

Data Availability for VDER Rate Design Working Group

September 20, 2017



Customer Load Research Data

- National Grid maintains on-going Load Research program to develop rate class hourly profiles
- For classes where interval metering is not required, samples are deployed to develop hourly profiles
- Strata within a class population are defined based on consumption for sampling (attributes for location, building type, or demographic variables are not used)
- Each mass market (non-demand billed) rate class sample based on five annual consumption strata

Customer Class	Approximate Number of Customers in Sample
SC-1 Standard	160
SC-1 C	90
SC-2 Non-demand	160

System Load Data

- National Grid currently publishes certain load data on System Data Portal
- Some 8760 feeder data collected by Remote Terminal Units (RTU) is available on System Data Portal
- Approximately 55% of distribution substations have station transformers or 8760 feeder data available (mostly 115-13.2kV substations); remainder have manual reads or estimated data

Bill Impact Analysis

- Currently bill impacts calculated for average customer (or variation thereof)
- Calculating frequency distribution of impacts for all customers in a rate class (e.g. > 1 million residential) would likely require more advanced analytics tools/capabilities