



# RENEWABLE ENERGY IN PAKISTAN: CURRENT STATUS AND PROSPECTS

Global Renewable Energy Solutions Showcase  
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- ▶ WWEA Work in Pakistan - An Overview
- ▶ Development of RE in Pakistan
- ▶ Policy and Regulatory Framework
- ▶ Current Status
- ▶ Challenges to RE
- ▶ Prospects

# OUTLINE OF THE PRESENTATION



- ▶ Started activities in November 2013 with the goal to help Pakistan's renewable energy market grow with a special focus on wind energy
- ▶ Followed a programmatic Approach
- ▶ Currently Implementing an RE Dialogues Project



- Market Analysis with Primary data and stakeholder engagement
- Research-based advocacy



- Policy advice
- Capacity building need assessment



- Capacity building and training workshop for key stakeholders

## WWEA'S WORK IN PAKISTAN



- ▶ Started Harnessing RE in 1980s
- ▶ AEDB was Setup in 2003

# DEVELOPMENT OF RE IN PAKISTAN



- ▶ RE Policy 2006
- ▶ Framework for Power Co-Generation 2013
- ▶ Net-Metering Framework in 2015

# POLICY AND REGULATORY FRAMEWORKS



- ▶ Wind - 350,000 MW (Theoretical)
- ▶ 300 Sunny days/year
- ▶ Small Hydro – 3,000 MW
- ▶ Bagasse – 2,000 MW
- ▶ Waste-to-Energy – 2,000 MW

# RE POTENTIAL IN PAKISTAN





- ▶ Wind – 785 MW
- ▶ Solar PV – 400 MW
- ▶ Small Hydro – 213 MW
- ▶ Bagasse – 160 MW

# CURRENT STATUS



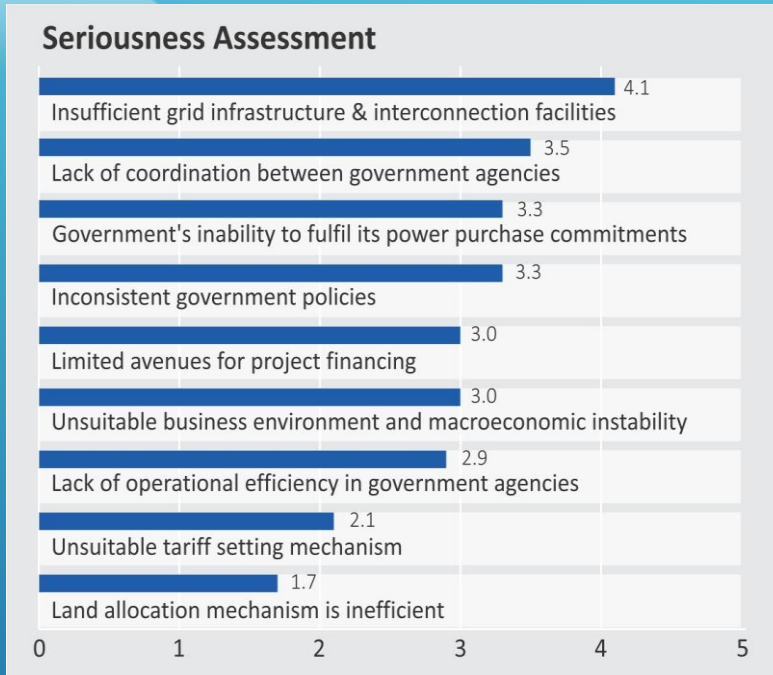


# MATURATION OF RE MARKETS

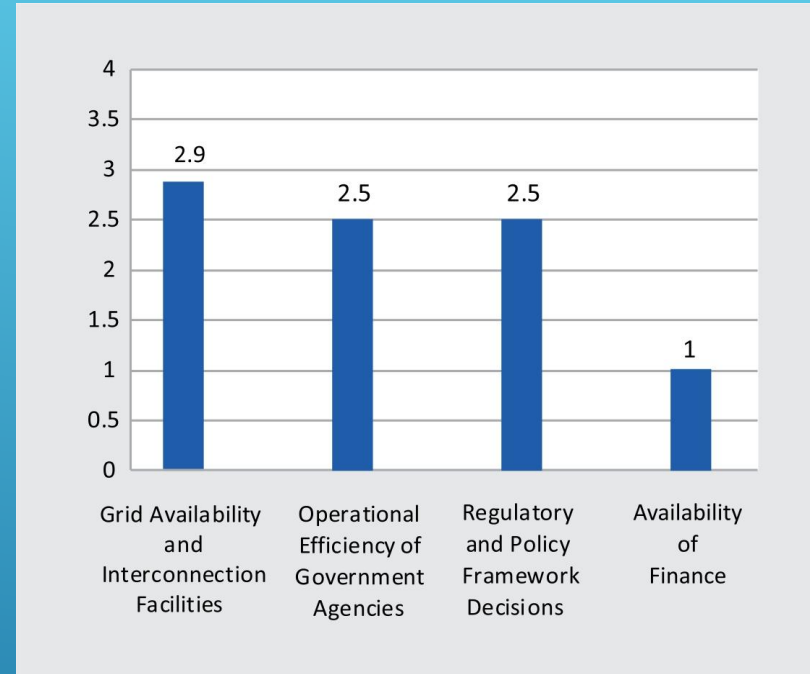




## November 2014 Report



## December 2015 Report



World Wind Energy Association

# BARRIERS TO RE DEVELOPMENT



- ▶ Economy is taking up along with the energy demand
- ▶ Distributed Generation
- ▶ Electrifying communities not connected to the national grid
- ▶ Small hydro projects in Northern Areas

## FUTURE PROSPECTS



Theme: **RE-energizing the Developing World**

April 5-7 2018

Expo Centre

Karachi, Pakistan

WWEC2018 KARACHI



# Thanks for your attention!



## Details about Partners:

<http://www.wwindea.org/>

<http://renewableresources.com.pk>

<https://www.pk.boell.org/>

<http://www.aedb.org/>