

Onshore Wind Power

As of January 2017, state has no wind based capacity. As per NIWE estimates, the state has a potential of 110 MW at 80 mt. hub height. Due to low level of wind potential, Assam's installed capacity in RE is also quite less. MNRE has not proposed any target for wind to Assam in achieving 60 GW nation wide wind based capacity by 2022. In addition, the terrain makes it difficult to set up wind based capacity in Assam. This lever provides choices for selecting four different levels of wind power development in the state.

Level 2

Level 2 assumes that transmission constraints will be removed due to additional investments for evacuation systems and development of Green Transmission Corridor. However, capacity additions will be slightly slower. The capacity addition increases strongly and state reaches its full potential of 110 MW by 2050.

Level 1

Level 1 assumes that capacity addition will be significantly slower and will start after 2022. Large scale grid integration of wind energy will remain a big challenge. The wind based capacity will reach 72 MW in 2050.

Level 3

Level 3 assumes that significant investments are made to overcome transmission constraints, prices of wind energy reduces and alternate fuel increases. The state will progress and capacity addition growth will be significantly higher than the historical trend and state will reach its full potential of 110 MW by 2045.

Level 4

Level 4 assumes that there are no technical or economical constraints for wind power development. Transmission constraints are resolved and development of ancillary services market will help in removing large scale grid integration issues. Wind based capacity will reach its potential much before, culminating in a cumulative capacity of 110 MW by 2040.

