21st Century Power Partnership (21CPP)

Accelerating the transition to efficient, reliable, clean, and cost-effective power systems

Goals

21CPP advances power system transformation by facilitating collaborative research, information-sharing, and capacity-building among power system practitioners to promote integrated policy, regulatory, financial, and technical solutions for the deployment of clean energy in combination with large-scale energy efficiency and smart grid deployment.

Rationale for being included in the CEM

Over the next two decades, power systems around the world will incorporate larger amounts of various generation technologies and new services. Power system flexibility and integration of renewables could facilitate a transition to clean energy. It is estimated by 2035, $16.9 trillion (USD) of power system investment will be required to achieve the goals of energy sustainability, security and access. Ensuring these investments happen at the requisite scale requires integrated policy approaches reflecting state-of-the-art knowledge across many domains.

Key accomplishments

- Enabled Mexico’s comprehensive electricity sector reform agenda to proceed quickly and efficiently through four years of deep collaboration with the Secretary of Energy (SENER) on policy, market, and technical issues.
- Built confidence and ambition in India’s 175 GW renewable energy target by conducting a detailed grid integration study in collaboration with the Greening the Grid program.
- Published over a dozen thought leadership reports to inform stakeholders of best practices and innovative thinking in power system transformation.

“Overall, 21CPP was arguably the best example of a well thought through and well delivered CEM initiative, and could be used as a case study for other initiatives in the future.”

–CEM Review 2017
Work organisation and structure of the initiative

The work is structured around the following categories:

- Thought leadership studies that focus on generic power system transformation topics across the world.
- In-country technical assistance, often as part of a larger development assistance effort, focused on policy, regulatory, and technological progress, with grid integration studies often highlighting this work.
- Information exchange, capacity building, fellowship programs, and other exercises to share lessons learned and knowledge transfer.

Recent activities and deliverables since 2017

Thought leadership publications:


In-country activities:

- Multiyear technical assistance programs support power system transformation in Brazil, China, India, Mexico, and South Africa.

Forward-looking priorities and actions

- Launch the new distributed generation campaign at CEM9, led by Mexico.
- Continue deep in-country technical assistance in Brazil, China, India, Mexico, and South Africa.
- Support collaboration in newest 21CPP member countries (Brazil and others).
- Expand outreach and membership among CEM members.
- Provide greater leveraging of activities with other CEM initiatives and campaigns: Multilateral Solar and Wind Working Group (MSWWG), International Smart Grid Action Network (ISGAN), and Advanced Power System Flexibility Campaign (APSF), as well as other relevant work streams.
- Establish regional initiatives starting in Latin America that share lessons learned among leading practitioners.
- Collaborate with Edison Electric Institute and other utilities around the world to highlight innovative tariff measures to ensure customer satisfaction.