**Project Summary:** The FICS demonstration project aims to test a new model for interconnection of DERs to the utilities’ distribution systems. The new model uses Active Network Management to interconnect DERs to the grid using “flexible” capacity instead of using conventional firm capacity reinforcement. The flexible capacity model aims to reduce DER interconnection costs and aid economic viability. The companies are currently pursuing two ANM schemes in the NYSEG and RG&E service territories.

**Lessons learned:**

- **The Customer**
  - It can take a developer years to complete construction, testing, commissioning of a project site after being approved for interconnection

- **The Market**
  - Developers are very willing to reduce the interconnection costs of a project in exchange for minimal projected curtailment

- **Utility Operations**
  - Addressing flicker limitation with FICS will require additional analysis and testing but it has the potential to increase DER capacity even further
  - Changes in interconnection queues require revised analyses and cost estimates
  - Lessons learned from the NYSERDA PON 3397 proposal have the potential to greatly increase the efficiency of processing and analyzing DER interconnection requests, including ANM analysis
  - Plan to operate two FICS demo sites for one year each in order to get operational experience and use that to inform potential scalability plans

**Application of lessons learned:** NYSEG and RG&E plans to pursue integration of FICS solutions into its business-as-usual interconnection process following the completion of this demo project.

**Explanation for over budget:** This project has exceeded its originally forecasted budget due to the significant delays in permitting with DER #1 and the cancellation of other DERs that we have pursued as FICS candidates. These delays and cancellations have led to increased expenditures on external services for managing the project and identifying additional FICS sites.

**Issues Identified:** DER #1 was on hold for 1 year and 9 months pending a grasslands bird study. Since being removed from hold in April 2018, the project has been delayed again by the developer until Q3 2019.

Communications from the developer for DER #2 were intermittent and the project was removed from the interconnection queue in December 2017 due to inactivity due to lack of response from the developer.

DER #3 was identified as a FICS candidate and development of an ANM solution was almost complete when the developer notified us that the landowner had passed away without providing land-rights and therefore the DER project would not be able to progress

NYSEG’s Operations team is unfamiliar with the deployment of standalone primary line voltage sensors and standards must be established before the line voltage sensors can be installed in the field
Solutions Identified: NYSEG and RG&E has ensured that all of the appropriate equipment and plans are in place to execute all the necessary interconnection work for the DER #1 ANM solution as soon as the developer has completed the requisite steps of site construction.

In order to address the loss of DER #2 and 3, the FICS team revisited the interconnection queue at both companies and identified DER #5-7 as a potential FICS candidate. The three projects are scheduled for mechanical completion at the end of Q3 2020. The FICS team is currently working with the developer for DER #5-7 to complete the design of the ANM solution for these sites.

Recent Milestones/Targets Met:
None

Upcoming Milestones/Targets:

- Q4 2019 – Complete construction, testing, and commissioning of the ANM solution for DER #1
- Q4 2019 – Begin operation and data collection for the ANM solution for DER #1
- Q4 2019 – DER #1 ANM Site Acceptance Testing
- Q3 2020 – Developer DER #5-7 Mechanical Completion
- Q3 2020 – DER #5-7 Site Acceptance Testing
- Q4 2019 – Q1 2021 - Gather appropriate data /lessons learned to inform potential scalability.
Reforming the Energy Vision
Demonstration Project Q3 2019 Report

Flexible Interconnect Capacity Solution
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1.0 Executive Summary

New York State Electric & Gas Corporation (NYSEG) and Rochester Gas and Electric Corporation (RG&E) (and together, the Companies) submits this quarterly report on the progress of the Flexible Interconnect Capacity Solutions (FICS) demonstration project. The FICS demonstration project tests a new model for interconnecting Distributed Energy Resources (DERs) to the distribution grid using Active Network Management (ANM) rather than firm capacity. ANM technology allows the utility to manage DER within grid constraints (e.g., voltage, overloads, etc.) using real-time sensing and controls, avoiding more expensive upgrades. This model provides the potential to save on interconnection costs with minimal curtailment on DER, aiding economic viability. In addition, ANM provides the potential for greater penetration of DER.

Two proposed ANM schemes in the NYSEG and RG&E service territory have been targeted as the demonstration sites for the initial FICS scope. Using ANM, a portion of the interconnection costs for each DER will be deferred by managing network constraints identified in NYSEG’s interconnection analysis. The DERs include one (1) 2 MW and three (3) 5 MW solar photovoltaic (PV) farms.

During Q3 2019, NYSEG continued working with the developer for DER #1 and the ANM solution vendor to finalize the technical details of the FICS ANM solution for DER#1. DER #1 is currently on track to come online with its FICS solution in Q4 2019. Further development of the ANM solution for DER #5-7 has been put on hold while the FICS team focuses on the interconnection of DER #1.

Plans for Q4 2109 include:

- Complete construction, testing, and commissioning of the ANM solution for DER #1
- Begin operation and data collection for the ANM solution for DER #1

The following report provides a progress update on the tasks, milestones, checkpoints, and lessons learned to date.
2.0 Demonstration Highlights since the Previous Quarter

2.1 Activity Overview

2.1.1 FICS DER #1
On June 28, 2016, this 2 MW PV developer executed a FICS agreement with NYSEG. On July 21, 2016, NYSEG was informed that the 2 MW PV farm project was on hold pending a grasslands bird study. As the agreement has been executed for this project, NYSEG continued to progress the project factory acceptance test (FAT) and a modified site acceptance test (SAT) in preparation for resumed field activities. The grassland bird study was complete and the developer removed the hold from the project in April 2018.

NYSEG completed installation of much of the substation equipment for DER #1 in November 2017. The communications tower at the substation for DER #1 was installed as of Q3 2018. In June 2019, NYSEG and its ANM solution vendor, Smarter Grid Solutions (SGS), re-initiated discussions with the developer for DER #1 in order to coordinate the requirements of the ANM solution with the design and construction of the PV farm. These discussions have continued through Q3 and into Q4 2019. The ANM part of the project has experienced some delays due to outstanding questions about the solution’s design. One of these questions was regarding utilizing the utility PCC recloser instead of the customer’s breaker for the trip and reclose functionality needed by the ANM Element. Another one of these questions pertains to the architecture and ownership of the telecommunications solution needed for the ANM Element deployed at the PV site to communicate with the ANM Strata located at NYSEG’s Vestal ECC. As of this filing, both of these questions are still outstanding as NYSEG works with its internal parties to provide answers so that the ANM Solution design can be finalized. On October 11th, 2019, NYSEG received notice from the developer that they had completed their construction and would soon submit their letter of completion and electrical inspection. AVANGRID plans to install, test, and commission the ANM solution for DER #1 in Q4 2019.

2.1.2 FICS DER #2
On June 29, 2016, NYSEG issued a proposed FICS agreement for a 450 kW farm waste generator. AVANGRID offered three options to interconnect the generator:

1. Do not participate in FICS and upgrade the Aurora substation transformer bank;
2. Participate in FICS, with the generator managed by ANM to address the thermal capacity constraint at the Aurora substation transformer bank. Install new distribution line regulation to prevent high-voltage conditions; or
3. Participate in FICS, with the generator managed by ANM to address the thermal and voltage constraints.
On September 12, 2016, the developer for DER #2 stated that the go-forward decision on this project was on hold pending the interpretation of the $5k maximum interconnection fee for farm waste generators as described on Page 49 of the New York State Standardized Interconnection Requirements and Application Process For New Distributed Generators 5 MW or Less Connected in Parallel with Utility Distribution Systems. As the customer had not executed the agreement on this project, NYSEG deferred construction, configuration, and testing the ANM platform for this project pending execution of the FICS agreement.

On January 24, the developer for DER #2 resumed interconnection discussions with NYSEG. On June 2, NYSEG provided an updated analysis and cost estimate to address the changes in the interconnection queue and projects subsequently placed into service. On December 1st, 2017, the developer again resumed interconnection discussions and was informed that the project had been removed from the interconnection queue due to failure to meet PSC mandated time constraints. The developer will have to reapply for interconnection if still interested in moving forward with the project. The developer expressed a desire to reapply, but NYSEG has yet to receive an interconnection request for the project.

2.1.3 Screening for Additional Projects

On October 26, 2015, NYSEG executed a change order with Smarter Grid Solutions (SGS) to provide expertise in screening and planning of DER projects for flexible interconnection. Priorities during this activity include:

- Evaluate and prioritize additional potential FICS DER projects;
- Develop a strategy for a long-term FICS process;
- Create a strategy for long-term FICS process automation;
- Document and disseminate flexible interconnection screening techniques and strategies to help with the DER interconnection demand, including presentations and workshops as necessary; and
- Utilize findings for a possible NYSERDA funding proposal.

In January, 2016, screening and analysis for additional FICS candidate projects was completed from an updated interconnection queue. A number of potential projects were discussed with developers and two projects were identified for further evaluation.

- DER#3: A 1.7 MW PV installation in Peruville was identified and the developer was interested in a flexible interconnection option. The ANM analysis and cost estimate were nearing completion when the developer notified us that the landowner had died without providing land rights. Since the project is deferred indefinitely, development of the FICS project has stopped.
- DER #4: a 2 MW PV installation in Richfield was also identified and the developer showed interest in a flexible interconnection option. As this installation is flicker limited, it is a new use case requiring a faster control response. Further analysis and testing will be required to prove the solution will provide the requisite power quality. Once proved, this solution has the potential to allow even further penetration of DER on the power grid than otherwise.
• DERs #8 and 9: During Q3 2019, the NYSEG and RG&E FICS team was approached by two DER developers, each with a 5 MW PV site, wishing to explore the possibility of utilizing a FICS solution to address constraints identified in their respective CESIRs. NYSEG and RG&E worked with SGS to determine that both sites showed potential to be addressed by FICS and is working with both developers as well as the NYSEG and RG&E Distribution Planning and Interconnection teams to further explore and develop the FICS solutions for both sites.

Subsequently, additional projects have been screened.

• Yawger Substation: Two potential projects driven by a remote voltage issue on Yawger Substation were reviewed between SGS and Avangrid in August 2017. FICS development on these projects was stopped in December 2017 when it was learned that all the projects on Yawger Substation had progressed with a standard interconnection process.

2.1.4 DER #5, 6, and 7
On April 3, 2018, we re-initiated internal discussions at NYSEG and RG&E of potential additional sites for the project. These internal discussions led the team to one substation (Station 113) at RG&E with three projects (each a 5 MW PV installation) in its queue as a potential FICS candidate. The three potential projects (DERs #5, 6, and 7 respectively from lowest to highest based on their project number in the interconnection queue) were identified due to requiring costly static capacity reinforcements at the Station 113 for interconnection. After identification, the project was passed to SGS to begin review of the projects for ANM solution feasibility. SGS began the review process in July 2018. By the end of July 2018 SGS confirmed the three projects suitability for a FICS solution. In September 2018 RG&E began working with SGS and its internal interconnections, telecommunications, and projects groups to develop cost estimates for an ANM solution to defer the substation upgrades required in the original CESIRs. In order to eliminate the perceived potential for damage to the distribution transformer, RG&E determined that the DER sites required either a financial or a technical backstop to the FICS solution for the purposes of this demo project. RG&E held discussions with SGS and the developer on December 6th, 2018 to clarify this requirement. During the meeting the developer indicated that they would design a protection scheme to meet this requirement and submit the design to RG&E for approval. RG&E and the developer came to an agreement on a technical backstop to the FICS solution in Q1 2019. RG&E is currently working with the developer to further develop the FICS solution and agreement for these three DER sites. As of April 16th, 2019 the three projects are scheduled for mechanical completion at the end of Q3 2020.

2.1.5 Integrated Solution Proposal
NYSEG/AVANGRID is participating in a NYSERDA PON3397 proposal to integrate interconnection functionality between Smarter Grid Solutions, Clean Power Research, and CYME.

At the conclusion of the FICS project, we hope to integrate interconnection planning and analysis with FICS as a business-as-usual process. AVANGRID, CYME, Clean Power Research and SGS held a CYME process meeting on September 25th, 2017. The parties held another meeting on December 20th, 2018 to
review the changes to the interconnection application process flow in this proof-of-concept. AVANGRID, CYME, Clean Power Research, and SGS held another meeting on March 2\textsuperscript{nd}, 2018 to demonstrate the PoC solution to AVANGRID’s Interconnections and Distribution System Planners. On May 25\textsuperscript{th}, 2018 SGS provided a narrative video describing the IOAP integration tool to AVANGRID and on June 18\textsuperscript{th}, 2018 a meeting was held with members of AVANGRID’s Interconnection and Distribution System Planning teams to review the demo video and discuss future plans and improvements to the interconnection process. The meeting yielded many fruitful discussions that will be used to drive the future plans for AVANGRID’s interconnection portal and SIR review process.

2.1.6 FICS + Energy Storage

NYSEG/AVANGRID worked with Smarter Grid Solutions to evaluate an Energy Storage System in the NYSEG Aurora Substation that would have eliminated the need for voltage regulators for DER #2. The energy storage system would have been used to reduce the amount of curtailment of the DERs at this location. SGS presented their analysis on November 13\textsuperscript{th}, 2017. NYSEG/AVANGRID decided not to pursue the project due to the costs. The combined project would have required a 350 kW/1 MWh battery with a 1 MVA inverter. The analysis did show that a battery would have increased the hosting capacity of the circuits involved.

2.2 Metrics and Checkpoints

Table 1: Checkpoints

<table>
<thead>
<tr>
<th>Check Point</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selection of the FICS Option</td>
<td>Measure: The number and percentage of FICS-qualified projects that elect the FICS option expressed as both the number of projects and MWs. When: Execution of interconnection contracts with participating developers is targeted for Q2 2016, therefore progress updates will be provided in the Q4 2015 and Q1 2016 reports. How: FICS qualification is based on preliminary screening of DER interconnection applications, where ANM can enable incremental DER generation capacity that would otherwise require network reinforcement to accommodate the full proposed capacity. Expected Target: At least two DER developers in the NYSEG and/or RG&amp;E territory will elect the FICS option during the demonstration term. Strategy if Results are Below Expectation: If less than two developers provide a show of interest in the FICS option during initial outreach to be conducted in Q4 2015, AVANGRID will review options for next steps in site selection with Staff. Results: FICS DER #1 has elected the FICS option and FICS DER #2 has not proceeded. Pursuing FICS option with DER #5-7</td>
</tr>
<tr>
<td>Interconnection Cost</td>
<td>Measure: The total utility infrastructure cost per MW interconnected and the</td>
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</table>
avoided cost of network reinforcement that would otherwise be required. The original project metric proposed included Interconnection Timeframe, but comparing the interconnection period during the demonstration term to that of a firm interconnection may be misleading since the timeline to deliver the ANM system does not accurately represent the timing of deploying ANM at additional DERs following the demonstration term.

When: ANM system go live is targeted for Q4 2016, therefore a review of the final interconnection cost for participating sites will be included in the Q4 2016 report.

How: The total cost per MW interconnected will be available following completion of the interconnection. The avoided cost of network reinforcement will be determined in the CESIR process based on an estimate developed by AVANGRID.

Expected Target: ANM projects in the U.K. have reduced interconnection costs by up to 90 percent. Interconnection costs for current and historical DER projects governed by the New York Standardized Interconnection Requirements vary by location depending on a number of factors, including size of the project, existing network topology, and required network reinforcement. Therefore, it is challenging to project expected cost avoided through FICS at this time. AVANGRID will propose reasonable comparative assumptions for Staff review.

Strategy if Results are Below Expectation: Developers will likely not participate in FICS unless there is a cost savings in completing their interconnection. Avangrid will identify scenarios/opportunities where FICS could provide a more economical solution.

Results: FICS DER #1 results in an estimated deferral of 57% of the interconnection costs. FICS DER #2 results in an estimated 98% reduction in interconnection costs compared to an interconnection for firm capacity. FICS estimates are still in development for DER #5-7, but AVANGRID expects a 70-80% deferral of interconnection costs.
site. The average DER project curtailment has been approximately five percent annually in the U.K.

Strategy if Results are Below Expectation: If actual curtailment in Q4 2016 exceeds the forecasted level on an annualized basis, AVANGRID and Smarter Grid Solutions will reexamine modeling results to refine the curtailment forecast.

Results: FICS DER #1 is a 2 MW rated photovoltaic generator. FICS DER #2 is a 450 kW farm waste generator. DER #5-7 are each 5 MW rated photovoltaic generators for a total of 15 MW. These sites are not yet operational.

<table>
<thead>
<tr>
<th>Total FICS Utility Revenue</th>
<th>Measure: Utility revenues from platform-as-a-service fees in the aggregate and on a per-MW basis for participating projects.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>When: Execution of FICS-based interconnection contracts with participating developers is targeted for Q2 2016, therefore progress updates will be provided in the Q4 2015 and Q1 2016 reports.</td>
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<tr>
<td></td>
<td>How: Platform-as-a-service fee included in interconnection contracts executed with participating developers, which may be based on a shared risk structure.</td>
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<tr>
<td></td>
<td>Expected Target: The area of commercial development for the platform-as-a-service business model is a primary focus for testing. AVANGRID is aiming to obtain robust lessons learned on effective development of revenue opportunities from FICS. In the July 1 FICS proposal filing, AVANGRID examined various fee options that would cover the revenue requirements of adopting FICS capabilities, with analysis indicating that an annual fee charged to each DER would cover the revenue requirements of ANM at scale with DERs contracted.</td>
</tr>
<tr>
<td></td>
<td>Strategy if Results are Below Expectation: Capture robust lessons learned on developing revenue opportunities from FICS should be the primary indicator of successful testing for the project. Avangrid will identify barriers preventing revenue generation and assess potential alternative revenue models.</td>
</tr>
<tr>
<td></td>
<td>Results: The FICS DER #1 contract did not include platform service fees, but used a cost deferral calculation instead. The draft FICS DER #2 agreement options include a platform fee of $23,000 or $12,000, depending upon the option chosen.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Customer Satisfaction</th>
<th>Measure: Key drivers and obstacles of FICS adoption among targeted DER developers.</th>
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<tbody>
<tr>
<td></td>
<td>Timeline: Execution of FICS-based interconnection contracts with participating developers is targeted for Q2 2016, therefore surveying results of targeted developers that decided not to go forward with FICS will be presented in the Q2 2016 report and surveying results of participating projects will be presented in the Q4 2016 report.</td>
</tr>
<tr>
<td></td>
<td>How: Post-interconnection survey of all targeted developers, including those that decided not to go forward.</td>
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<tr>
<td></td>
<td>Expected Target: AVANGRID is aiming to obtain robust lessons learned from...</td>
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</table>
non-participating developers to inform future FICS site selection and outreach efforts and to gather lessons learned from participating developers to inform how ongoing ANM operations can meet developers’ needs.

Strategy if Results are Below Expectation: AVANGRID will evaluate how to improve engagement efforts to increase future participation in FICS and meet participating developers’ needs.

Results: Section 4.0 of this report discusses observations from discussions with targeted developers.

<table>
<thead>
<tr>
<th>External Engagement</th>
<th>Measure: Lessons learned and opportunities for scaling FICS based on feedback from external, non-developer stakeholders with a role in DER development and interconnection in New York.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Timeline: AVANGRID will provide updates in each quarterly report on engagement outcomes with the Joint Utilities, NYSERDA, etc.</td>
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<tr>
<td></td>
<td>How: Description of stakeholder engagement lessons learned.</td>
</tr>
<tr>
<td></td>
<td>Expected Target: AVANGRID will engage NYSERDA with the aim to gauge the statewide baseline interconnection record for funded DERs, to effectively develop the platform-as-a-service business model, and identify opportunities for other ANM applications to increase DER interconnections in New York. AVANGRID will engage the Joint Utilities to review current interconnection challenges and alternative interconnection solutions being developed in New York.</td>
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<tr>
<td></td>
<td>Strategy if Results are Below Expectation: AVANGRID will utilize NYSEG and RG&amp;E interconnection records as its base data set for reviewing and comparing interconnection outcomes and challenges.</td>
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<td></td>
<td>Results: We continue to gain insights from the FICS demonstration project and we are investigating tools and options to facilitate FICS as a business-as-usual process. We are evaluating Clean Power Research’s PowerClerk too for interconnection administration and we were a partner to a NYSERDA PON proposal to integrate FICS, PowerClerk, and CYME.</td>
</tr>
</tbody>
</table>

2.3 Issues

Over the course of this project we have experienced a number of wide ranging issues that have delayed the project considerably. An abbreviated list of some of the issues we encountered can be seen below.

- Changes in the queue require re-doing the FICS analysis and cost estimates.
- Flicker management is a new use case for FICS and requires additional analysis and testing to prove its effectiveness.
- Extended project delays leading to DER project cancellations and removal from the interconnection queue
- Identifying FICS candidates in current interconnection review process
3.0 Work Plan

3.1 Budget Review

Through Q3 2019, project spend is above the projections included in the FICS implementation plan. Much of this is due to timing with the delay and cancellation of many of the targeted projects leading to increased operational costs from additional site identification and as described above. Current projections show the overall project to be over budget. With incremental screenings for additional projects and potential scope expansions associated with NYSERDA PON proposals, the FICS project budget may require supplementing.

3.2 Updated Work Plan

<table>
<thead>
<tr>
<th>Activity</th>
<th>Q3 2019</th>
<th>Q4 2019</th>
<th>Q1 2020</th>
<th>Q2 2020</th>
<th>Q3 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Acceptance Test (DER #1)</td>
<td></td>
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<tr>
<td>Construction (DER #1)</td>
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</tr>
<tr>
<td>Construction (DER #5-7)</td>
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</table>

- Establishing standards for the installation of standalone primary line voltage sensors
3.3 Next Planned Activities

In Q4 2019, the project team aims to complete the following tasks:

- Complete construction, testing, and commissioning of the ANM solution for DER #1
- Begin operation and data collection for the ANM solution for DER #1

4.0 Conclusion / Lessons Learned

So far, the Flexible Interconnect Capacity Solution Project has taught AVANGRID a lot about the potential for deploying ANM solutions as a business-as-usual part of our interconnection process. ANM has already been used elsewhere to defer expensive capacity upgrades and provide a more cost-effective interconnection solution to customers. Based on its experience so far in this Demonstration Project, AVANGRID believes that ANM has the potential to bring the same value to customers in New York State. While unforeseen factors have delayed the implementation of our first FICS site, the developer reaction to a FICS solution has been warm as demonstrated by the continued interest in FICS from DER developers in NY State. AVANGRID believes that this is an indicator that FICS solutions would be attractive to developers if they were included as a business-as-usual part of our interconnection process. While developers have generally been eager to avoid static capacity reinforcement costs in exchange for a small amount of projected curtailment a year, we have not been able to verify SGS’s curtailment predictions with real-world performance data. To this end, we believe that it is important to continue with this demonstration project until we have had a chance to install and operate an ANM system for at least a year. This will allow us to gather all the appropriate data and lessons learned before we officially end the project.

4.1 Lessons Learned

Addressing flicker limitations with FICS will require additional analysis and testing, but it has the potential to increase DER capacity even further.

Changes in interconnection queues require revised analyses and cost estimates.

Lessons learned from the NYSERDA PON 3397 proposal have the potential to greatly increase the efficiency of processing and analyzing DER interconnection requests, including ANM analysis.
Combining Energy Storage with ANM technology has the potential to increase the hosting capacity of the circuit and allow for the interconnection of additional DERs, but energy storage is still a very costly solution and how that cost would be allocated to the DER projects is still unclear.

NYSEG and RG&E have little experience with actively controlling DER and therefore additional work must be done to develop policies and procedures when dealing with FICS sites for Operations personnel to follow to maintain situational awareness of the actions of the SGS ANM system at all times.