



POWER SYSTEM FLEXIBILITY

Harnessing Technology and Markets
for Power System Transformation

A campaign associated with the CEM Multilateral Wind and Solar Working Group
and the 21st Century Power Partnership

The Power System Flexibility Campaign seeks to build momentum amongst industry and governments to enhance power system flexibility through the coordinated deployment of advanced power plants, grids, DSR and storage

Objectives

- Deepening understanding of available flexibility resources
- Harnessing digitalization for a flexibility and resilience in the power system
- Highlight policy options for cost-effective flexibility deployment
- Showcase innovative and scalable approaches



Overview

The PSF is the continuation of the Advanced Power Plant Flexibility Campaign and was launched at CEM9 in Copenhagen, Denmark.

Broadening the scope from power plants to additional flexibility resources increases the potential for cost-effectiveness in system transformation, enabled by digitalization and enhanced through market design.

Analytical scope

Power Plant Flexibility

- Enhanced understanding of retrofit costs
- Provision of flexibility from VRE technologies
- Advanced synthetic fuels e.g. ammonia and hydrogen

Demand Side Resources

- Roll-out and cost-recovery of smart meters
- Regulatory aspects linked to new business models
- Technology costs and feasible applications of DSR

- Advanced technologies for grid management
- Modern approaches to improve network utilisation
- Strategies to ensure system security at low inertia levels

- Increasing availability and range of storage technology
- Applications of storage and colocation and VRE
- Deployment opportunities across the power system

Grids

Storage



CLEAN ENERGY
MINISTERIAL
Advancing Clean Energy Together

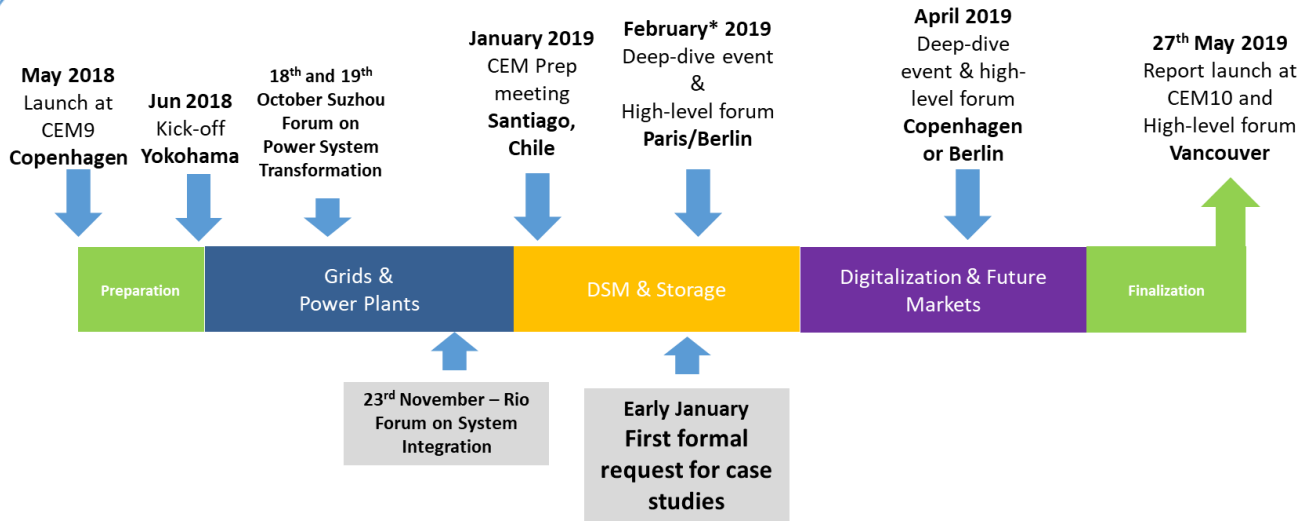
21st Century
POWER PARTNERSHIP
Accelerating the transformation
of power systems



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Campaign timeline



Campaign partners

Co-leads



CEM Members



Industry and Think tanks



How to participate

The International Energy Agency is the PSF operating agent.

For enquiries regarding events, insights and membership, please contact Enrique Gutierrez
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System Integration of Renewables

The PSF network is growing and we welcome new participants!

