

2022 Market Project Updates,

Costs & Stakeholder Survey

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June 8, 2021, Krey Corporate Center

Agenda

- Project Prioritization Phases, Milestones, and Timeline
- Scoring Examples
- Stakeholder Survey
- Stakeholder Feedback and NYISO Response
- 2022 Market Project Candidates Updates, Costs, and Deliverables
- Next Steps



Project Prioritization Phases, Milestones, and Timeline



Project Prioritization Process

| Phase | Description |
|---------------------------------------|---|
| Stakeholder Project Identification | Stakeholders may present project ideas at stakeholder meetings and sector meetings, receive feedback, and refine their proposal during this phase before the NYISO provides a comprehensive list of candidate projects for consideration. |
| Identification | The NYISO develops a Markets and Enterprise project candidate lists based on regulatory obligations, strategic initiatives, State of the Market recommendations, infrastructure enhancements, product plans, and stakeholder proposals. These project candidates are presented and further refined with stakeholder input during this phase. |
| 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 reflect 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. |

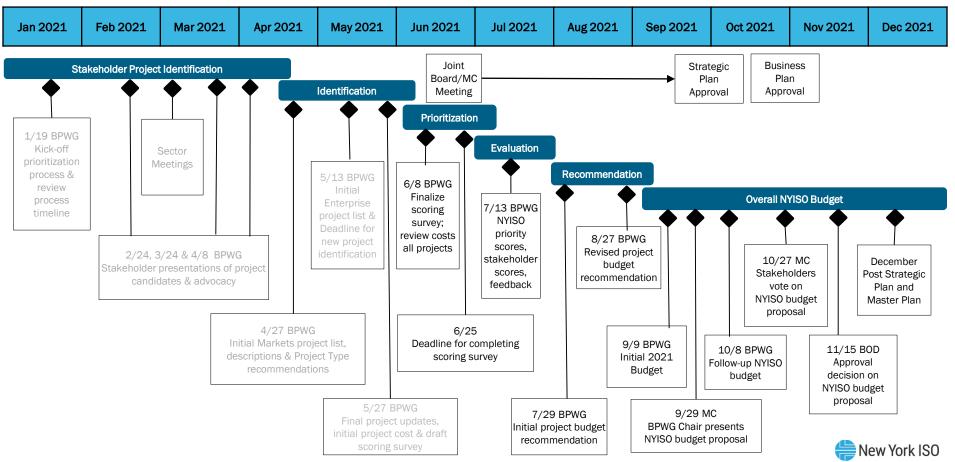


Project Category

| 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 scored by the NYISO depending on their Project Type, 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 scored by the NYISO and included in the stakeholder survey depending on their Project Type. |



2022 Proposed Project Prioritization Timeline



Project Type

| Project Type | Description |
|--------------|--|
| Mandatory | Strategic Initiatives and FERC Orders. These projects will be included in the budget |
| Continuing | Projects approved in a prior year and that have progressed to either Software Design, Development Complete, or Deployment will generally be proposed as Continuing. 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. |



Survey Scoring

| Score Type | Description |
|---------------|--|
| Raw | Average of scores from each organization that has completed the stakeholder survey |
| Weighted | Scores from voting members only are averaged across the sector they are in and weighted based on governance voting weights |
| Sector | Number of sectors that supported a particular project. A sector is only counted if at least 25% or more of survey respondents from sector have allocated points and average across the survey respondents from the sector is 5 points or more. |
| Sum of Scores | The combined total of Raw, Weighted and Sector scores. |



Survey Appeal Definition * Same as used in 2019

| Criteria | Criteria | HIGH | MEDIUM | LOW | NONE |
|----------|----------|--|---|--|--|
| Ontena | Weight | 10 | 3 | 0 | |
| Appeal | 15 | Broad Customer Support: Supported by 5 sectors; or either Raw or Weighted scores >= 5.00 (5.00 is equivalent to 20% of survey respondents applying 25 points or more) | Moderate Customer Support: Supported by 4 sectors; or either Raw or Weighted scores >= 2.50 (2.50 is equivalent to 10% of survey respondents applying 25 points or more) | Minimal Customer Support: Supported by 2 or 3 sectors; or either Raw or Weighted scores >= 1.25 (1.25 is equivalent to 5% of survey respondents applying 25 points or more) | Little to No Customer Support |



Project Prioritization Criteria * Same as used in 2019

| | PRIORITIZATION CRITERIA | | | | | | | | | |
|---------------------------------------|---|--------|--|--|---|---|--|--|--|--|
| Ostaranı | Oritorio | LOW | NONE | | | | | | | |
| Category | Criteria | Weight | 10 | 7 | 3 | 0 | | | | |
| | Leader in 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 Planning Processes | 9 | | 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 savings - Direct and soft (labor) | | | | |
| Outcome (If we do this project) | points or more; or either raw or weighted scores equivalent | | 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 | 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 | Significant improvement | Moderate improvement | 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) | 1 5 | Enterprise Wide and/or Bid to Bill Impact. The project impacts processes in most departments | Multiple Department Impact. | If he project impacts many processes within a | Only one or two processes impacted | | | | |
| project) | Reliability and Market | | Mission-critical systems becoming non operational or above \$1 million market impact | Non mission-critical systems becoming non operational or \$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 | 4 | Total project cost (current & future years) estimated <\$100k | t cost (current & future years) estimated Total project cost (current & future years) estimated >\$100k, <\$500k Total project cost (current & future years) estimated >\$100k, <\$1M | | Total project cost (current & future years) estimated >\$1N | | | | |
| Execution (If we do this | Multi-Year Dependency | | | Continuation of a multi-year project - postponement moderately disrupts value of previous investments | 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 | | | | |



Milestone Definitions

| Milestone | Definition |
|--|--|
| 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. |
| 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. |
| Study Complete | Scope of work to be performed has been completed; results and recommendations have been presented to the appropriate Business Owners and stakeholders. |
| 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 pr for a vote at the BIC or MC to define further action on the proposal. | |
| Functional Requirements | NYISO has completed documentation of the functional requirements and the Business Owner has approved. |
| Architectural Design | The architectural design document is complete and software development is ready to begin. |
| Projects with the followi | ng Milestones will generally be proposed as Continuing in future years, subject to Stakeholder input |
| 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. |



Scoring Examples



Governance Weights from 2020 Stakeholder

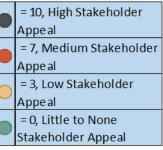
Survey

| Sector | Sub-Sector | Eligible Percentage | Subsector Percentage | Num. Eligible Orgs. | Num. Responses | Score Weights |
|---------------------------------|--------------------------------|------------------------|-------------------------|------------------------|-------------------|------------------|
| End Use | | 20.0% | | 15 | 13 | |
| | Gov. Sm. Cons. & Retail Aggr. | | 1.8% | 2 | 2 | 2.0% |
| | Gov. State-wide Cons. Advocate | | 2.7% | 1 | 1 | 3.0% |
| | Governmental Agency | | 2.0% | 1 | 0 | 0.0% |
| | Large Consumer | | 9.0% | 5 | 4 | 10.0% |
| | Small Consumer | | 4.5% | 6 | 6 | 5.0% |
| Generation Owner | | 21.5% | | 17 | 2 | 21.5% |
| Other Supplier | | 21.5% | | 33 | 12 | 21.5% |
| Public Power / Environmental | | 17.0% | | 20 | 13 | |
| | Environmental | | 2.0% | 7 | 2 | 2.0% |
| | Munis & Co-Ops | | 7.0% | 11 | 9 | 7.0% |
| | State Power Authorities | | 8.0% | 2 | 2 | 8.0% |
| Transmission Owner | | | 20.0% | 4 | 4 | 20.0% |
| Non-Voting | | 0.0% | | 62 | 11 | 0.0% |



Survey Scoring & Appeal Determination from 2020 Stakeholder Survey

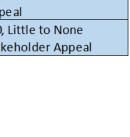
| Proposed Projects | aw Score (Avg.) | ١ | Veighted Score | | ector Count | Sum of Scores | Appeal Score | |
|--|--------------------|---|-------------------|------------|----------------|------------------|-----------------|---------|
| Time Differentiated TCCs – Requested by Calpine & Vitol | 13.2 | | 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 | \circ |
| 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 | 0 | 2.0 | 13.0 | 10 | |
| More Granular Operating Reserves (SOM) | 5.8 | | 5.2 | 0 | 2.0 | 13.0 | 10 | |
| Demand Curve Translation Enhancement (SOM) | 6.4 | | 4.3 | 0 | 2.0 | 12.7 | 10 | |
| 5 Minute Transaction Scheduling - Requested by HQUS | 5.5 | | 5.1 | \bigcirc | 2.0 | 12.7 | 10 | |





Survey Scoring & Appeal Determination from 2020 Stakeholder Survey

| Proposed Projects | | w Score (Avg.) | | eighted Score | | Sector Count | Sum of Scores | Appeal Score | = 10, High Stakeholder Appeal |
|---|------------|-------------------|------------|------------------|------------|-----------------|------------------|-----------------|----------------------------------|
| Reserve Enhancement for Constrained Areas (SOM) | | 3.4 | | 7.2 | \bigcirc |) 2.0 | 12.6 | 10 | = 7, Medium Stakeholder |
| Large Scale Solar on Dispatch | | 4.6 | | 4.5 | \bigcirc | 2.0 | 11.1 | 7 | Appeal |
| Reserving Capacity for TCC Balance-of-Period (BOP) Auctions | | 5.2 | | 3.8 | |) 1.0 | 10.1 | 10 | = 3, Low Stakeholder |
| Enhanced BSM Forecasts Assumptions (SOM) | \bigcirc | 2.1 | \bigcirc | 1.8 | | 0.0 | 3.9 | 3 | Appeal = 0, Little to None |
| Mitigation Thresholds Review | | 1.1 | 0 | 1.7 | |) 1.0 | 3.8 | 3 | Stakeholder Appeal |
| Capacity Demand Curve Adjustments | \bigcirc | 2.2 | 0 | 0.9 | 0 | 0.0 | 3.2 | 3 | · · · |
| Multi-Level References | | 1.2 | \bigcirc | 1.6 | | 0.0 | 2.8 | 3 | |
| Adjustment of Energy Offer/Bid Floor (SOM) | \bigcirc | 1.0 | | 1.2 | \bigcirc | 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 | |





Stakeholder Survey



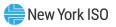
Stakeholder Scoring

- Registered shared governance organizations including non-voting participants and affiliates will have an opportunity to score proposed Market projects in a stakeholder survey
 - Only Market projects of type Prioritize are included in survey
 - Proposed Enterprise projects are not included in the stakeholder survey
- Each organization may provide one survey response with 100 points available to assign to projects based on their priorities
- There is a comment section after each project as well as at the end of survey to supplement scoring information
- All survey results are public, including identifying organization that provided the scoring and any comments
- The NYISO uses the survey scores to calculate a stakeholder Appeal, which is one of the criteria used by the NYISO to rank projects



Stakeholder Scoring Survey

- A draft of the survey and contacts to receive survey are included with today's BPWG materials for review
 - Designated alternative contacts to receive the survey link are shown in red
 - Contact Brian Hurysz or Member Relations for any survey related issues including any changes to contact survey is being sent to
- Each organization will be provided a unique link to access their survey that will be included in email sent to the MC representative
- MC representative can provide others the ability to access survey by sharing the link
- Anyone with survey link can submit the survey
- Once submitted, the link will no longer provide access the survey
 - The survey link can be reset if there is a need to revise after submission



Stakeholder Scoring Survey Timeline

- All project cost information to be posted with June 8th BPWG materials
- Official survey will be distributed June 8th after BPWG
 - If last minute updates to survey are made at June 8th BPWG, this may delay the survey distribution
- Deadline for completing stakeholder survey is June 25th
- Survey results and the NYISO scoring to be reviewed at the July 13th BPWG



Stakeholder Feedback and NYISO Response



DRAFT – FOR DISCUSSION PURPOSES ONLY

Stakeholder Feedback and NYISO Response

| Stakeholder Feedback | NYISO Response |
|--|--|
| Minor project description updates for CRIS Tracking, Constraint Specific Transmission Shortage Pricing (SOM) and Improved Duct-Firing Cycle Modeling (SOM)based on May 27, 2021 BPWG discussion | Updates have been reflected in today's posted materials |
| Significant project description updates for Advancing NYISO Transparency - Requested by DC Energy and Dynamic Reserves (SOM) based on May 27, 2021 BPWG discussion | Updates have been reflected in today's posted materials |
| Requested the NYISO consider making CRIS Expiration Evaluation Continuing | Feedback was provided both for and against making this project continuing. The NYISO believes the best way to determine stakeholder priority for this effort is to include it in the survey. The NYISO has not made enough progress with this effort to justify treating it as a Continuing project. |

ork ISO

Stakeholder Feedback and NYISO Response

| Stakeholder Feedback | NYISO Response |
|--|---|
| Stakeholders requested the NYISO consider making Hybrid Aggregation Model Continuing | The NYISO appreciates that there are many high value projects for stakeholders to consider for prioritization in 2022. The NYISO has not made enough progress with this effort to justify treating it as a Continuing project. Therefore, the NYISO recommends that this effort be included in the survey for stakeholders to score thereby assisting the NYISO in prioritizing all high value projects. |
| Consider what would happen if Internal Controllable Lines is not prioritized as high value by stakeholders | If this project is not considered of high value to stakeholders, it presumably would not be included in the budget recommendation |



2022 Market Project Candidates - Updates, Costs, and Deliverables



Project Descriptions

- The NYISO has developed project descriptions for 41 proposed Market projects
 - O Business & Finance, 14 Capacity Market, 7 New Resource, 18 Energy Markets, 1 Planning & 2 TCC Market
 - 4 Mandatory, 2 Continuing, 29 Prioritize & 5 Future
- Updated project descriptions for CRIS Tracking and Advancing NYISO Transparency - Requested by DC Energy are included with today's posted materials



Mandatory 2022 Market Projects

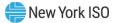
| Item | Project | Product Area | Project Type | 2022 Proposed Deliverable | 2021 Deliverable | Labor | Capital | Prof. Serv. | Total | | | |
|------|--|--------------------|-----------------|------------------------------|---------------------|-------|---------|----------------|-------|--|--|--|
| 1 | Capacity Value Study | Capacity Market | Mandatory | Study Defined | | 0.18 | 0.00 | 0.45 | 0.63 | | | |
| 2 | CRIS Tracking | Capacity Market | Mandatory | Development Complete | Software Design | 0.17 | 0.00 | 0.00 | 0.17 | | | |
| 3 | DER Participation Model | New Resource | Mandatory | Deployment | Deployment | 4.67 | 0.10 | 6.50 | 11.27 | | | |
| 4 | Support TSO and DSO Coordination Efforts | New Resource | Mandatory | Issue Discovery | Issue Discovery | 0.12 | 0.00 | 0.20 | 0.32 | | | |



Estimated Cost (in millions)

Continuing 2022 Market Projects

| | | | | | | | | | lions) |
|------|---------------------------------|--------------------|-----------------|---------------------------|---------------------------|-------|---------|----------------|--------|
| Item | Project | Product Area | Project Type | 2022 Proposed Deliverable | 2021 Deliverable | Labor | Capital | Prof. Serv. | Total |
| 5 | Comprehensive Mitigation Review | Capacity Market | Continuing | Deployment | Market Design Complete | 0.16 | 0.00 | 0.60 | 0.76 |
| 6 | Grid in Transition | New Resource | Continuing | Study Complete | Issue Discovery | 0.17 | 0.00 | 0.50 | 0.67 |



| | | | | | | Estimated Cost (in millions) | | | |
|------|---|--------------------|-----------------|-----------------------------------|---------------------------|------------------------------|---------|----------------|-------|
| Item | Project | Product Area | Project Type | 2022 Proposed Deliverable | 2021 Deliverable | Labor | Capital | Prof. Serv. | Total |
| 7 | 15-Minute Transactions Enhancement - Requested by HQUS | Energy Market | Prioritize | Market Design Complete | | 0.09 | 0.00 | 0.25 | 0.34 |
| 8 | 5 Minute Transaction Scheduling - Requested by HQUS | Energy Market | Prioritize | Market Design Concept Proposed | | 0.10 | 0.00 | 0.25 | 0.35 |
| 9 | Adjustment of Energy Offer/Bid Floor (SOM) | Energy Market | Prioritize | Market Design Complete | | 0.06 | 0.00 | 0.00 | 0.06 |
| 10 | Advancing NYISO Transparency - Requested by DC Energy | Energy Market | Prioritize | Deployment | | 0.13 | 0.00 | 0.25 | 0.38 |
| 11 | Capacity Demand Curve Adjustments | Capacity Market | Prioritize | Study Complete | | 0.13 | 0.00 | 0.35 | 0.48 |
| 12 | Constraint Specific Transmission Shortage Pricing (SOM) | Energy Market | Prioritize | Functional Requirements | Market Design Complete | 0.10 | 0.00 | 0.00 | 0.10 |
| 13 | Coordination of Interconnection and Transmission Expansion Study | Planning | Prioritize | Market Design Complete | | 0.06 | 0.00 | 0.00 | 0.06 |



| | | | | | | Estimated Cost (in millions) | | | |
|------|--|--------------------|-----------------|-----------------------------------|-----------------------------------|------------------------------|---------|----------------|-------|
| Item | Project | Product Area | Project Type | 2022 Proposed Deliverable | 2021 Deliverable | Labor | Capital | Prof. Serv. | Total |
| 14 | CRIS Expiration Evaluation | Capacity Market | Prioritize | Market Design Complete | Market Design Concept Proposed | 0.13 | 0.00 | 0.00 | 0.13 |
| 15 | Demand Curve Translation Enhancement (SOM) | Capacity Market | Prioritize | Market Design Complete | | 0.06 | 0.00 | 0.00 | 0.06 |
| 16 | Dynamic Reserves (SOM) | Energy Market | Prioritize | Market Design Concept Proposed | Study Complete | 0.12 | 0.00 | 0.40 | 0.52 |
| 17 | Eliminate Fees for CTS Transactions with PJM (SOM) | Energy Market | Prioritize | Market Design Concept Proposed | | 0.05 | 0.00 | 0.00 | 0.05 |
| 18 | Eliminate Offline GT Pricing (SOM) | Energy Market | Prioritize | Market Design Complete | | 0.11 | 0.00 | 0.00 | 0.11 |
| 19 | Engaging the Demand Side | New Resource | Prioritize | Study Complete | Issue Discovery | 0.18 | 0.00 | 0.25 | 0.43 |
| 20 | Enhanced BSM Forecasts Assumptions (SOM) | Capacity Market | Prioritize | Market Design Concept Proposed | | 0.12 | 0.00 | 0.00 | 0.12 |



| ltem | Project | Product Area | Project Type | 2022 Proposed Deliverable | 2021 Deliverable | Labor | Capital | Prof. Serv. | Total |
|------|---|--------------------|-----------------|---|-----------------------------------|-------|---------|----------------|-------|
| 21 | Expanding Application of Peak Hour Forecasts | Capacity Market | Prioritize | Market Design Complete | Market Design Concept Proposed | 0.08 | 0.00 | 0.00 | 0.08 |
| 22 | Grid Services from Renewable Generators - Requested by NYSERDA | Energy Market | Prioritize | Market Design Concept Proposed | Study Complete | 0.10 | 0.00 | 0.15 | 0.25 |
| 23 | Hybrid Aggregation Model | New Resource | Prioritize | Functional Requirements | Market Design Complete | 0.23 | 0.00 | 0.30 | 0.53 |
| 24 | Improve Duct-Firing Modeling (SOM) | Energy Market | Prioritize | Market Design Complete | | 0.10 | 0.00 | 0.30 | 0.40 |
| 25 | Improving Capacity Accreditation (SOM) | Capacity Market | Prioritize | Market Design Complete Concept Proposed | | 0.32 | 0.00 | 0.40 | 0.72 |
| 26 | Internal Controllable Lines | New Resource | Prioritize | Market Design Complete | | 0.36 | 0.00 | 0.40 | 0.76 |
| 27 | Lines in Series Constraint Pricing | Energy Market | Prioritize | Study Complete | | 0.06 | 0.00 | 0.00 | 0.06 |



Estimated Cost (in millions)

| | | | | | | Estimated Cost (in millions) | | | | |
|------|---|--------------------|-----------------|-----------------------------------|----------------------------|------------------------------|---------|----------------|-------|--|
| Item | Project | Product Area | Project Type | 2022 Proposed Deliverable | 2021 Deliverable | Labor | Capital | Prof. Serv. | Total | |
| 28 | Locational Marginal Pricing of Capacity (SOM) | Capacity Market | Prioritize | Market Design Concept Proposed | | 0.27 | 0.00 | 0.65 | 0.92 | |
| 29 | Long Island Reserve Constraint Pricing (SOM) | Energy Market | Prioritize | Market Design Complete | | 0.09 | 0.00 | 0.00 | 0.09 | |
| 30 | Monthly Demand Curves (SOM) | Capacity Market | Prioritize | Issue Discovery | | 0.11 | 0.00 | 0.00 | 0.11 | |
| 31 | More Granular Operating Reserves (SOM) | Energy Market | Prioritize | Market Design Concept Proposed | | 0.11 | 0.00 | 0.00 | 0.11 | |
| 32 | Multi-Level References | Energy Market | Prioritize | Functional Requirements | | 0.10 | 0.00 | 0.05 | 0.15 | |
| 33 | Reserving Capacity for TCC Balance-of-Period (BOP) Auctions | TCC | Prioritize | Software Design | Functional Requirements | 0.25 | 0.00 | 0.00 | 0.25 | |
| 34 | Storage as Transmission - Requested by NYSERDA | New Resource | Prioritize | Market Design Concept Proposed | | 0.29 | 0.00 | 0.55 | 0.84 | |



| Item | Project | Product Area | Project Type | 2022 Proposed Deliverable | 2021 Deliverable | Labor | Capital | Prof. Serv. | Total | | | |
|------|---|--------------------|-----------------|---|-----------------------------------|-------|---------|----------------|-------|--|--|--|
| 35 | Time Differentiated TCCs – Requested by Calpine and Vitol | TCC | Prioritize | Market Design Complete | Market Design Concept Proposed | 0.17 | 0.00 | 0.20 | 0.37 | | | |
| 36 | Transmission Security in the ICAP Market | Capacity Market | Prioritize | Market Design Concept Proposed Deployment | | 0.25 | 0.00 | 0.13 | 0.38 | | | |



Estimated Cost (in millions)

Future 2022 Market Projects

| ltem | Project | Product Area | Project Type | 2022 Proposed Deliverable | 2021 Deliverable | Labor | Capital | Prof. Serv. | Total |
|------|--|--------------------|-----------------|---------------------------|---------------------|-------|---------|----------------|-------|
| 37 | Capacity Transfer Rights for Internal Transmission Upgrades (SOM) | Capacity Market | Future | | | | | | |
| 38 | Carbon Pricing | Energy Market | Future | | Software Design | | | | |
| 39 | Enhanced PAR Modeling (SOM) | Energy Market | Future | | | | | | |
| 40 | Long Island PAR Optimization and Financial Rights (SOM) | Energy Market | Future | | | | | | |
| 41 | Review of Real-Time Market Structure (SOM) | Energy Market | Future | | | | | | |



Estimated Cost (in millions)

Next Steps



Next Steps

- Deadline for completing scoring survey will be June 25th
- Contact Brian Hurysz or Member Relations for any survey related issues
 - Send to Brian Hurysz at <u>bhurysz@nyiso.com</u> or cell (518) 461-6405 for assistance
- Scoring results will be presented at the July 13th BPWG



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?

