



EUROPEAN COMMISSION

Directorate-General for Communications Networks, Content and Technology
Directorate-General for Energy

2ND WORKSHOP ON

FLEXIBILITY MARKETS OF THE FUTURE AND TSO-DSO COOPERATION

ORGANISED BY THE EUROPEAN COMMISSION IN COOPERATION WITH ENTSOE, EDSO, CEDEC, CEER, EURELECTRIC, GEODE & SMART ENERGY SYSTEMS ERA-NET

13 February 2020, Auditorium Breydel, Avenue d'Auderghem 45, Brussels

On 24 October 2019 the first workshop on projects that address flexibility markets of the future and TSO-DSO cooperation took place in Brussels. The aim was to discuss the experiences of projects testing the requirements of the Clean Energy Package to create markets for flexibility that will enhance the integration of renewable electricity in the system as well as the active involvement of new participants in those markets at the demand-side to supply services to the system in an efficient and secure way. The more than 20 presentations showed that there are different ways to approach flexibility markets. This is reflected in the multiplicity of existing platforms, the difference in functionalities and the size of the incorporated flexibility (e.g. focus on large assets or also household appliances). It was widely agreed that the goal is not to establish a single data exchange platform but to ensure interoperability at all levels, based on open API's.

After the projects presented themselves in October 2019, the focus of the second edition of the workshop is on discussion. In each session a presenter will briefly elaborate their views on the questions for debate, but the aim is that the discussion will be interactive with as many projects/platforms/parties involved.

The key questions that emerged from the first workshop will be addressed in four sessions. The first two sessions target the market organisation, focusing on the products and on the link to other (existing) markets. After lunch the data management aspect will be discussed, especially with a view on how all the necessary data is acquired (proprietary data) and if and how open API's are used. The last session then covers the elements needed/to consider in order to successfully turn a project into a market solution in line with the requirements of the Clean Energy Package.



2nd Workshop on Flexibility Markets of the Future and TSO-DSO Cooperation
13 February 2020

No.	Time	Description	Speaker
1	08.30	<i>Registration and coffee</i>	
2	09.00	Welcome and introduction	Haitze Siemers, Head of Unit DG Energy C2 – New energy technologies, innovation and clean coal
3	9.15	Keynote speech – Regulators’ expectations of the workshop	Veli-Pekka Saajo, Chair Distribution System Working Group, CEER
4	9.30	Results of the TSO-DSO cooperation survey in the Member States	Peter Hermans, Leader EDSO Task Force Flexibility Coordination Mechanisms; Victor Charbonnier, ENTSOE
5	9.45	Key recommendations based on the results of the BRIDGE surveys done by the <ul style="list-style-type: none"> - Regulations Working Group - Data Management Working Group 	Helena Gerard, VITO; Kalle Kukk, Elering
6	10.00	<p>Session 1: What are the products in your market?</p> <ol style="list-style-type: none"> 1) How do you define the flexibility you procure? (e.g. do you define a set of product requirements, or a set of key parameters, or asset-specific products)? 2) Are the defined services/products/parameters used in your project adapted to the specific characteristics of your network or can they be universally used? 3) Do you use a contract for consumers/assets/appliances to participate in the flexibility market? (Is it a standardised contract? Do you pay for the capacity and/or the actual use of the flexibility? Do you allow free bids (without availability contract)?) 4) Is grid and/or product prequalification organised? If so, how? (Do you require a type of certification of a consumer appliance or asset before participation in the flexibility market is possible? If yes, what and why?) 5) Do you combine several products/services in one common flexibility market (joint procurement)? If so, which services/products can be combined and what are the benefits and potential pitfalls? <p>5 minute presentations addressing the questions followed by a panel discussion.</p> <p><i>Short coffee break in the middle.</i></p> <p>Moderator: Guido Bortoni, Adviser to the DDG - Internal</p>	<p>EU-SysFlex – Helena Gerard, Vito</p> <p>ENERA – Philippe Vassilopoulos, EPEX Spot</p> <p>DA/RE – Sara Rodriguez, TransnetBW</p> <p>InterFlex – Christian Dumbs, Enedis</p> <p>NODES – Enno Böttcher,</p> <p>CoordiNet – Kris Kessels, Vito</p>

		Energy Market Regulation, DG Energy	
7	12.00	<p>Session 2: How is the link to other markets organised?</p> <ol style="list-style-type: none"> 1) How do you assess the impact of design choices on existing markets (day-ahead, intraday, ancillary services...) and on harmonisation, integration and interoperability of markets? 2) How do you ensure that flexibility markets, dynamic connection agreements and dynamic grid tariffs fit together? Where do you see synergy potentials for consumers and system operators? 3) What cannot be solved by the market, i.e. which products/services should be tackled via regulated systems? 4) How transparent is your market? What data do you provide? (e.g. electricity flows, grid observation data, availability and impact of different grid assets)? 5) How are the different tasks – especially the running of a platform - split between the regulated and the commercial area and why? If running a platform is not a regulated activity, how do you prevent market abuse? <p>5 minute presentations addressing the questions followed by a panel discussion</p> <p>Moderator: Bente Hagem, Economic and Policy Analyst, DG Energy B – Internal Energy Market</p>	<p>GOPACS – George Trienekens, TenneT</p> <p>CoordiNet – John Backe, EON</p> <p>Cornwall Local Energy Market – James Atkinson, Centrica</p> <p>GOFLEX – Ludwig Karg, B.A.U.M</p> <p>Tiko – Kátrín Schwersen</p>
8	13.00 ÷ 14.00	<i>Networking Lunch</i>	
9	14.00	Presentation on the EDSO survey in the Member States	Peter Hermans, Leader EDSO Task Force Flexibility Coordination Mechanisms
10	14.10	<p>Session 3: What's the data interface to be harmonised?</p> <ol style="list-style-type: none"> 1) What additional data do you need from whom and in what time frame for your project/platform (e.g. real time topology data from network operator)? How do you bring it all together? 2) What data sharing arrangements do you have or need to conclude with whom? For what type of data? What does that require from the market participants in terms of IT infrastructure? 3) How do you ensure/facilitate easy access to proprietary data you need for your project (e.g. do you get data from consumer assets directly or indirectly, for instance through a platform?)? 4) Do you use open APIs in your project? If so, for what interfaces? <p>5 minute presentations by projects addressing the questions followed by 10 minute presentations of initiatives addressing data-sharing. The session will then be concluded with a panel</p>	<p><i>Projects:</i></p> <p>PlatOne – Antonello Monti, RWTH Aachen University</p> <p>InterConnect – José Manuel Terras, EDPD</p> <p>INTERRFACE – Jan Segerstam, Empower</p> <p>IO.Energy – Manoël Reking, Elia</p> <p><i>Initiatives:</i></p> <p>Data Access Alliance Initiative – Georg Rute, Elering</p> <p>Energy Data Exchange</p>

		discussion. Moderator: Rolf Riemenschneider, Head of Sector, DG Communications Networks, Content and Technology E4 – Internet of Things	Framework – Klaas Hommes, TenneT EDA (Energy Data Exchange) - Leo Kammerdiener
11	16.00	<i>Coffee break</i>	
12	16.30	<p>Session 4: What's the business case?</p> <ol style="list-style-type: none"> 1) What's the value in running a platform? 2) Who earns money? Where is the money coming from (e.g. from consumers via network tariffs or based on avoided curtailment costs or avoided network investments) and how do you set prices for flexibility? 3) If your market has limited liquidity, does your cost of curtailment put a cap on the price of flexibility? If there are no costs for curtailments, what kind of caps do you have? 4) (for R&I projects): will the project/platform/market continue when the R&I funding stops? <p>5 minute presentations addressing the questions followed by a panel discussion</p> <p>Moderator: Sabine Crome, Policy Officer, DG Energy B3 – Retail markets; coal&oil</p>	<p>ENERA – Philippe Vassilopoulos, EPEX Spot</p> <p>OSMOSE – Gorazd Ažman, ELES</p> <p>Sonnen – Felix Dembski</p> <p>TRINITY – Álvaro Nofuentes Prieto, Etra</p> <p>INTERFACE – Dagmar Ilp, Elering</p>
13	17.30	Wrap-up & closing	<p>Victor Charbonnier, ENTSOE Steering Group TSO-DSO Interface</p> <p>Santiago Gallego, EDSO</p> <p>Jan Pedersen, GEODE</p> <p>Andrea Przybyla, CEDEC</p> <p>Ludwig Karg, Smart Energy Systems ERA-Net</p> <p>Veli-Pekka Saajo, CEER Chair Distribution System Working Group</p> <p>Paul de Wit, Chair of Working Group Institutional Frameworks, Eurelectric</p> <p>Tadhg O'Briain, Deputy Head of Unit, DG Energy B3 – Retail markets; coal & oil</p>
	18:00	End	

*Master of ceremony during the day: Mark van Stiphout, Deputy Head of Unit, DG Energy C2 –
New energy technologies, innovation and clean coal*

Annex – further questions for the panel discussions

Session 1

- 1) Which innovative market options with regards to security of the system have you identified/developed?

Session 2

- 1) How do you interact with the other side as an actor in the regulated/commercial area?
- 2) How can system operators fulfil their role as neutral market facilitators in commercial activities?

Session 3

- 1) From the data side, to what extent do you take into account joint procurement (cf. session 1 question 5)?
- 2) How do you organise data transfer between the regulated area and the commercial area?

Session 4

- 1) Are additional financial incentives (e.g. from the regulatory framework or NRA) needed to encourage system operators to procure flexibility?
- 2) What's the impact of innovations in network planning on flexibility markets and network operation and how do you take that into account?