



## POWER PURCHASE

### » CONSUMERS TO PAY 20% LOWER TARIFF DURING SOLAR HOURS.

- » The Ministry of Power has recently made amendments to the Electricity (Rights of Consumers) Rules, 2020.
- » As per the amendment, the Ministry has instructed State Commissions to ensure that the tariff for solar hours is at least 20% lower than the regular tariff.
- » This introduction of Time of Day (TOD) tariffs aims to encourage efficient energy usage during the designated solar hours, which typically last for eight hours per day.
- » Additionally, the amendment also states that during peak periods, commercial and industrial consumers will be charged a tariff of at least 1.20 times the normal rate.
- » The duration of peak hours will not exceed the solar hours specified by the State Load Despatch Centre.



## POWER PURCHASE

- » Consumers to pay 20% lower tariff during solar hours.



## RENEWABLES

- » Wind-Solar Hybrid captive power plant has been commissioned by First Energy Private Limited (FEPL) in Gujarat.
- » Better utilisation levels of renewable energy projects could be achieved by installing solar plants existing wind farms - IWPA



## Policy and Regulatory

- » MoP issues amendment in the SBDs for procurement of ISTS through TBCB process to include provisions of aggregate capital cost for HVDC systems.
- » CEA notifies guidelines for field efficiency test in HPP including PSPs



## RENEWABLES

### » WIND-SOLAR HYBRID CAPTIVE POWER PLANT HAS BEEN COMMISSIONED BY FIRST ENERGY PRIVATE LIMITED (FEPL) IN GUJARAT.

- ▶ First Energy Private Limited (FEPL), a wholly owned subsidiary of Thermax Limited, has commissioned a 45.80 MW wind-solar hybrid captive power plant in the state of Gujarat.
- ▶ The facility has an installed capacity of 24.3 MW of wind energy and 21.50 MW of solar energy.
- ▶ The plant has more than 50,000 solar modules and 9 wind turbine generator (WTG) units, with each WTG having a generation capacity of 2.7 MW. The plant ensures efficient transmission and seamless integration of clean energy into the power grid.





## RENEWABLES

### » **BETTER UTILISATION LEVELS OF RENEWABLE ENERGY PROJECTS COULD BE ACHIEVED BY INSTALLING SOLAR PLANTS ON EXISTING WIND FARMS - IWPA**

- » As land availability is a challenge for renewable projects in Tamil Nadu, existing wind farm lands could be used for putting up solar panels.
- » Tamil Nadu has the second highest wind energy capacity in the Country. But the challenge in Tamil Nadu is the lack of land to set up more wind farms.
- » One solution is re-powering, which is basically upgrading the capacity of the existing wind turbines to produce more energy. However, the 'wake effect' — where windmills nearby can affect each other's performances makes it a challenge to upgrade wind turbine capacity as it stands to reduce the effectiveness of the neighbouring wind farms.
- » A solution to this issue has been recommended by Indian Wind Power Association that solar panels can be put up in existing land where wind turbines are currently installed. This will help build transmission lines to take up both solar and wind-generated energy.
- » The combination of these two, leads to a better plant capacity utilisation of 60 per cent which is much higher than only one of the above sources.







## POLICY AND REGULATORY

### » MOP ISSUES AMENDMENT IN THE SBDs FOR PROCUREMENT OF ISTS THROUGH TBCB PROCESS TO INCLUDE PROVISIONS OF AGGREGATE CAPITAL COST FOR HVDC SYSTEMS.

- ▶ The Ministry of Power (MoP) has issued an amendment in the Standard Bidding Documents (SBDs) for procurement of Inter-State Transmission System (ISTS) through Tariff Based Competitive Bidding (TBCB) process to include provisions of aggregate capital cost for High Voltage Direct Current (HVDC) systems.
- ▶ MoP has noticed that the provisions to derive the technical requirement with respect to HVDC systems (i.e. aggregate capital cost of projects/ aggregate payments received to be met by the bidding company or lead member of the bidding consortium) are not present in the standard Request for proposal (Rfp).
- ▶ Accordingly, in consultation with Central Electricity Authority (CEA), the MoP has decided to modify the para of the standard RfP document for including the provisions of aggregate capital cost with respect to HVDC systems.
- ▶ The new provision asks the bidders to specify experience of developing projects in the infrastructure sector in the last five years with aggregate capital expenditure and the capital expenditure of each project. It also specifies costs for high voltage alternate current and HVDC systems.





## POLICY AND REGULATORY

### » CEA NOTIFIES GUIDELINES FOR FIELD EFFICIENCY TEST IN HPP INCLUDING PSPS

- ▶ The Central Electricity Authority (CEA) has notified guidelines for field efficiency test in Hydro Power Plant (HPP) including pumped storage plants (PSPs).
- ▶ The objective of this guideline is to guide hydropower generating utilities in the Country to provide a uniform approach for carrying out said tests, its acceptance and to minimise dispute between project authority and the supplier of the units in the project.
- ▶ This Guideline mainly focuses on defining the terms and quantities to be used in the process, validity, the period for acceptance of test, agency to perform the test, to specify methods and ways of measuring quantities involved to ascertain the hydraulic/ electrical efficiency of the units and determination of fulfilment of contract guarantees and penalisation in case of failure of its fulfilment.
- ▶ This Guideline will be applicable to any size and type of unit comprising generator – motor and impulse/ reaction turbine, and pump-turbine above unit size of 5 MW.

