factor of renewable energy-based power plants and understanding the capacity decisions of utilities.

Mid-term load forecasting (MTLF) is essential for utilities and power plants to plan their operations, capacities and to decide on the power purchase agreements in advance. However, most of the MTLF models in practice forecast aggregate demand for a day or a week, or a month leading to either over-estimation or under-estimation of demand. Additionally, since

conditions favoring proposed TOU pricing and improving RE utilization. We compare TOU with the fixed tariff retail pricing. Our experiments indicate that the distributor, champion of TOU, benefits the mo