

# ASIA CLEAN ENERGY FORUM 2017



## ENERGY SECTOR IN SINDH & OPPORTUNITIES FOR INVESTMENT IN WIND CORRIDOR

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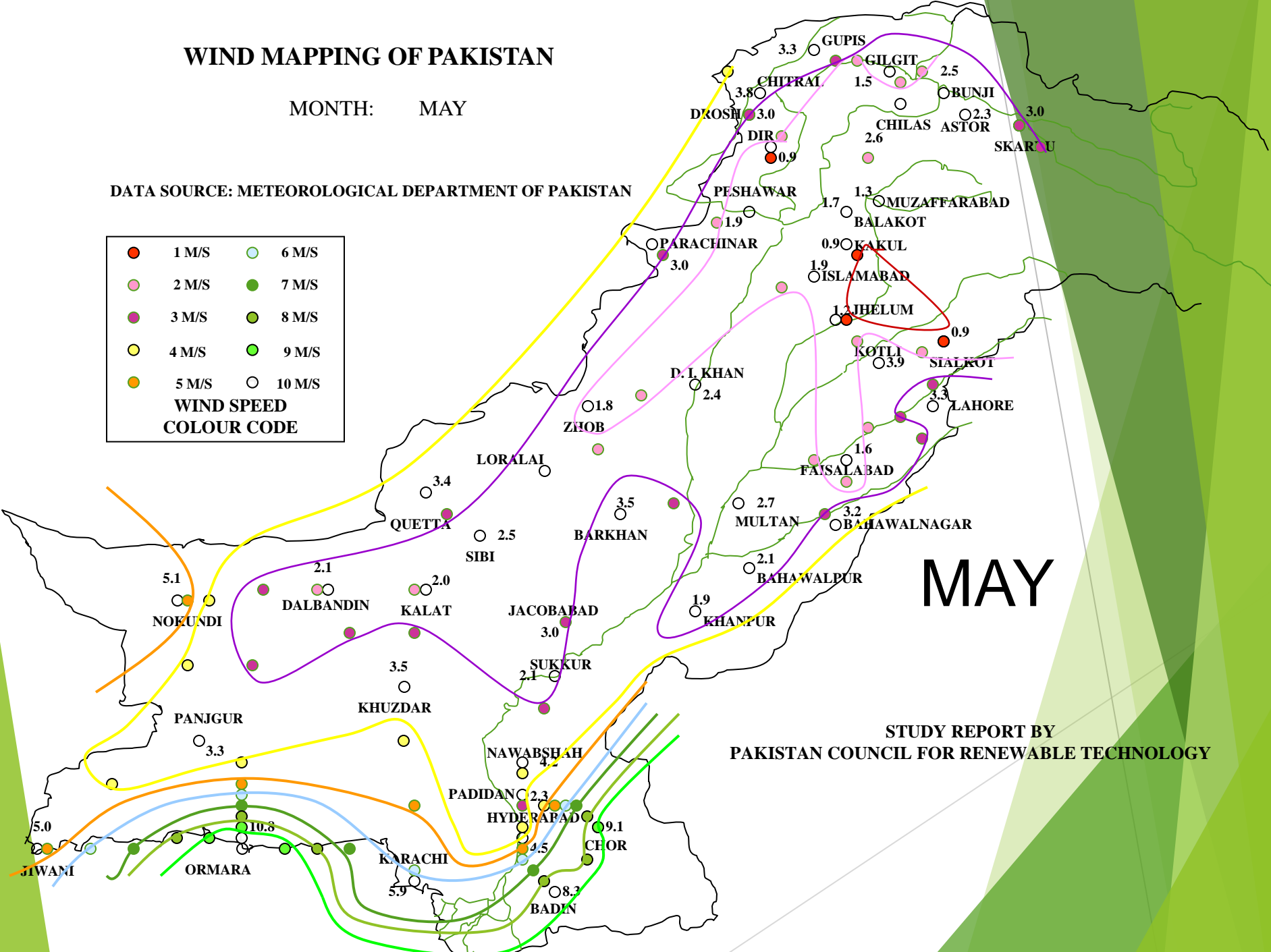
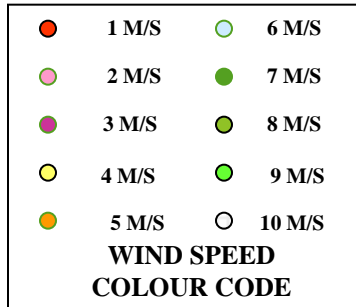
June 5<sup>th</sup> , 2017

ADB Head Quarter, Manila, Philippine

# WIND MAPPING OF PAKISTAN

MONTH: MAY

DATA SOURCE: METEOROLOGICAL DEPARTMENT OF PAKISTAN



# MAY

STUDY REPORT BY  
PAKISTAN COUNCIL FOR RENEWABLE TECHNOLOGY

# JHAMPIR SOLAR & WIND HYBRID PARK (60 KM long and 80 KM wide)



# Wind Energy Projects - Success Story

- ▶ **686 MW** electricity is being supplied through 14 Wind IPPs, sponsored by local and international investors including China Three Gorges Corporation.
- ▶ **400 MW capacity, 6 projects** are under construction and will be ready by 2017 for commercial operations.
- ▶ The **wind tower manufacturing factory** has started operation sponsored by Three Gorges Company of China, thus reducing the transportation costs
- ▶ 35 new investors totaling 2735 MW are at various stages of development
- ▶ The National Transmission & Dispatch Company (NTDC) is laying another transmission line of 220kV Jhampir-2 for evacuation of electricity from 1756 MW wind power projects.
- ▶ GoS is inviting further investment in this sector

# GOS SUPPORT INITIATIVES

- ▶ Dedicated **Land Grants Policy 2015** for the purpose of developing RE projects in the province.
- ▶ Nominal Land Rates for Clean Energy Projects, i-e:
  - PKR. 3000/- per acre per annum for first ten years of project life. (Equi US\$ 30 per acre per annum)
  - PKR 5000/- per acre per annum for next 10 years of project life. (Equi US\$ 50 per acre per annum)
  - PKR .8,000/- per acre per annum for next 10 years of project life. (Equi US\$ 80 per acre per annum)
- ▶ Provision of multi purpose use of land for hybrid projects was included.
- ▶ The land mortgage facility was allowed to ensure project financing through international lenders.

# Policy Initiatives

- ▶ GoS has announced an **ENERGY POLICY** encompassing Renewable Energy based power projects.
- ▶ **Renewable Energy Enclaves (REE's)**
  - ▶ The Policy envisages allocation of Government Land with infrastructure for development of RE Clusters at strategic locations in the Province
- ▶ **Distributed Generation**
  - ▶ GoS initiatives target to achieve increase penetration and development of economic activity by promoting distributed generation of electricity in areas where electricity infrastructure is not available. This is expected to catalyze economic activity in far flung areas of the Province.
- ▶ **Sindh Renewable Energy Development Program (SREDP)** has been initiated with the help of World Bank for promotion of Solar energy technologies.