

SynchroPhasor Technology Deployment Project Update

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TOA-AC Meeting
December 1, 2010

Acknowledgment: "This material is based upon work supported by the Department of Energy under Award Number: DE-OE0000373"

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Project Financials: Planned vs. Reported Spending

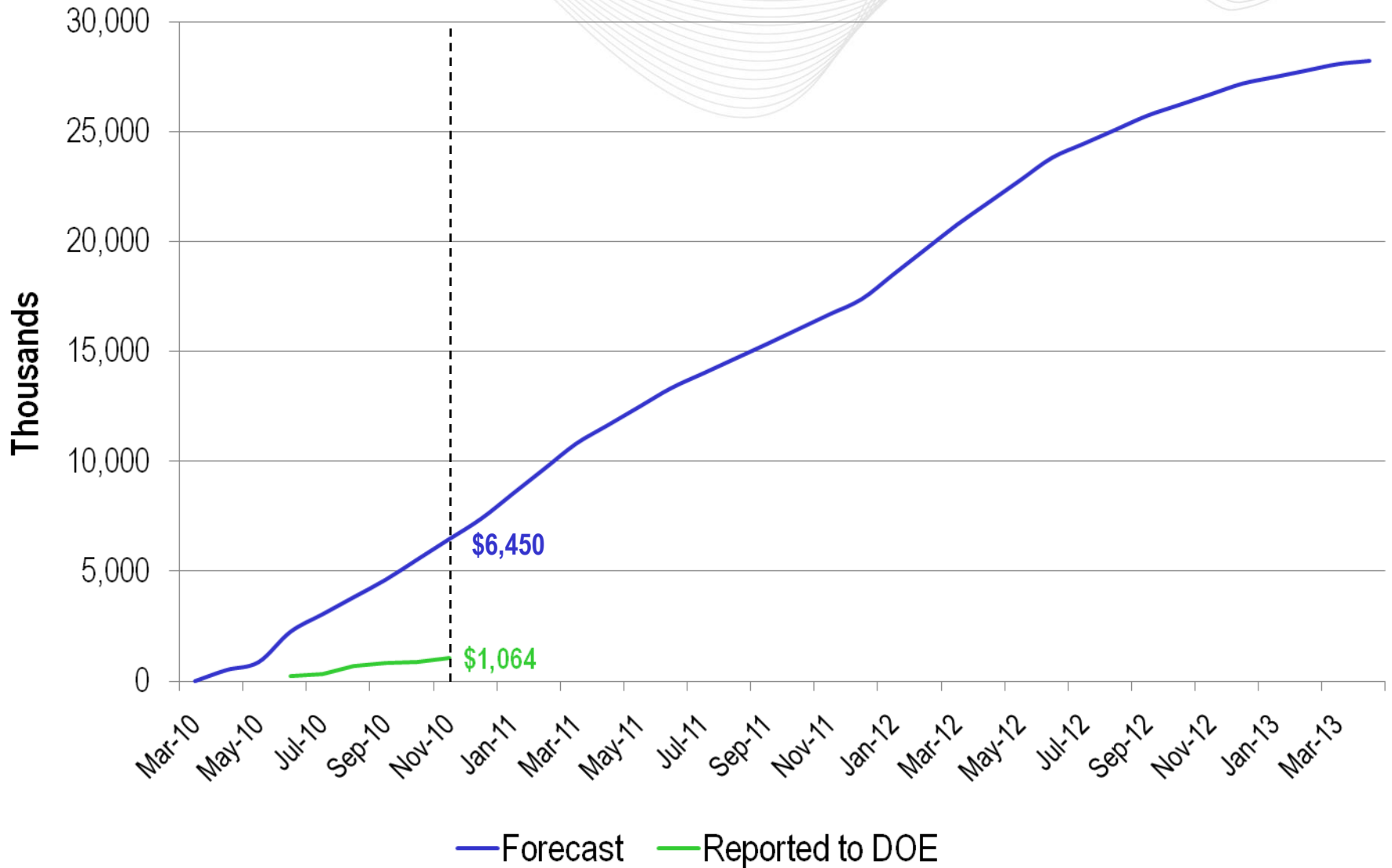




Figure 3: Emanuel confirms and discusses the proper PMU settings.

- TO PMU Installations:
 - Ongoing PMU/PDC hardware reviews and decisions
 - Engineering/field work underway or recently completed at 15 stations
- PJM Activities:
 - Hardware being configured for PDC & visualization installation (Q1 2011)
 - Visualization user group meeting (Valley Forge, Nov. 3 – 4)
 - Circuit installations at PJM data center and initial TO PDC installations
 - Coordination with MISO for data exchange and vendor improvements of PDC and visualization tools
 - First Metrics and Benefits quarterly report submission completed

Transmission Owner	# of Substations with PMU Installations	# of Central PDCs
Allegheny Power	8	2
American Electric Power	1	1
Baltimore Gas & Electric	2	1
Commonwealth Edison	4	1
Duquesne Light	2	2
FirstEnergy Services	7	2
PECO Energy	3	1
PEPCO Holdings Inc.	4	2
PPL Electric Utilities	12	1
Public Service Electric & Gas	12	2
Rockland Electric	1	1
VA Electric & Power (Dominion)	11	1

- Project requirements/design lead standards development
- Preparation of testing facilities at Virginia Tech were delayed
- Confidence in the performance of PMU/PDC equipment
- DOE reporting requirements and mechanics under development
- Current invoices to DOE reflect only a fraction of total project expenditures (only four TOs have provided invoicing data to PJM)