Operational Task Force | The OTF is responsible for the description of Roles & Responsibilities, Operational procedures, and maintenance and testing of procedures. |
| SG Losses – Sub Group Losses | The SG Losses focuses on designing the concept for Losses on DC Interconnectors and specifying the requirements. Also for undertaking functional specification reviews etc. It is also responsible for aspects of the concept such as single sided trades. |
| MSD – Market & System Design | The MSD is responsible for functional and technical aspects related to the software and infrastructure solution of XBID. This includes ensuring that IT requirements are specified for the DBAG solution and the review of functional specifications. It is also the joint body where technical decisions are made. |
| LIP – Local Implementation Project | A LIP is a project which manages a border/interconnector or group of borders/interconnectors to enable them to ‘go-live’ on the SIDC solution. A LIP will manage a plan covering local system adaptations, contractual changes, regulatory approvals and testing. There have been/are over 15 different LIPs (past and present). |
| LIP Testing – Local Implementation Project Testing and Co-ordination (also known as LTC). | The co-ordination of testing across the LIPs is essential. The LTC co-ordinates preparation and execution of testing such as Connectivity, Functional Integration (FIT) and Simulation Integration (SIT) with a focus on local systems integration with XBID and the support of End-to-End tests executed together with XTG etc. Reporting on progress is made to the IDSC. The role has been in place for the 1 st and 2 nd wave go-lives. |
| L TF – Legal Task Force | The L TF is responsible for the legal aspects of SIDC including drafting/review of legal agreements associated with the project. This includes contractual aspects relating to contracts with service providers and importantly, the Intraday Operational Agreement (IDOA). |
| XTG – SIDC (XBID) Testing Group | The XTG is responsible for testing the SIDC (XBID) solution. It manages this testing across NEMOs and TSOs for all of the modules (CMM, SM, SOB). The XTG assesses, plans and delivers the testing for each testing phase (e.g. User Acceptance Testing, UAT). The XTG interfaces with DBAG and ensures, for example, that the contractually agreed exit criteria are met for each testing phase. The XTG also have an important interface with the LTC. |

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| GLC – Go-Live Co-ordinator | The GLC plays a critical role in ensuring that all parties are prepared for go-live (geographical extensions). This involves defining the Go-live strategy and approach as well as identifying the activities that needed to be completed for a successful go-live. As an example, the GLC tracked the completion of over 700 items for the 1st Go-Live. |
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14. And what do all the acronyms mean?!!!

| Abrv. | Terms |
|-------------------------|--|
| AOB | Any Other Business |
| AP | Action Point |
| ASR | Additional Service Request |
| BBP | Business Blueprint |
| CC | Conference Call |
| CET | Central European Time |
| CR | Change Request |
| DST | Daylight Savings Time |
| EoB | End of Business |
| EoD | End of Day |
| EoY | End of Year |
| EU | European Union |
| FS | Functional Specification |
| FTF | Functional Task Force |
| HL | High Level |
| ID SC | Intraday Steering Committee |
| IMT | Incident Management Tool |
| INC | Interim NEMO Committee |
| JSC | Joint Steering Committee |
| LIP | Local Implementation Project |
| MSD | Market & System Design |
| NEMO | Nominated Electricity Market Operator |
| OBK | Orderbook |
| PM | Project Manager |
| PMI | Public Message Interface |
| PMO | Project Management Office |
| PP | Project Place |
| PTF | Performance Task Force |
| QARM / QA&RM | Quality Assurance and Release Management |
| R#.# | Release number #.# |
| RCB | Release Control Board |
| RTS | Realistic Test Scenario |
| SC | Steering Committee |
| SLA | Service Level Agreement |
| SPOC | Single Point of Contract |

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|------------|------------------------------|
| TBD | To Be Defined |
| TSO | Transmission System Operator |
| TWG | Technical Working Group |
| WS | Workshop |
| WG | Working Group |
| XTG | XBID Testing Group |