

2019 Project Schedule Milestone Update

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Budget and Priorities Working Group

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Project Milestone and Status Definitions

Milestone Definitions

| Milestone | Definition |
|-----------------------------------|--|
| Market Design Concept Proposed | NYISO has initiated, or furthered discussions with stakeholders that explore potential concepts to address opportunities for market efficiency or administration improvements. |
| Market Design Complete | NYISO has developed with stakeholders, a market design concept such that the proposal can be presented for a vote at the BIC or MC to define further action on the proposal. |
| Architectural Design | The architectural design document is complete and software development is ready to begin. |
| Functional Requirements | NYISO has completed documentation of the functional requirements and the Business Owner has approved. |
| Software Design | The software design document is complete and software development is ready to begin. |
| Development Complete | Development has been completed, packaged and approved by the Supervisor. |
| Deployment | Required software changes to support commitment have been integrated into the production environment. |
| Study Complete | Scope of work to be performed has been completed; results and recommendations have been presented to the appropriate Business Owners and stakeholders. |
| Study Defined | The scope of work for the study has been presented to stakeholders, including a discussion on the necessary input(s), assumption(s) and objective(s) of the study. |

Status Definitions

| Status | Definition |
|------------------|---|
| Complete | Requirements for delivery have been satisfied. |
| At Risk/Delayed | Progress continues but project challenges may require moving the delivery date later in the same calendar year. |
| Not Started | NYISO is not actively working on the project but expects the delivery can still be met based on scope of deliverable and time left to deliver. |
| On Schedule | Project is proceeding according to the project plan with expectations of meeting the required delivery by its target date. |
| Critical/Overdue | Project is in progress but project challenges may require moving the delivery date to the next calendar year or beyond the date specified in corporate incentive goals. |
| Reprioritized | Project has been reprioritized; resources have been reallocated to address emerging business needs which may delay the delivery date to the next calendar year or beyond the date specified in corporate incentive goals. |
| Cancelled | Project has been cancelled; resources have been reallocated to other efforts and there are no plans to pursue this project any further. |

Project Types

| Type | Definition |
|------|---|
| KP | Key project as identified in corporate incentive goal #6b |
| MP | Major project as identified in corporate incentive goal #6a |
| AP | Other approved project as identified in 2019 project budget |
| NP | New project to address emerging business needs |

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2019 Project Milestones

| Project Name | Type | Qtr | Project Commitment | Commitment Status |
|---|------|-----|--------------------|-------------------------|
| <i>Business and Finance Products</i> | | | | |
| Enterprise Information Management – Data Integration Phase IV | KP | Q2 | Deployment | Critical/Overdue |
| S&P Credit Ratings Platform Change | MP | Q1 | Deployment | Complete |
| Rate Schedule 12 Settlement | MP | Q2 | Deployment | Complete |
| Financial Risk Assessment and Scoring Enhancement | MP | Q3 | FRS | Complete |
| Oracle Financials Upgrade | MP | Q3 | ADS | Complete |
| Finance Systems Strategic Vision Planning | MP | Q3 | Study Complete | On Schedule |

Bold red text indicates status update since last presentation

Bold blue text indicates projects under stakeholder discussions through the end of Q4

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2019 Project Milestones

| Project Name | Type | Qtr | Project Commitment | Commitment Status |
|--|------|-----|--------------------|-------------------|
| <i>Business and Finance Products (continued...)</i> | | | | |
| FERC Form1 Redesign | AP | Q4 | Deployment | Not Started |
| Vendor Management Tool | AP | Q2 | SDS | Complete |
| Position Control System | AP | Q4 | FRS | On Schedule |

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2019 Project Milestones

| Project Name | Type | Qtr | Project Commitment | Commitment Status |
|--|------|-----|--------------------------------|-------------------------|
| Capacity Market Products | | | | |
| Enhancing Fuel and Energy Security | KP | Q2 | Study Complete | At Risk /Delayed |
| Competitive Entry Exemption for Increased CRIS | MP | Q3 | Market Design Complete | At Risk /Delayed |
| BSM Repowering | MP | Q3 | Market Design Complete | At Risk /Delayed |
| Tailored Availability Metric | MP | Q3 | Market Design Concept Proposed | At Risk /Delayed |
| Demand Curve Reset | MP | Q4 | Study Defined | On Schedule |
| CRIS for External - ROS Transmission Investments | AP | Q3 | Deployment | At Risk /Delayed |

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2019 Project Milestones

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|--|------|-----|------------------------|--------------------|
| <i>Capacity Market Products (continued...)</i> | | | | |
| External Capacity Performance & Obligations | AP | Q3 | Market Design Complete | On Schedule |
| ICAP AMS Redesign Phase III | AP | Q4 | Deployment | On Schedule |

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2019 Project Milestones

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|-------------------------------|------|-----|------------------------|-------------------|
| <i>DER Products</i> | | | | |
| DER Participation Model | NP | Q1 | Market Design Complete | Complete |
| | MP | Q4 | FRS | At Risk/Delayed |
| Enabling Technologies for DER | AP | Q2 | Study Complete | At Risk/Delayed |
| NYISO Pilot Framework | AP | Q4 | Study Complete | On Schedule |

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2019 Project Milestones

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|---|------|-----|------------------------|------------------------|
| <i>Energy Market Products</i> | | | | |
| Carbon Pricing | KP | Q2 | Market Design Complete | Complete |
| More Granular Operating Reserves (SOM) | KP | Q3 | Market Design Complete | At Risk/Delayed |
| ESR Participation Model (SOM) | KP | Q4 | Development Complete | At Risk/Delayed |
| Automated Default Mitigation Implementation | MP | Q3 | SDS | On Schedule |
| Ancillary Services Shortage Pricing (SOM) | MP | Q4 | Study Complete | On Schedule |
| Enhanced Fast Start Pricing | AP | Q3 | FRS | At Risk/Delayed |

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2019 Project Milestones

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|---|------|-----|--------------------------------|-------------------|
| <i>Energy Market Products (continued...)</i> | | | | |
| Constraint Specific Transmission Shortage Pricing (SOM) | AP | Q2 | Market Design Complete | At Risk/Delayed |
| Reserve for Resource Flexibility | AP | Q3 | Market Design Concept Proposed | On Schedule |

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2019 Project Milestones

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|---|------|-----|--------------------|-------------------------|
| <i>Enterprise Products</i> | | | | |
| Microsoft Systems Upgrade | MP | Q4 | Deployment | At Risk /Delayed |
| Network Infrastructure Upgrade | MP | Q4 | Deployment | On Schedule |
| Database Platform Upgrade -2019 | MP | Q4 | Deployment | Complete |
| Application Platform Upgrade Phase - 2019 | MP | Q4 | Deployment | On Schedule |
| Identity and Access Management (IAM) - 2019 | AP | Q3 | Deployment | Complete |
| IT Infrastructure Automation | AP | Q4 | Deployment | On Schedule |

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2019 Project Milestones

| Project Name | Type | Qtr | Project Commitment | Commitment Status |
|---|------|-----|----------------------|------------------------|
| <i>Operations & Reliability Products</i> | | | | |
| EMS/BMS System Upgrade | KP | Q4 | Deployment | At Risk/Delayed |
| EMS/BMS Workstation Upgrade | KP | Q4 | Deployment | At Risk/Delayed |
| PI System Upgrade | KP | Q4 | Deployment | At Risk/Delayed |
| Gurobi (MIP) Refresh | MP | Q4 | Deployment | On Schedule |
| TOA Platform Upgrade Phase III | AP | Q4 | Development Complete | At Risk/Delayed |

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2019 Project Milestones

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|--|------|-----|------------------------|-------------------------|
| <i>Planning Products</i> | | | | |
| Interconnection Project Queue (or Portal) Automation | MP | Q3 | Deployment | On Schedule |
| Comprehensive System Planning Process Review | MP | Q3 | Market Design Complete | At Risk /Delayed |
| Climate Change Impact and Resilience Study | MP | Q4 | Study Complete | On Schedule |
| Deliverability and Interconnection Process Redesign | NP | Q4 | Study Complete | On Schedule |

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- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



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