

2021 Final Project Budget Recommendation

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Budget and Priorities Working Group

August 27, 2020

Agenda

- Project Prioritization Phases, Milestones, and Timeline
- Project Updates
- Historic Budgets
- Stakeholder Scored Projects
- Final Market Project Budget Recommendation
- Final Enterprise Project Budget Recommendation
- Next Steps



Project Prioritization Phases, Milestones, and Timeline



Project Prioritization Process

Phase	Description
Identification	This phase involves developing the list of project candidates taking into consideration regulatory obligations, strategic initiatives, State of the Market recommendations, necessary infrastructure enhancements, product plans, stakeholder feedback, etc.
Prioritization	This phase involves a stakeholder survey and the NYISO prioritization of projects. The stakeholder survey will facilitate an assessment of the relative priority of the topic within the portfolio and is used to determine stakeholder appeal. The NYISO prioritization incorporates the stakeholder appeal into objective criteria that reflects strategic alignment, expected outcomes, risks, and ability to execute in development of a priority score for each Market project.
Evaluation	This phase involves performing a feasibility assessment based on detailed cost and labor estimates, dependencies, priority scores, and stakeholder feedback.
Recommendation	This phase involves proposing a feasible set of project deliverables and related budget requirements. The proposal is refined as needed based on stakeholder feedback.



Project Type

Project Type	Description
Mandatory	Strategic Initiatives and FERC Orders. These projects will be included in the budget
Continuing	Approved in a prior year and have progressed to either Software Design or Development Complete. Additional projects may be classified as Continuing based on stakeholder feedback. These projects will be included in the budget
Future	Consensus from stakeholder discussions of this projects priority relative to other projects has resulted in these projects NOT being prioritized and initiated in the coming budget year. Resources, time constraints, stakeholder feedback, and other project dependencies have been taken into consideration
Prioritize	Projects to be prioritized and included in the budget based on a feasibility assessment taking into consideration resources, time constraints, stakeholder feedback, priority score, and other project dependencies. Market projects are included in the stakeholder survey



Project Category

Project Category	Description
Enterprise	Includes internal-facing technology and back office support projects that have no market rule changes. This list includes projects that may be noticeable to Market Participants. These projects are NOT included in the stakeholder survey
Market	Projects associated with market rule(s) including market design and study projects as well as any project implementing market rule changes. These projects are included in the stakeholder survey unless they are Mandatory, Continuing, or Future



Project Scoring

Project Scoring	Description
NYISO Only	Enterprise projects that are not Mandatory, Continuing, or Future types are scored by the NYISO Only during the Prioritization phase. These projects are included in the budget based on a feasibility assessment taking into consideration resources, time constraints, priority score and other project dependencies.
Stakeholder Scored	Market projects that are not Mandatory, Continuing, or Future are included in the stakeholder survey and scored by the NYISO during the Prioritization phase. These projects are included in the budget based on a feasibility assessment taking into consideration resources, time constraints, stakeholder feedback, priority score, and other project dependencies.



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.
Issue Discovery	NYISO has facilitated education session(s) for stakeholder knowledge development of problem/issue, conducted stakeholder solicitation of potential solutions to address problem/issue, and summarized findings at a working group meeting for potential ranking and future project identification.

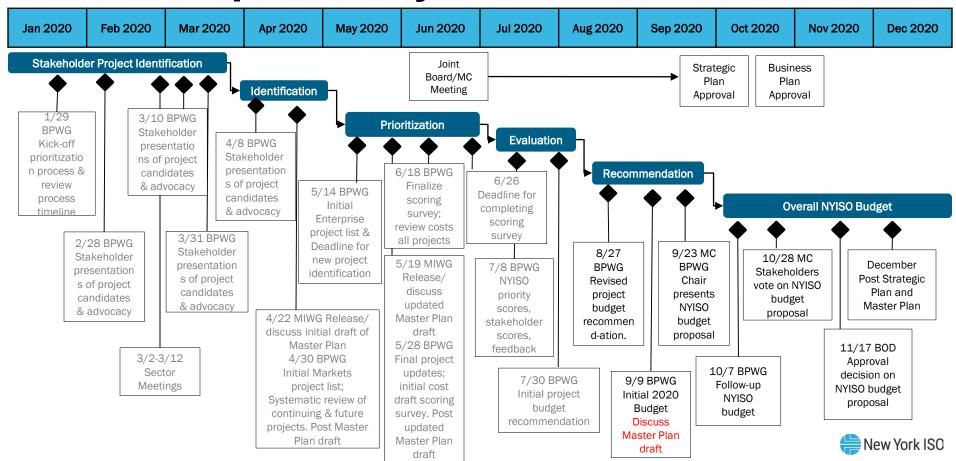


Project Prioritization Criteria * Same as used in 2019

			PRIO	RITIZATION CRITERIA		
0-4-4	Outhouto	Criteria	HIGH	MEDIUM	LOW	NONE
Category	Criteria	Weight	10	7	3	0
	Leader in Reliability	10	Significantly improves NYISO ability to maintain NYCA Reliability	Moderately improves NYISO ability to maintain NYCA Reliability	Minimally improves NYISO ability to maintain NYCA Reliability	None
Strategy	Leader in Market Design	10	Significantly improves NYISO Market Design	Moderately improves NYISO Market Design	Minimally improves NYISO Market Design	None
(If we do this project)	Leader in Technology Innovation	6	Significantly advances the IT strategy or technology improvement	Moderately advances the IT strategy or technology improvement	Minimally advances the IT strategy or technology improvement	None
	Sustain and Enhance Robust Q Supports tariff, FE		Supports tariff, FERC, NPCC, or NYSERC compliance requirements for Planning Process	Supports reliability planning and/or Business Plan objectives	Required for SRP planning study efficiency or continuous improvement initiatives	None
	NYISO Annual Cost Reduction	10	>\$500k savings-Direct and soft (labor)	>\$100k, <\$500k savings-Direct and soft (labor)	>\$10k,<\$100k savings - Direct and soft (labor)	<\$10k savings - Direct and soft (labor)
Outcome (If we do this project)	or more of survey respondents per sector and average across the survey respondent is Appeal 15 and average across the survey respondent points or more; or either raw or weighted		Broad Customer Support: Supported by 5 sectors with 25% or more of survey respondents per sector applying points and average across the survey respondents per sector of 5 points or more; or either raw or weighted scores equivalent to 20% of survey respondents applying 25 points or more	sector of 5 points or more; ; or either raw or weighted	Minimal Customer Support: Supported by 2 sectors with 25% or more of survey respondents per sector applying points and average across the survey respondents per sector of 5 points or more; or either raw or weighted scores equivalent to 5% of survey respondents applying 25 points or more	Little to No Customer Support
	Market Efficiency	10	·		Minimal improvement	No impact
	Post Production Sustainability	5	Existing support structure and skills	Support structure exists but needs minimal modifications	Support structure exists but needs major modifications	No skills or support structure in place
	Compliance	10	Significant risk of compliance violation	Moderate risk of compliance violation	Minimal risk of compliance violation	None
Risk (If we do NOT do this	Business Process (inclusive of technology impact on business process)	5	Enterprise Wide and/or Bid to Bill Impact. The project impacts processes in most departments	Multiple Department Impact.	Department Wide Impact The project impacts many processes within a department	Only one or two processes impacted
project)	Reliability and Market	Reliability and Market 10 Mission-critical systems becoming non operational or above \$1 million market impact \$100,000 - \$1 million market impact			Non mission-critical systems affected or \$10,000 - \$100,000 market impact	No or less than 10,000 impac
	Cost	Cost 4 Total project cost (current & future years) estimated		Total project cost (current & future years) estimated >\$500, <\$1M	Total project cost (current & future years) estimated >\$1N	
Execution (If we do this			Continuation of a multi-year project - postponement minimally disrupts value of previous investments	None		
project)	Complexity of Business and Technology	4	One area/technology	Cross-functional < 3 Areas/Technology	Highly Cross-functional/ Re-engineering	Complex, solution and impact unknown
	Compliance	8	Non-appealable, ordered by FERC / desired by NYISO and MP	Ordered by FERC, undesired by NYISO or MP	Potential order identified by FERC	No order identified by FERC



2021 Proposed Project Prioritization Timeline



Project Updates



Proposed Market Project Updates

- Climate Change Impact and Resilience Study project has been merged with Grid in Transition project
- DER Participation Model project description updated to reflect the 2021 project deliverable as Deployment of the SD WAN
- Hybrid Storage Model has been split into two projects, Hybrid Co-Located Model with 2021 deliverable of Deployment and Hybrid Aggregation Model with 2021 deliverable of Market Design Complete after consideration of stakeholder feedback
- Constraint Specific Transmission Shortage Pricing (SOM) project description updated to reflect change of deliverable from Software Design to Market Design Complete after consideration of stakeholder feedback



Proposed Enterprise Project Updates

- Additional Enterprise projects cut from the final project budget recommendation to resolve resource constraints:
 - Transactions Modifications and Confirmation Tool
 - Credit Price Spread Updates Virtual & External Transactions
 - Working Capital Application Enhancements
 - Minimum Oil Burn Enhancements
 - ACC Control Room Renovations
 - Access Management
 - Ringdown Replacement
 - Natural Gas Notices Enhancement Project
 - LFDR Upgrade and Enhancements
 - Demand Forecasting Operational Reporting Enhancements (SAS)
 - TCC Auction Billing



Historic Budgets



Historic Project Budget Comparison

	Estin	nated Cost (ir	millions)			
Project Budget*	Labor	Capital	Prof. Serv.	Total	Mandatory	Continuing
2021 Candidate Projects	16.41	14.50	13.82	44.73	11.73	19.64
2021 Final Recommendation	13.30 11.58	8.92 5.92	9.12 9.02	31.35 26.52	7.48 7.58	17.37 14.15
2020 Approved	13.57	5.73	12.40	31.69	10.48	10.74
2019 Approved	11.47	4.65	12.82	28.95	9.40	14.82
2018 Approved	11.01	7.96	4.64	23.61	2.15	8.80
2017 Approved	11.10	6.18	4.59	21.87	1.01	9.10
2016 Approved	11.50	6.32	3.78	21.60	4.17	12.06
2015 Approved	11.63	5.29	5.63	22.55	5.67	NA

^{* 2015-2019} exclude EMS/BMS Upgrade project as it had separate financing



Historic Project Budget Comparison

	Markets I					
Project Budget*	Labor	Capital	Prof. Serv.	Total	Mandatory	Continuing
2021 Final Recommendation	6.64 6.45	0.10	5.64 5.54	12.38 12.09	5.80	4.36 4.58
2020 Approved	6.89	0.27	5.85	13.01	10.10	0.77

	Enterprise					
Project Budget*	Labor	Capital	Prof. Serv.	Total	Mandatory	Continuing
2021 Final	6.66	8.82	3.49	18.97	1.67	13.11
Recommendation	5.13	5.82	5.49	14.44	1.77	9.57
2020 Approved	6.67	5.46	6.55	18.68	9.97	10.74

^{*} The NYISO did not have separate Market and Enterprise categories prior to 2020



Stakeholder Scored Projects

No changes from July 30th BPWG



Budget Recommendations for Stakeholder Scored Projects

Projects excluded from initial recommendation are shown as strikethrough

Proposed Projects		w Score (Avg.)	W	/eighted Score	ector Count	Sum of Scores	Appeal Score
Time Differentiated TCCs - Requested by Calpine & Vitol		13.2		19.5	3.0	35.7	10
Engaging the Demand Side		10.1		8.5	4.0	22.6	10
Expanding Peak Hour Forecasts		9.6		7.7	3.0	20.2	10
Grid Services from Renewable Generators - Requested by NYSERDA		8.7		7.4	4.0	20.1	10
Tailored Availability Metric Enhancements - Requested by Central Hudson, Con	-						
Edison, National Grid, New York Power Authority, and O&R		8.2		7.2	3.0	18.4	10
Constraint Specific Transmission Shortage Pricing (SOM)		5.6		5.1	4.0	14.7	10
CRIS Expiration Evaluation - Requested by NYS Utility Intervention Unit		5.4		5.6	2.0	13.0	10
More Granular Operating Reserves (SOM)		5.8		5.2	2.0	13.0	10
Demand Curve Translation Enhancement (SOM)		6.4		4.3	2.0	12.7	10
5 Minute Transaction Scheduling - Requested by HQUS		5.5		5.1	2.0	12.7	10

= 10, High Stakeholder
Appeal
= 7, Medium Stakeholder
Appeal
= 3, Low Stakeholder
Appeal
= 0, Little to None
Stakeholder Appeal



Budget Recommendations for Stakeholder Scored Projects

Projects excluded from initial recommendation are shown as strikethrough

Proposed Projects		aw Score (Avg.)	۷	Veighted Score	Sector Count		Sum of Scores	Appeal Score
Reserve Enhancement for Constrained Areas (SOM)		3.4		7.2		2.0	12.6	10
Large Scale Solar on Dispatch		4.6		4.5		2.0	11.1	7
Reserving Capacity for TCC Balance-of-Period (BOP) Auctions		5.2		3.8		1.0	10.1	10
Enhanced BSM Forecasts Assumptions (SOM)		2.1		1.8		0.0	3.9	3
Mitigation Thresholds Review		1.1		1.7		1.0	3.8	3
Capacity Demand Curve Adjustments		2.2		0.9		0.0	3.2	3
Multi-Level References		1.2		1.6		0.0	2.8	3
Adjustment of Energy Offer/Bid Floor (SOM)		1.0		1.2		0.0	2.2	0
TCC Credit Enhancements		0.5		0.8		0.0	1.3	0
Long Island Reserve Constraint Pricing (SOM)		0.2		0.7		0.0	0.9	0

= 10, High Stakeholder
Appeal
= 7, Medium Stakeholder
Appe al
= 3, Low Stakeholder
Appe al
= 0, Little to None
Stakeholder Appeal



Final Market Project Budget Recommendation



					Estimated Cost (in m				
Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total	
1	TCC Credit Enhancements	Business and Finance Products	Prioritize	Deployment	0.14	0.00	0.00	0.14	
2	BSM Renewables Exemption Study	Capacity Market Products	Mandatory	Deployment	0.03	0.00	0.03	0.06	
3	CRIS Tracking	Capacity Market Products	Mandatory	Software Design	0.12	0.00	0.00	0.12	
4	Demand Curve Reset	Capacity Market Products	Mandatory	Deployment	0.09	0.00	0.10	0.19	
5	Tailored Availability Metric	Capacity Market Products	Continuing	Deployment	0.05	0.00	0.00	0.05	
6	Enhanced BSM Forecasts Assumptions (SOM)	Capacity Market Products	Prioritize	Market Design Concept Proposed	0.07	0.00	0.00	0.07	
7	Comprehensive Mitigation Review	Capacity Market Products	Continuing	Market Design Complete	0.22	0.00	0.25	0.47	



					Esti	Estimated Co		ons)
Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
8	Capacity Demand Curve Adjustments	Capacity Market Products	Prioritize	Study Complete	0.18	0.00	0.25	0.43
. ч	Capacity Transfer Rights for Internal Transmission Upgrades (SOM)	Capacity Market Products	Future					
10	Locational Marginal Pricing of Capacity (SOM)	Capacity Market Products	Future					
11	Expanding Peak Hour Forecasts	Capacity Market Products	Prioritize	Market Design Concept Proposed	0.04	0.00	0.00	0.04
12	Demand Curve Translation Enhancement (SOM)	Capacity Market Products	Prioritize	Market Design Complete	0.04	0.00	0.00	0.04
13	Monthly Demand Curves (SOM)	Capacity Market Products	Future					
14	CRIS Expiration Evaluation – Requested by NYS Utility Intervention Unit	Capacity Market Products	Prioritize	Market Design Concept Proposed	0.11	0.00	0.00	0.11



					Esti	Estimated Cost (in millions)		
Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
15	Tailored Availability Metric Enhancements — Requested by Central Hudson, Con Edison, National Grid, New York Power Authority, and O&R	Capacity Market Products	Prioritize	Market Design Concept Proposed	0.06	0.00	0.05	0.11
16	Climate Change Impact and Resilience Study*1	DER Products	Continuing	Market Design Concept Proposed	0.02	0.00	0.00	0.02
17	DER Participation Model	DER Products	Mandatory	Deployment*2 Under Development	2.60	0.10	2.58	5.27
18	Expanding Capacity Eligibility	DER Products	Mandatory	Deployment	0.17	0.00	0.00	0.17
19	Engaging the Demand Side	DER Products	Prioritize	Issue Discovery	0.09	0.00	0.00	0.09
20	Climate Change and Grid in Transition *1	DER Products	Continuing	Issue Discovery	0.21	0.00	0.40	0.61
21	Hybrid <mark>Co-Located Storage-</mark> Model ^{*3}	DER Products	Continuing	Deployment	0.82	0.00	0.65 0.80	1.48 1.62
22	Hybrid Aggregation Model ^{*3}	DER Products	Continuing	Market Design Complete	0.09	0.00	0.00	0.09

^{*1} Climate Change Impact and Resilience Study merged with Grid in Transition

^{*2} Deployment deliverable associated with the DER Participation Model updated to deployment of SD WAN (see project description)

^{*3} Hybrid Storage Model has been split into two projects to provide two deliverables

					Esti	mated Cos	t (in milli	ons)
Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
23	Ongoing TSO and DSO Coordination	DER Products	Continuing	Issue Discovery	0.07	0.00	0.05	0.12
24	Ancillary Services Shortage Pricing (SOM)	Energy Market Products	Continuing	Deployment	0.34	0.00	0.30	0.64
25	Reserves for Resource Flexibility	Energy Market Products	Continuing	Deployment	0.26	0.00	0.23 0.34	0.48 0.59
: 'Jh	5 Minute Transaction Scheduling - Requested by HQUS	Energy Market Products	Prioritize	Market Design Complete	0.22	0.00	0.00	0.22
27	Carbon Pricing	Energy Market Products	Continuing	Software Design	0.39	0.00	0.00	0.39
28	Constraint Specific Transmission Shortage Pricing (SOM)	Energy Market Products	Prioritize	Software Design Market Design Complete	0.31 0.06	0.00	0.51 0.00	0.82 0.06
29	Large Scale Solar on Dispatch	Energy Market Products	Prioritize	Deployment	0.20	0.00	0.20 0.35	0.40 0.55



					Esti	mated Cos	st (in milli	ons)
Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
30	Mitigation Thresholds Review	Energy Market Products	Prioritize	Functional Requirements	0.08	0.00	0.00	0.08
31	Multi-Level References	Energy Market Products	Prioritize	Software Design	0.06	0.00	0.02	80.0
32	Reserve Enhancement for Constrained Areas (SOM)	Energy Market Products	Prioritize	Study Complete	0.07	0.00	0.35	0.42
33	Adjustment of Energy Offer/Bid Floor (SOM)	Energy Market Products	Prioritize	Market Design Complete	0.05	0.00	0.00	0.05
34	Grid Services from Renewable Generators - Requested by NYSERDA	Energy Market Products	Prioritize	Study Complete	0.05	0.00	0.00	0.05
35	Long Island Reserve Constraint Pricing (SOM)	Energy Market Products	Prioritize	Market Design Complete	0.09	0.00	0.00	0.09
36	Eliminate Fees for CTS Transactions with PJM (SOM)	Energy Market Products	Future					



					Esti	mated Cos	st (in milli	ons)
Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
37	Enhanced PAR Modeling (SOM)	Energy Market Products	Future					
38	Long Island PAR Optimization and Financial Rights (SOM)	Energy Market Products	Future					
39	RTC-RTD Convergence Improvements (SOM)	Energy Market Products	Future					
40	More Granular Operating Reserves (SOM)	Energy Market Products	Prioritize	Development Complete	0.47	0.00	0.10	0.57
41	Reserving Capacity for TCC Balance-of-Period (BOP) Auctions	TCC Products	Prioritize	Functional Requirements	0.07	0.00	0.00	0.07
42	Time Differentiated TCCs - Requested by Calpine & Vitol	TCC Products	Prioritize	Market Design Concept Proposed	0.10	0.00	0.00	0.10



Final Enterprise Project Budget Recommendation



Note: Red strikethrough represents additional projects cut after the initial budget recommendation

Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
1	Enterprise Information Management - Data Integration Phase IV	Business and Finance Products	Continuing	Deployment	0.85	0.10	1.60	2.55
2	FERC Form1 Redesign	Business and Finance Products	Mandatory	Deployment	0.04	0.00	0.00	0.04
3	NYISO Budget (Rate Schedule 1) Cost Recovery Update	Business and Finance Products	Prioritize	Functional Requirements	0.04	0.00	0.00	0.04
4	Transactions Modifications and Confirmation Tool	Business and Finance Products	Continuing	Deployment	0.17	0.00	0.00	0.17

Functional

Requirements

Functional

Requirements

Deployment

0.04

0.06

0.07

0.00

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0.00

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0.04

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Business and

Finance Products

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Estimated Cost (in millions)

Transactions

5

Credit Price Spread Updates - Virtual & External

Working Capital Application Enhancements

Accounting and Settlements Integration

Prioritize

Prioritize

Prioritize

Note: Red strikethrough represents additional projects cut after the initial budget recommendation

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Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
8	Minimum Oil Burn Enhancements	Business and Finance Products	Prioritize	Development Complete	0.11	0.00	0.00	0.11
9	SDX API Pilot	Business and Finance Products	Prioritize	Deployment	0.14	0.00	0.00	0.14
10	Stakeholder Services Salesforce CRM Enhancements	Business and Finance Products	Prioritize	Deployment	0.26	0.00	0.21	0.47
11	Demand Curve Reset Tool Updates	Capacity Market Products	Prioritize	Deployment	0.03	0.00	0.00	0.03
12	DAM Congestion Settlement Re-Allocation	Energy Market Products	Continuing	Deployment	0.06	0.00	0.00	0.06
13	Energy Market Software Performance	Energy Market Products	Prioritize	Deployment	0.15	0.00	0.40	0.55
14	ACC Control Room Renovations	Enterprise Products	Continuing	Deployment	0.27	3.10	0.00	3.37



Estimated Cost (in millions)

Note: Red Strikethrough	represents additional	projects cut after the	initiai budget recommendati	on

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Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
15	Access Management	Enterprise Products	Prioritize	Deployment	0.50	0.00	0.00	0.50
16	Application Platform Upgrade	Enterprise Products	Prioritize	Deployment	0.37	0.00	0.00	0.37
17	Database Upgrade	Enterprise Products	Prioritize	Deployment	0.27	0.00	0.01	0.29
18	IT Infrastructure Automation	Enterprise Products	Continuing	Deployment	0.25	0.08	0.20	0.53
19	IT Service Management Improvements	Enterprise Products	Continuing	Deployment	0.30	0.00	0.20	0.50
20	Network Infrastructure Upgrade	Enterprise Products	Continuing	Deployment	0.22	2.69	0.00	2.91
21	2021 NERC CIP Audit	Enterprise Products	Mandatory	Study Complete	0.52	0.00	0.00	0.52



Estimated Cost (in millions)

Note:	Red strikethroug	th represents addition	al projects cut afte	er the initial budge	et recommendation

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Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total	
22	Linux and Storage Infrastructure Refresh	Enterprise Products	Prioritize	Deployment	0.15	0.38	0.00	0.52	
23	Ringdown Replacement	Enterprise Products	Prioritize	Deployment	0.08	0.00	0.00	0.08	
24	Unified Communications Platform	Enterprise Products	Prioritize	Study Complete	0.06	0.01	0.07	0.14	
25	Windows System Upgrade	Enterprise Products	Prioritize	Deployment	0.25	0.67	0.10	1.02	
26	Application Security Enhancements	Enterprise Products	Prioritize	Deployment	0.09	0.14	0.00	0.24	
27	Gurobi (MIP) Migration and Upgrade	Enterprise Products	Prioritize	Deployment	0.09	0.23	0.00	0.32	
28	Web Content Management System Upgrade	Enterprise Products	Prioritize	Deployment	0.05	0.00	0.35	0.40	



Estimated Cost (in millions)

Note: Red strikethrough represents additional projects cut after the initial budget recommendation

Estimated	Cost (in millions)

Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
29	UPS Replacement	Enterprise Products	Prioritize	Deployment	0.07	1.10	0.00	1.17
30	Automated Default Bid Mitigation	Operations & Reliability Products	Continuing	Deployment	0.10	0.00	0.00	0.10
31	Load Forecasting System Upgrade and Build Out	Operations & Reliability Business and Finance Products	Prioritize	Deployment	0.28	0.00	0.07	0.35
32	Transmission and Generation Scheduling System (TAGSS)	Operations & Reliability Products	Continuing	Development Complete	0.44	1.58	0.00	2.02
33	NextEra Transmission Owner Integration	Operations & Reliability Products	Mandatory	Deployment	0.62	0.09	0.40	1.12
34	EMS Visualization Native Pl Viewer - Interface and Event Tool	Operations & Reliability Products	Prioritize	Deployment	0.05	0.13	0.00	0.18
35	EMS/BMS Operational Enhancements	Operations & Reliability Products	Continuing	Deployment	0.09	0.00	0.80	0.89



Note: Red strikethrough represents additional projects cut after the initial budget recommendation

					Estimated Cost (in millions)			ions)
Item	Project Name	Product Area	Project Type	Proposed Deliverable	Labor	Capital	Prof. Serv.	Total
36	Grid Guardian Network Topology Feature Implementation	Operations & Reliability Products	Prioritize	Deployment	0.07	0.13	0.00	0.20
37	Natural Gas Notices Enhancement Project	Operations & Reliability Products	Prioritize	Functional Requirements	0.02	0.00	0.00	0.02
38	IT Development and Control of Compliance Reports	Operations & Reliability Products	Prioritize	Deployment	0.10	0.00	0.00	0.10
39	LFDR Upgrade and Enhancements	Planning Products	Prioritize	Functional Requirements	0.11	0.00	0.00	0.11
40	Demand Forecasting Operational Reporting Enhancements (SAS)	Planning Products	Prioritize	Functional Requirements	0.04	0.00	0.00	0.04
41	ePlanning Migration	Planning Products	Prioritize	Functional Requirements	0.15	0.00	0.00	0.15
42	Dynamic Modeling Database Enhancements	Planning Products	Prioritize	Deployment	0.04	0.09	0.00	0.13
43	TCC Auction Billing	TCC Products	Prioritize	Deployment	0.11	0.00	0.00	0.11



Next Steps



Next Steps

- Written feedback on the 2021 Project Budget Prioritization Process may be sent to:
 - Send to Brian Hurysz at bhurysz@nyiso.com : (518) 461-6405
- At the September 9th BPWG, the NYISO will present the initial NYISO budget
- On September 23rd, the BPWG Chair will present the NYISO budget proposal at the Management Committee meeting



Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

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





Questions?

