

# RENEWABLE ENERGY



# Creating a sustainable world

In 2017, India was ranked as the second most attractive Renewable energy market in the world.

The country has set an ambitious target of 175 GW of renewable power by 2022, which includes:

100 GW of Solar power

60 GW from Wind power

10 GW from Biomass power

5 GW from Small Hydro power

This is the world's largest expansion plan in renewable energy.

Up to 100% FDI is allowed under the automatic route for renewable energy generation and distribution projects subject to provisions of The Electricity Act, 2003.

For further details, please refer [FDI Policy](#)

# Contribution in Indian Economy

Renewable  
energy  
potential in  
india-  
1000+GW

Installed  
renewable  
energy  
capacity (as  
of Oct  
2018)-  
73GW

Share in  
total  
installed  
capacity -  
21%

Rise in solar  
power  
capacity  
(2014-16)-  
171%

# Highlights



5th largest installed capacity of renewable energy in the world



4th largest installed capacity of wind and 5th largest of solar power in the world



World's largest solar plant (648 MW), commissioned within a record 8 months, and world's largest solar park (2 GW) are now in India.

# Industry Scenario

Renewable energy sources have a combined installed capacity of 73+ GW, pegged at around 21% of the country's total energy capacity.

Wind power accounted for the highest at 48% (around 35 GW), followed by solar with a share of 33% (24 GW). Remaining market was captured by biomass at 13% (9.5 GW) and small hydro projects catering to 6% (4.5 GW).

# Growth Drivers

## **Government commitments**

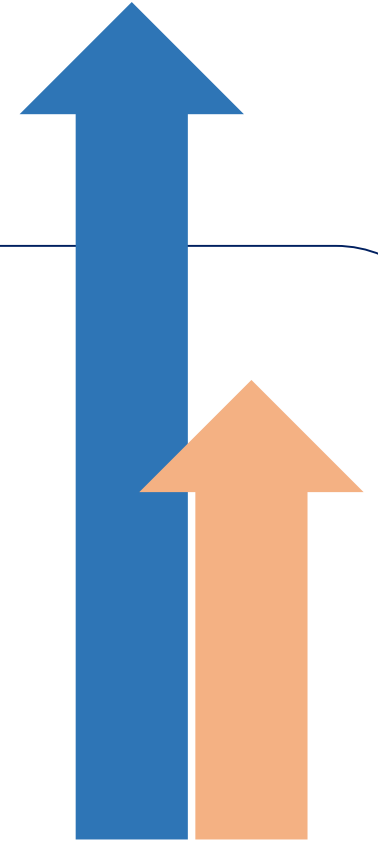
Reduce the emissions intensity of GDP by 33% - 35% below the 2005 levels and increase share of non-fossil fuel in total capacity to ~40% by 2030

## **Proposed solar cities & parks**

60 Solar Cities approved and \$ 1.3 Bn allocated for setting up 50 Solar parks of 40GW by 2020

## **New areas of opportunities**

National Wind-Solar Hybrid and Off-Shore Wind Energy Policy released



# Industry Trends



## 100 smart city projects

Provision of rooftop solar and 10% renewable energy mandatory

## Up-gradation and modernization

Up-gradation of watermills and micro hydro projects



## Solar Pumps

100000 solar pumps required for Agriculture

## Green Energy corridor

BP monitors, cardiovascular lab, portable anesthesia machine



## New solar parks sanctioned

34 Solar Parks of capacity 20,000 MW

# Policies & Schemes

[Generation based Incentives](#)

[National Offshore Wind Energy Policy](#)

[National Policy on Bio Fuels](#)

[National Hybrid Wind Solar Policy](#)

[Schemes for Biogas Power Projects](#)

[Biomass Gasifier Programme](#)

[Schemes for Biomass Power Projects](#)

[Schemes for Small Hydro Power Projects](#)

[Schemes for Solar Power Plants](#)



# Recent Investments

Dec 10, 2018 - **World Bank** praises India's Renewable Energy success

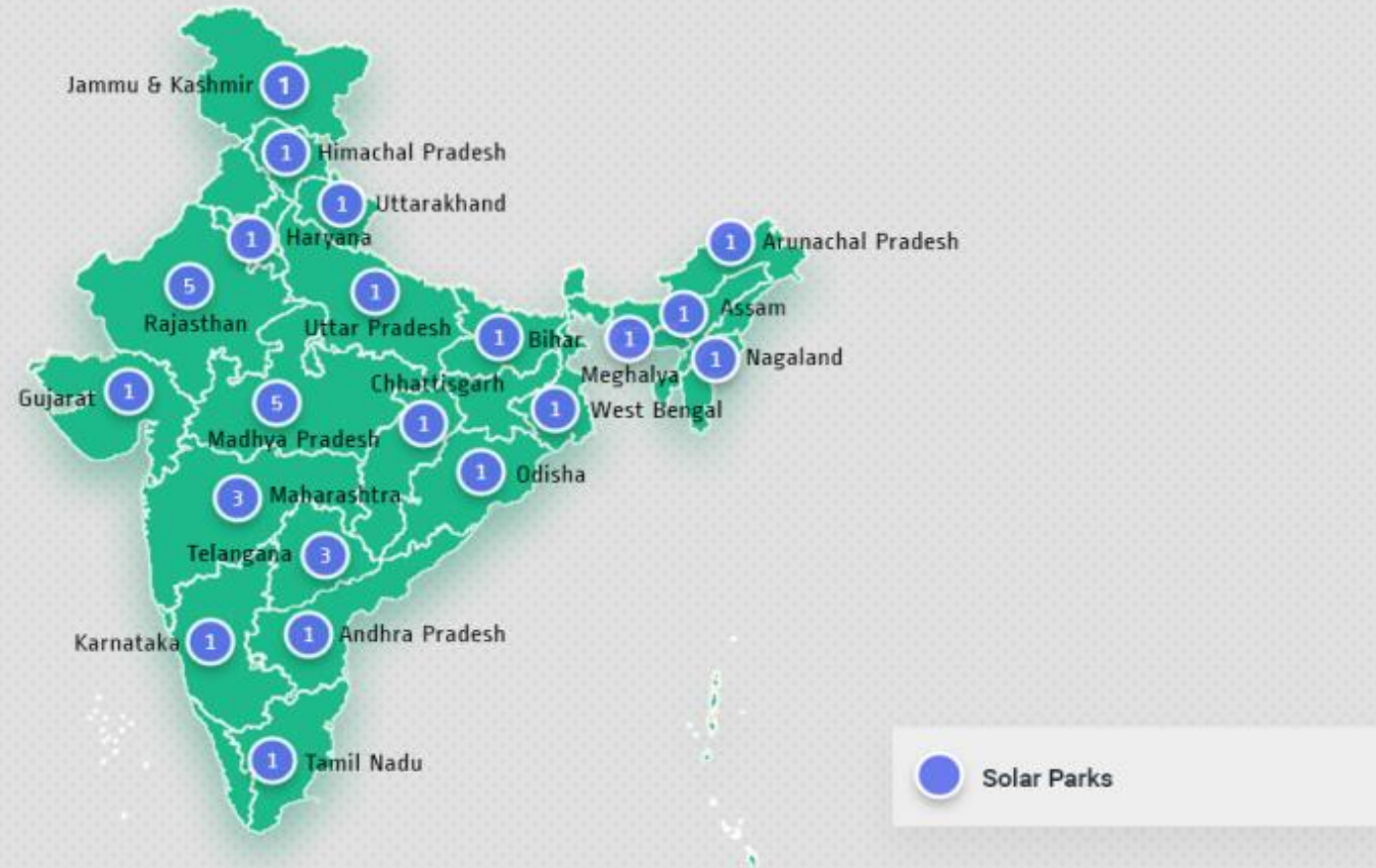
Dec 04, 2018 - Global infrastructure fund **I Squared Capital** is creating a new **renewable assets platform** that will acquire and develop utility-scale projects in India

Mar 01, 2018 - World's largest **solar park** launched in Karnataka. The world's largest solar park set up at an investment of **\$ 2.53 bn** at Pavagada in Karnataka's Tumakuru district was launched by Chief Minister

# Major Investors



# Approved Solar Parks



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