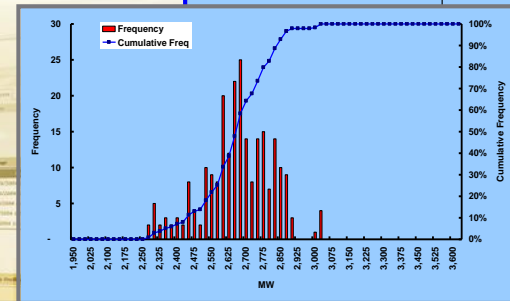
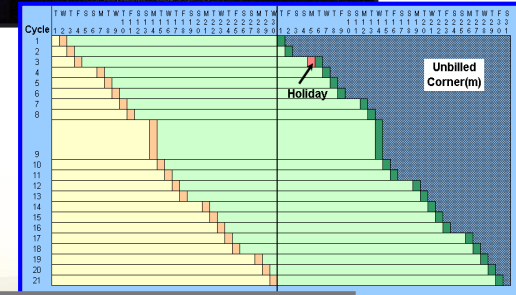
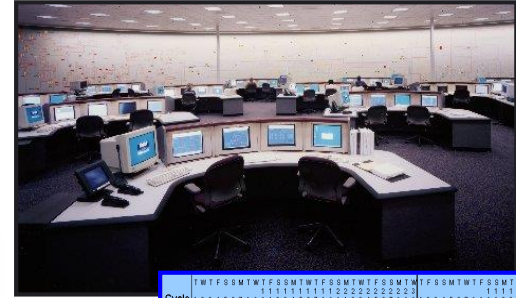


DISTRIBUTION FORECASTING WORKING GROUP

Meeting Objectives

Mark Quan
Itron
5/2/2018



> Knowledge to Shape Your Future



OBJECTIVES

1. What is the estimated magnitude of uncertainty in circuit level forecasts and what are the implications for distribution planning and capacity for evaluation and feedback to mitigate uncertainties?

Meeting 1: Developed the list of uncertainties

Meeting 2: Estimate the magnitude for PV, EV, and AAEE

Meeting 3: Estimate the magnitude for ES and LMDR

2. Are there data sets that could improve the IOUs disaggregation of Distributed Energy Resources (DER) growth to the circuit level?

Meeting 1: DMV Data

Meeting 2: Additional datasets for PV, EV, and AAEE

Meeting 3: Additional datasets for ES and LMDR

OBJECTIVES

3. What are the disaggregation methods of system level load and DER forecasts to the circuit level, what are the shortcomings and possible improvements?

Meeting 1: Looked at last years method for DER disaggregation

Meeting 2: Review next year's method and identify shortcomings/improvements (PV, EV, and AAEE)

Meeting 3: Review next year's method and identify shortcomings/improvements (ES and LMDR)

Meeting 3: Load disaggregation

4. What are the best data sources for disaggregation of load and DER adoption, as well as DER operational profiles?

Meeting 2: Additional datasets for PV, EV, and AAEE

Meeting 3: Additional datasets for ES and LMDR

OBJECTIVES

5. What dispersion methods should be used to allocate circuit-level forecasts along a circuit?

Meeting 3

6. How will the IOUs modify future forecasts based on evaluation of actual results in forecasts?

Meeting 2: Understand next year's update for PV, EV, and AAEE and reasons for corrections

Meeting 3: Understand next year's update for ES and LMDR and reasons for corrections

7. Does the DER disaggregation align with California Energy Commission (CEC) and California Independent System Operator's forecasting assumptions

Meeting 3: Load disaggregation and interactions with CEC

MEETING 2: OBJECTIVES

- » For PV, EV, and AAEE ...
- » IOUs address:
 - What are the major uncertainties?
 - What are next year's methods and how do they mitigate uncertainty?
 - Quantify/Qualify major uncertainties.
- » Before we leave ...
 - Is the method “best practice”?
 - Are there better methods to disaggregation that should be considered? Are there any method short-comings that can be addressed?
 - What is the level (quantify/qualify) of uncertainty?
 - Are there additional datasets?

LOGISTICS

Document Website:

<http://capabilities.itron.com/DFWG/index.htm>

Meetings:

All meetings are tentatively set from 9:30 AM to 3:30 PM.

- Meeting 1: 4/18/18 (PG&E, Room 1876)
- Meeting 2: 5/2/18 (CPUC Golden Gate Room)
- Meeting 3: 5/16/18 (PG&E, Room 938 A/B)
- Meeting 4: 5/30/18 (Webinar)
- Meeting 5: 6/13/18 (CPUC Golden Gate Room)

Facilitator Contact Information

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