

INTERNATIONAL CONFERENCE ON INCLUSIVE SCIENCE, TECHNOLOGY AND INNOVATION POLICIES FOR PROMOTING THE TRANSFER OF NEW AND EMERGING TECHNOLOGIES IN WATER AND ENERGY SECTORS

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Presentation by
Akbar Azam Rajar
Section Officer, Power Division
Ministry of Energy Govt. of Pakistan
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Innovative Sustainable Emerging Technologies Adoption in Energy Sector of Pakistan

The concept of RE based net-metering has been implemented for domestic, industrial, commercial and agriculture consumers in Pakistan as a part of adoption of RE technologies in Pakistan.

Challenges

- Non-acceptance of the concept by the distribution companies and readiness on their part in processing applications for net-metering. The distribution companies initially foresaw net-metering as a detriment to their business.
- The awareness of the consumers regarding netmetering was also lacking.
- Other technical challenge was also to specify the efficient meters for net-metering and their availability and safety concerns.

Policy Intervention

- Policy covering power generation from wind, solar, small-hydro and biomass technologies for Development of Renewable Energy for Power Generation, announced in 2006.
- The Policy also covered innovative concepts like netmetering, captive RE generation, wheeling of energy and banking of electricity.
- NEPRA, the regulator, also announced several regulations and guidelines aimed at promoting RE technologies.

Policy Intervention

- The Net-metering was also supported through Comprehensive Regulations announced by the NEPRA (Regulator.)
- Alternative Energy Development Board (AEDB) an organization under Power Division also subsequently announced Net-Metering Certification Regulations aimed at certifying service providers / installers for the ease of consumers.

Net Metering & Related Sustainable Development Goals (SDGs)

- End poverty (Goal -1)
- Affordable and clean energy (Goal-7)
- Decent work and economic growth (Goal -8)
- Climate action (Goal-13)
- Life on land (Goal -15)



Net Metering & Sustainable Energy For All (SE4ALL)

Sustainable Energy For All (SE4ALL) is the global initiative of United Nations, which is underpinned by its three main goals:

- 1. Universal Access to Energy
- 2. Doubling the Rate of Energy Efficiency and Conservation
- 3. Doubling the share of Renewable Energy in the overall Energy Mix.

Specific Needs And Areas for Assistance to Promote Innovative Sustainable Energy Technologies In Pakistan

- Capacity building of the concerned public sector entities in RE Technologies in Pakistan;
- Technical assistance in form of studies and equipping the concerned agencies with the requisite set of expertise and equipment/software etc;

THANK YOU