

VWAC update

vermont electric power company



03/15/2018

VWAC update

- Highlights of 3/8/18 VELCO/UI meeting
 - Gave feedback on performance of JDA effort.
- Commercial applications
 - Provided quantifiable data on performance of PV and load forecasting.



JDA tasks and planned deliverables

JDA Project	Task/Issue/Requirement/Bug	Pilot Deployment	Cloud Deployment	Impact
Peak Load Management	Non-peak day probability forecast	20 th Feb	26 th Feb	Fixes the probability assignment for non-peak hours; filter less aggressively
Peak Load Management	First day of month forecasting (fence post problem)	20 th Feb	26 th Feb	Initializes the P(before) for previous calendar month
Peak Load Management	Last day of Month forecasting (fence post problem)	26 th Feb	2 nd March	Initializes the P(after) for next calendar month
Peak Load Management	Improve notification using upper bound forecast	1st April	15 th April	Notifications will align with the peak of the month
Peak Load Management	Improve notification threshold value for flat probability values	15 th May	1 st June	Adaptive approach to Notification once "similar" peak values repeat more than 5 times
Demand Forecasting	New PV model development	15 st April	15 st May	Improve accuracy of day-time demand forecast

Commercial product delivery: action plan

- Fine-grained access control to data at DU level in HyperCast
 - Scheduled for 15th April pilot release and 1st May cloud release
- 10-day forecast
 - Nostradamus is ready for deployment; awaiting VELCO HPCC node availability predicted on 9th April
 - Ongoing work in developing a model for extending to 10 day demand forecast and 10-day peak probability forecast: 6th June
- Ongoing delivery plan for product feedback provided by VELCO in Dec 2017
- Operations team engaging with VELCO to provide L1/L2/L3 support

Actions going forward

- UI committed to completing JDA objectives.
- UI setting up a response team for commercial applications with SLA requirements.
- UI/Vestas wants to have a presence in the T&D area.

