



Grid Integration of Variable Renewables Power System Flexibility – Expert Workshop

13th February 2019

Paris, France



Background information

Cost-competitive Variable Renewable Energy (VRE), digitalization and decentralization are increasingly shaping the transformation of power systems around the world. In this context, the coordinated deployment of all flexibility sources – power plants, grids, demand response and storage - has become a crucial element to accelerate the shift to clean electricity, while limiting costs and ensuring system security.

Recent International Energy Agency (IEA) analysis highlights the need for taking action on renewables integration as countries move onto higher stages of VRE penetration. In addition, the IEA has found that addressing system integration is not only relevant for countries with significant VRE shares, but also offers opportunities to facilitate energy access, affordability and system stability at early stages of VRE deployment.

Within the framework of the Clean Energy Ministerial, the Power System Flexibility Campaign provides a forum for government and non-governmental stakeholders to identify key challenges and concrete actions - trailing from the operational level to the overarching institutional and policy framework. These efforts to accelerate and manage energy transitions draw on various pools of expertise: the IEA's GIVAR network, PSF membership, and the findings accumulated through the 21CPP's work.

In this vein, the PSF's Expert Workshop to take place on 13th February 2019 in Paris will be an opportunity to discuss the present findings of the campaign as well as advance the discussion in preparation for both, the 10th Clean Energy Ministerial and the publication of campaign's final report. The workshop will bring together international energy experts through a combination of expert presentations, panel discussions and closed-door deep-dive sessions. The targeted public are professionals of the power sector, including energy planning and modelling professionals, policy makers, regulators, power system operators amongst others.

HIGH LEVEL WORKSHOP

Challenges and opportunities for Power System Flexibility

13 FEBRUARY 2019

Ministère des Affaires Etrangères et du Développement International – 27 Rue de la Convention, 75015 Paris

09h00	Doors open and refreshments
9h30	Opening Remarks <ul style="list-style-type: none">• IEA Senior management• Co-lead representatives<ul style="list-style-type: none">○ Wang Shunchao – EPPEI, China○ Jonas von Freiesleben – Denmark○ Ellen von Zitzewitz – BMWi, Germany
09h45	<i>“Embedding integration - Ensuring policy relevance at all levels of VRE integration”</i> <i>Input presentation</i> <i>“Update on the PSF campaign and global state of play for power system flexibility”</i> Simon Mueller – Head of Unit SIR (10 min) Panel (10 minute input each): <ul style="list-style-type: none">• Francisco Martínez Conde del Campo – Sustainable Energy Department, Ministry of Energy, Chile• Emanuele Taibi – International Renewable Energy Agency• Sandhya Sundararagavan – Center for Study of Science, Technology and Policy, India• Fernando de Sisternes* – ESMAP, Worldbank
10h45	Coffee Break
11h00	<i>“Systems in transition – bridging the gap between models and operations”</i> Moderated by Peerapat Vithayasrichareon Panel (10 minute input each): <ul style="list-style-type: none">• Jon O’Sullivan – EirGrid (Ireland)• Renato Haddad – Empresa de Pesquisa Energetica (Brazil)• Thomas Ackerman – Energynautics (Germany)
12h30	Lunch
13h30	<i>“Carrot and stick – getting the instruments right for evolving system needs”</i> Moderated by Szilvia Doczi Panel (10 minute input each): <ul style="list-style-type: none">• Sotiris Georgiopoulos – UK Power Networks• Philippe Vassilopoulos – EPEX Spot• Michael Hogan – Regulatory Assistance Project
15h00	Coffee break
15h15	<i>“Electrification and the potentials for cross-sector system integration”</i> Cedric Philibert Panel (10 minute input each): <ul style="list-style-type: none">• Timon Dubbeling – ACM Netherlands• Adam Hart – Chargepoint• Volkmar Pflug – Siemens Energy Consulting
16h45	General discussion and next steps
17h30	End of Meeting

Final participants to be confirmed*