Key Challenges with Net Demand Forecast:
1. 4-6 substations with high solar-pv penetration
2. High solar-pv penetration, adds a complication as net demand would be delta of total-demand delta pc-yield
3. 1-hr granularity for 1-yr is somewhat limited for any deep-learning models
4. Given global-warming, covid, work-from-home etc, historical patterns may not reflect on current patterns

Planned Model and approach:
1. Target-variable: 24-ticks of net-demand (for every sub-station and desired percentile)
2. Independent variables to capture
    a. Weather
    b. Geo-location
    c. Target-variable quality
    d. Seaonality – intraday, intraweek, month, and seasons
    e. Installed solar-coverage
    f. ....
3. Model architecture
    a. Time embedding to handle 24-ticks of day
    b. Multiple models like Catboost, XBG etc to extract predictive features
    c. Ensembling different models for a more robust model to fit