

Maharashtra Power System Transformation Workshop

Agenda

18th February 2020

Venue: MSEDCL, Head Office, Prakashgad, Bandra East, Mumbai

Partners:



International
Energy Agency

IEA Program for Maharashtra Power System Transformation Workshop 2019-2020

India is the third-largest energy consuming country in the world. Per-capita electricity consumption is still around a third of the world average, but total Indian electricity demand is expected to continue expanding driven by further industrialisation, population growth and increased urbanisation. India faces a triad of challenges: how to i) expand energy access, ii) meet growing electricity demand and iii) integrate renewable energy, all while transitioning to a low-carbon electricity system to achieve ambitious economic, social and climate objectives.

The International Energy Agency (IEA) with the sponsorship of the British High Commission in partnership with NITI Aayog and Prayas Energy organises a **Maharashtra Power System Transformation Workshop** to inform the state government's actions for system integration of solar and wind.

The increasing share of solar and wind energy in Maharashtra (up from 6.5% today) will redefine how the state's power system is organized, planned and operated in the coming years. IEA's global work on power system transformations categorizes six phases of renewable integration which need to be successfully managed. Maharashtra is close to enter Phase 3 of this transformation. Other international regions such as Denmark, UK, Australia, Germany, various Chinese provinces and US States have already faced similar challenges. This workshop will also highlight what the State of Maharashtra may learn from these international experiences and how it fits with its own system transformation.

The workshop will bring together local Maharashtra stakeholders including the SLDC, DISCOMs, the regulator, power producers and battery storage stakeholders. The engagement will be coordinated by IEA, NITI Aayog and Prayas. The state views are complemented with international insights from IEA, RAP, GIZ and India national insights from the Prayas, Centre for Energy regulation, IESA, TERI and more.

The workshop provides a platform for local and international experts to share ideas and identify key recommendations for power system planning, operation and flexibility for a successful increasing integration of variable renewable energy in Maharashtra.

Maharashtra Power System Transformation Workshop 2020

February 18th, 2020, Location: Mumbai, Partners: IEA & NITI Aayog & Prayas

9h45 – Opening and Introduction 10h45

1. International Context and Introduction
by Mr. Edwin Haesen, Head of Unit System Integration of Renewables, International Energy Agency – 10 mins
2. National context setting and welcome
by Mr. Rajnath Ram, NITI Aayog, Adviser Energy – 10 mins
3. State context and overview
by Mr. Shantanu Dixit, Group Coordinator, Prayas Energy Group – 10 mins.
4. Keynote address on “Role of Renewable Energy in Maharashtra’s Energy Transition”
by Mr. Prashant Badgeri, Deputy Secretary, Department of Energy, Government of Maharashtra - 10 mins
5. Brief remarks on new regulatory framework for Energy Transition in Maharashtra
by Mr. Abhijit Deshpande, Secretary MERC- 10 mins
6. UK Government Department for International Trade (BHC)
by Mr. Tom Mottershead Deputy Director-Trade (South Asia) - 5 mins

10h45 – Coffee break 11h15

11h15 – A renewed view on system operation and planning 12h30

1. Characteristics of the Maharashtra system with 50% VRE in 2030
by Mr. Ashwin Gambhir, Fellow, Prayas Energy Group- 20 mins
2. Challenges and developments in today’s system operation
by Mr. Dinesh Wagmare, Chairman and Managing Director, MSETCL – 15 mins
3. Role of transmission planning, pricing for high VRE in Maharashtra
by Mr. Balawant Joshi, Managing Director, Idam Infrastructure Advisory Pvt Ltd - 15 mins
4. Maharashtra Power Sector 2030 : Navigating Disruptions
by Ms. Anvesha Thakker, Executive Director, Power and utilities practice, KPMG – 10 mins

Question and answer session – 15 mins

Moderated by Mr. Ashwin Gambhir, Prayas Energy Group.

12h30 – *Lunch and Networking*

13h30

13h30 – **System flexibility actions for an evolving energy mix**

15h05

1. Key actions for power system transformation phases from international experience in Maharashtra context
by Mr. Edwin Haesen, Head of Unit System Integrations of Renewables, International Energy Agency - 20 mins
2. Role of grids network flexibility in Western region and National context
by Mr. Vivek Pandey, Sr. Dy. General Manager, WRLDC-POSOCO – 10 mins
3. Role of energy storage in Maharashtra context
by Dr. Rahul Walawalkar, President, India Energy Storage Alliance - 15 mins
4. Role of thermal plant flexibility in Maharashtra context
by Mr. Chandrakant Thotwe, Director (Operations), MahaGenco - 15 mins
5. Role of demand flexibility in Maharashtra context
by Ms. Rasika Athawale, Advisor, The Regulatory Assistance Project – 10 mins
6. Reflections on the Role of Demand Response / Demand Side Management in Maharashtra Power Sector Transition
by Mr. Raghav Pachouri, Associate Fellow, TERI – 10 mins

Question and answer session – 15 mins

Moderated by Mr. Kartik Veerakumar, IEA

15h05 – *Coffee break*

15h30

15h30 – **Policy and Regulation for system transformation (Panel Discussion)**

17h00

Recommendations identified in session 1 and 2 (15mins)

Panel discussion on presentation on system operation and planning and system flexibility actions for an evolving energy mix (75mins)

Panelists: MERC, MSETCL, SLDC, MSEDCL, MahaGenco, NITI Aayog, WRLDC(POSOCO), MEDA, PRAYAS Energy Group, IEA, GIZ, IESA, RAP, CER, Idam Infra.

Moderated by Mr. Ashwin Gambhir and Mr. Kartik Veerakumar

17h00 – **Conclusion and Vote of thanks**

17h30