

Recommendations and Way Forward

for

“Accelerating the Clean Energy Transformation through Coordinated Generation and Transmission Planning for Optimal and Sustainable Cross Border Energy Trade in South Asia”

emerged out from the
Workshop held on 17-19, June 2023 at Le Meridien, New Delhi, India

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Workshop Theme and Key-events during the Workshop

Workshop Theme :

“Prospects of Clean Energy Transformation and Role of Coordinated Generation and Transmission Planning for Optimal and Sustainable Cross Border Energy Trade in South Asia”

Key - Events:

- Inaugural Session
- Working Session 1 : Electricity Generation Planning in South Asian countries;
- Working Session 2 : Electricity Transmission Planning;
- Working Session 3 : Need for Regional, Complementary Approach;

Key- points emerged out from the addresses during the Inaugural Session

Key - Outcomes:

- Need for cooperation among south Asia countries to expand power trade among them was emphasized in the overall interest of energy access, energy sustainability and energy security;
- Considering the low level of power consumption per capita in the region, supply side has to undergo a quantum jump hence the nature of cooperation and growth of cross border power exchange has to be significantly accelerated;
- The hydro projects of Bhutan and Nepal, and wind projects of Sri Lanka have to witness an exponential growth to decarbonizing the power sector and to reduce the impact of climate change;
- Transmission infrastructure including cross border interconnection, have to be ahead of power generation, to assure development of power generation capacity;
- Demand side management has to be given more emphasis across all the South Asian countries;
- All the above will require concerted efforts and policy advocacy and political support.

Key- Recommendations emerged out from Working Session I

Session Title : “Electricity Generation Planning in South Asian Countries and perspectives for clean energy transition and advancing Cross Border Energy Trade in South Asia”

Key - Recommendations:

- There is a need for coordination among various countries for carrying out medium term and long term generation planning;
- Conduct collective studies towards resource adequacy and work out the opportunities towards regional interventions to ensure clean energy transition;
- An informal mechanism/ team should be set-up for sharing of information and factoring in import/export in countries own generation planning;
- Conduct ‘South Asia’ wide economy assessment and optimization through CBET towards achieving Net Zero, Climate & Clean Energy goals;
- Explore avenues towards the development of a few regional generation projects on large scale, on the premise of enhancing economy, efficiency & sustainability at the regional level;

Key- Recommendations emerged out from Working Session II

Session Title : “Electricity Transmission Planning in South Asian Countries and perspectives for clean energy transition and advancing Cross Border Energy Trade in South Asia”

Key - Recommendations:

- All country team of transmission organizations may regular review development of transmission in country and the capacity for cross border trade;
- The team will aim towards suggesting for futuristic approach for transmission infrastructure development ahead of generation projects;
- To enhance CB trade, the additional transmission capacity needs to be developed in an expeditious manner, as in most of the cases the available capacity utilization has reached almost to the rated value;
- Regional cooperation through Network of Power System Operators can be of much help & support for facilitating knowledge sharing for coordinated transmission planning and integrated system operation;

Key- Recommendations emerged out from Working Session III

Session Title : “Need for Regional, Complementary approach to meet the clean energy transitions plans through Coordinated, Complementary Regional Electricity Generation and Transmission Planning Electricity Generation Planning”

Key - Recommendations:

- Develop “South Asia Electricity Generation & Transmission Master Plan (SAEGT-MP)” to achieve clean energy and Net Zero Goals in the most optimal, economical & sustainable manner for regional energy security;
- Develop on a broad level “South Asia Plan of Action for Energy Cooperation and Road Map” for immediate future, say next 5-10 years;
- Create “South Asia Network for Integrated Power System Planning and Operation (SANIPO)“, a regional level platform to facilitate capacity building, knowledge exchange and sharing of best practices:
 - ✓ to facilitate consensus building and arriving at decisions through mutual discussions and consensus;
 - ✓ to complement and supplement existing bilateral cooperation amongst countries in SA;
 - ✓ to develop “South Asia Power System Planning & Operation Guidance Manual”;
- Plan Annual Flagship Training Course on “Integrated Regional Power System Planning and Operation“ under SANIPO

Thank You

