

**GUJARAT WIND- SOLAR HYBRID
POWER POLICY- 2018**

Government of Gujarat
Energy and Petrochemicals Department
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PREAMBLE

The State Government envisions a future with reduced dependence on fossil-based energy by promoting renewable energy sources. The Government recognizes that renewable energy can also significantly increase the State's and the Nation's energy security. Above all, it is the vision of the State Government to provide a clean and sustainable environment for its Citizens.

The State of Gujarat is blessed with a long coastline and good wind speeds for harnessing of the wind Energy potential of more than 80,000 MW. Gujarat is also rich in solar energy resource with substantial amounts of barren and uncultivable land, solar radiation in the range of 5.5-6 kilowatt-hour (kWh) per square meter per day, an extensive power network and utilities with one of the best operational efficiencies.

The State has taken several initiatives such as investor friendly solar and wind power policies, large scale solar parks' development, green energy corridor investment for power evacuation and power procurement through PPAs by DISCOMs to promote RE capacity addition, to meet the growing energy demand of the state in environmentally sustainable manner. As a result of this, so far wind capacity installation in excess of 5,500 MW and solar capacity installation around 1,650 MW has been achieved.

Solar and wind energy generations are almost complementary to each other and 'hybridization' of two technologies would help in minimizing the variability apart from optimally utilizing available infrastructure including land and transmission system.

Solar and wind power potential in Gujarat is concentrated mainly in Saurashtra, Kutchh and North Gujarat region. The existing wind farms have scope of adding solar PV capacity and similarly existing solar PV plants have potential to develop Wind capacity. Suitable policy



