2020 Technology Pilots

LIPA Board of Trustees Meeting

May 20, 2020

2020 METRICS - TECHNOLOGY PILOTS

- As part of the 2020 OSA Performance Metrics, LIPA and PSEG Long Island agreed to a Focus Area metric for Technology Pilots.

- Five pilot projects were identified for 2020.

- PSEG Long Island must complete two pilots by year-end to earn 1 Base Point.

- Completion of a third pilot earns a bonus point (total of 2 Base Points).

- Two additional pilots will be tracked throughout 2020 for future consideration.

2020 TECHNOLOGY PILOT DETAILS

Pilot Name	Pilot Description/Objective
Customer Usage - Next Generation Insights	Improve efficiencies by providing customers increased education and information regarding their bill and energy usage through appliance level load disaggregation digital alerts.
ETR Accuracy Analytics*	Create Artificial Intelligence (AI) models that improve the accuracy of restoration time predictions. Use AI technologies to infer outage causes based on available information regarding customer reported outages (correlating metering, equipment monitoring, etc.).
Machine Learning Image/Video Analytics	Install cameras on 3-5 line trucks in order to capture Image/Videos of distribution network during regular circuit inspection patrols looking for vine damage on poles. Collect these images/videos and train machine learning model to accurately identify vine damage on poles. Analyze the images and provide location of these poles for recommended actions.
Mobile Based Inspections – Electronic Reliability Patrol Data Capture	Replace all manual data capture for reliability related patrols (i.e. CIP, Next Outage program, etc.) and incorporate a dashboard to include priority, geographic, photo and circuit condition scoring.
AMI Data Analytics of Fuses and Transformers	Identify potentially overloaded distribution transformers and fuses based on AMI aggregate coincident load readings associated with connected meters.

Note: ETR Accuracy Analytics must be one of the two pilots successfully completed in order to earn the base point.

3