

2013 Capital Projects

*** This information is also contained in the budget book

Capital Project	Amount *
Outage management system (OMS) phase 3	Large
Incorporate current manual workarounds into Siemens products to improve performance and support	Large
Resources Interconnection Management System (RIMS) enhancements 2013	Large
Energy management system (EMS) enhancements	Large
Enterprise model management systems (EMMS) phase 3	Large
Improve forecasting tools (ancillary services, flexible ramping)	Medium
Operational meter analysis and reporting (OMAR) new features, corrections, and automation	Medium
Market validation tools phase 2 and 3	Medium
Topology estimation tool	Small
Secondary e-tagging system for robustness	Small
PROBE Enhancements	Small
Operations enhancements 2013	Large
Non-generator resources (NGR) in ancillary services market requirements - regulation energy management (REM) - dispatchable demand response (DDR)	Large
Flexible ramping (market product) / simultaneous residual unit commitment and integrated forward market	Large
Intertie pricing and settlement	Large
Outage coordination (optimization)	Large
Extending the network model	Medium
Bid cost recovery / renewable integration market & product review (RIMPR) phase 1	Medium
Blackstart restoration phase 1 and phase 2	Medium
Exceptional dispatch mitigation in real time	Medium
Market services enhancements 2013	Medium
Participating intermittent resource project (PIRP) decremental bidding	Medium
Subset of hours for all resources (includes updates to exceptional dispatch)	Medium
Standard capacity product phase 3	Small
Decoupling of short term unit commitment (DSTUC) extended to 9 or 10 hours	Small
Circular scheduling	Small
Default energy bids (DEB) enhancements	Small
Enhanced generation contingency model for markets	Small
Replacement requirement for generation outages - phase 2 automation	Small
Marginal loss surplus allocation	Small
Price consistency improvements	Small
Secured credit changes for convergence bidding	Small
Constraint parameter enhancement	Small
Administrative pricing rule	Small
Ancillary services (AS) buy back	Small
Flexible capacity procurement	Small
Architecture: consolidation of multiple overlapping applications, improve operational monitoring dashboard	Large
Enterprise hardware and software purchases	Large
Upgrades to Oracle eBusiness suite software – human resources, finance, procurement and market clearing	Large
Corporate systems enhancements	Medium
Master file enhancement phase 2	Small
Testing automation phase 3	Small
eDiscovery for Legal	Small
Customer inquiry, dispute and information (CIDI) functionality enhancements	Small
Compliance automation and controls governance, phase 3	Small
Update FERC electronic quarterly report (EQR) software	Small
Technology pilots and demonstrations (including micro grid, demand response, and energy storage)	Medium
Smart Grid California Energy Commission (CEC) phasor project	Medium
Synchrophasor research and development	Small
Cost-effective measurement infrastructure project	Small
Smart Grid - dynamic thermal line ratings project	Small
Grid index - price-responsive wholesale to retail demand project	Small
Price consistency improvements	Small
Operational impacts of distributed energy resources (DER) at scale	Small
Program Office project management costs	Large
Annual request for facilities costs	Small
Total	

* Note: The costs of the individual projects are not shown, but are categorized by size as follows: small projects under \$500k, medium projects from \$500k to \$1 million, and large projects over \$1 million. The actual projects completed during 2011 will vary, including the potential addition of projects not on this list, the deferral of projects on this list to future years, or the elimination of projects on this list if no longer necessary.