

## **Problem Statement: Renewable Energy (RE) Integration**

### **TANGEDCO (Tamil Nadu)**

At present, Renewable Energy (RE) intraday forecasting happens in 15 minutes time interval for the Discom with accuracy tolerance limit and penalty for error, if any. However, the forecast in respect of Day ahead and week ahead does not have any accuracy limit specified and hence does not attract any penalty for low accuracy. The Service providers hence concentrate on improving the intra-day forecast only and the Day ahead and Week ahead forecasts are not good enough to support the grid operation. The accuracy of day ahead forecast is very much essential to plan for the requirement of Day ahead Power Purchase and planning. Hence the now proposed AI Based technology can be utilised to provide accurate Day ahead and week ahead forecasts for economical grid operation.

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### **MVVNL (Uttar Pradesh)**

In Gomati Nagar Division of Lucknow, around 358 net metering (Smart meters) connections are available with Solar rooftop. DISCOM is interested to work on RE integration through AI/ML solution. Monthly data with 15 min duration is available with the utility and any other relevant information if required would be provided by the Discom.