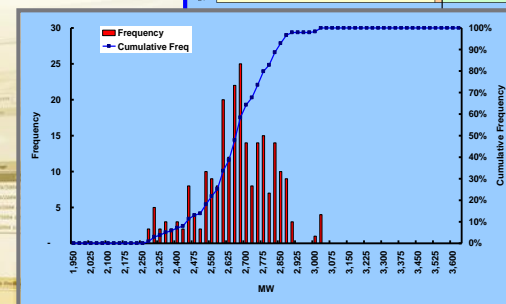
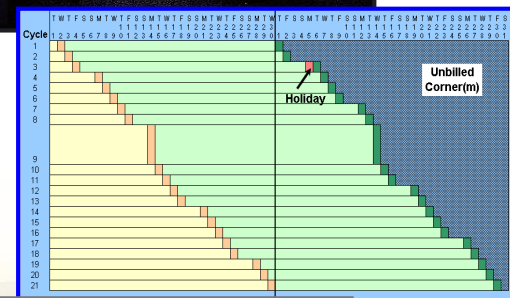
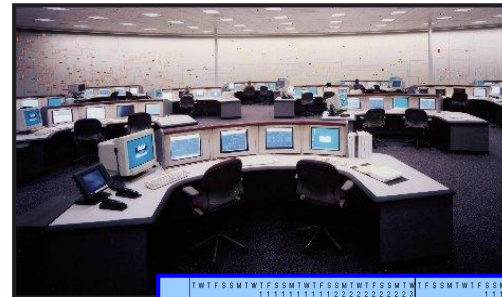


DISTRIBUTION FORECASTING WORKING GROUP

Meeting Plan

Mark Quan
Itron
4/18/2018



> 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?
2. Are there data sets that could improve the IOUs disaggregation of Distributed Energy Resources (DER) growth to the circuit level?
3. What are the disaggregation methods of system level load and DER forecasts to the circuit level, what are the shortcomings and possible improvements?
4. What are the best data sources for disaggregation of load and DER adoption, as well as DER operational profiles?
5. What dispersion methods should be used to allocate circuit-level forecasts along a circuit?
6. How will the IOUs modify future forecasts based on evaluation of actual results in forecasts?
7. Does the DER disaggregation align with California Energy Commission (CEC) and California Independent System Operator's forecasting assumptions

GENERAL CATERGORIES

Uncertainty.

Objective 1 addresses identifying the uncertainties in the planning process.

DER Data.

Objectives 2 and 4 address identifying the available DER data.

Methods.

Objectives 3, 5, and 6 address identifying appropriate methods for disaggregation. Objective 3 examines the methods with their strengths and weaknesses. Objective 5 asks which method should be used. Objective 6 raises the issue of future modifications based on evaluation results.

Reconciliation.

Objective 7 seeks to reconcile the methods with activities at the CEC and CAISO.

WORKPLAN GRID

Objective	Meeting 1	Meeting 2	Meeting 3	Meeting 4	Meeting 5
Uncertainty (1)	<ul style="list-style-type: none"> Develop a list of uncertainties 	<ul style="list-style-type: none"> Identify range of uncertainty and which may be mitigated 			
DER Data (2), (4)	<ul style="list-style-type: none"> Develop a list of DER 			<ul style="list-style-type: none"> Identify standard DER characteristics Methods for developing characteristics including data sources. Identify reasons for deviating from standard characteristics 	
Methods (3), (5), (6)	<ul style="list-style-type: none"> IOUs present their methods. 	<ul style="list-style-type: none"> IOUs present lessons learned on proposal from the 2018/19 planning cycles Stakeholders present their methods 	<ul style="list-style-type: none"> Discuss calibration issues Discuss future feedback issues Discuss uses of specific area knowledge 		
Reconciliation (7)			<ul style="list-style-type: none"> CEC presents their disaggregation requirements IOUs ability to update IEPR forecasts 		

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 (Tentative)
- Meeting 4: 5/30/18 (Webinar)
- Meeting 5: 6/13/18 (CPUC Golden Gate Room)

Facilitator Contact Information

- Mark Quan (mark.quan@itron.com)
- Stuart McMenamin (stuart.mcmenamin@itron.com)