

# Agenda

	Stakeholder Conference Agenda Topics	Presenters
9:15 – 10:00	Registration	--
10:00 – 10:10	Welcome	Matt Ketschke, Con Edison
10:10 – 11:00	<b>DSP Implementation as of June 2018</b> <b>DER Integration</b> <ul style="list-style-type: none"> <li>DPS Staff: Tammy Mitchell</li> </ul>	<ul style="list-style-type: none"> <li>NYSEG/RG&amp;E: Dave Conroy</li> <li>Con Edison: Tom Mimmagh</li> <li>AEE: Ryan Katofsky</li> <li>Opus One Solutions: Dave MacRae</li> </ul>
11:00 – 11:10	Break	
11:10 – 12:00	<b>DSP Implementation as of June 2018</b> <b>Market Services &amp; Information Sharing</b> <ul style="list-style-type: none"> <li>DPS Staff: Andy Owens</li> </ul>	<ul style="list-style-type: none"> <li>National Grid: Rob Sheridan</li> <li>O&amp;R: Kristen Barone</li> <li>Central Hudson: John Borchert</li> <li>Demand Energy: Jeff Cook-Coyle</li> <li>NRG: Kelli Joseph</li> </ul>
12:00 – 1:00	Lunch (provided)	--
1:00 – 2:00	<b>Value of DER Proceeding</b> <ul style="list-style-type: none"> <li>DPS Staff: Marco Padula &amp; Warren Myers</li> </ul>	<ul style="list-style-type: none"> <li>Con Edison: Steve Wemple</li> <li>O&amp;R: Kristen Barone</li> <li>EDF: Elizabeth Stein</li> <li>NY-BEST: Bill Acker</li> </ul>
2:00 – 2:55	REV Resources	<ul style="list-style-type: none"> <li>REV Connect – Vanessa Ulmer, NYSERDA</li> <li>Value Stack Calculator – Luke Forster, NYSERDA</li> </ul>
2:55 – 3:00	Conference Wrap-up & Adjourn	Damian Sciano, Con Edison



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# Summary of 2017 Engagement Efforts



**JOINT UTILITIES**  
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**Hosted**

**20**

stakeholder sessions

**Nearly**

**200**

total stakeholders

**Representing**

**91**

organizations



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For more information and summary material of 2017 stakeholder efforts, please visit [www.jointutilitiesofny.org](http://www.jointutilitiesofny.org)

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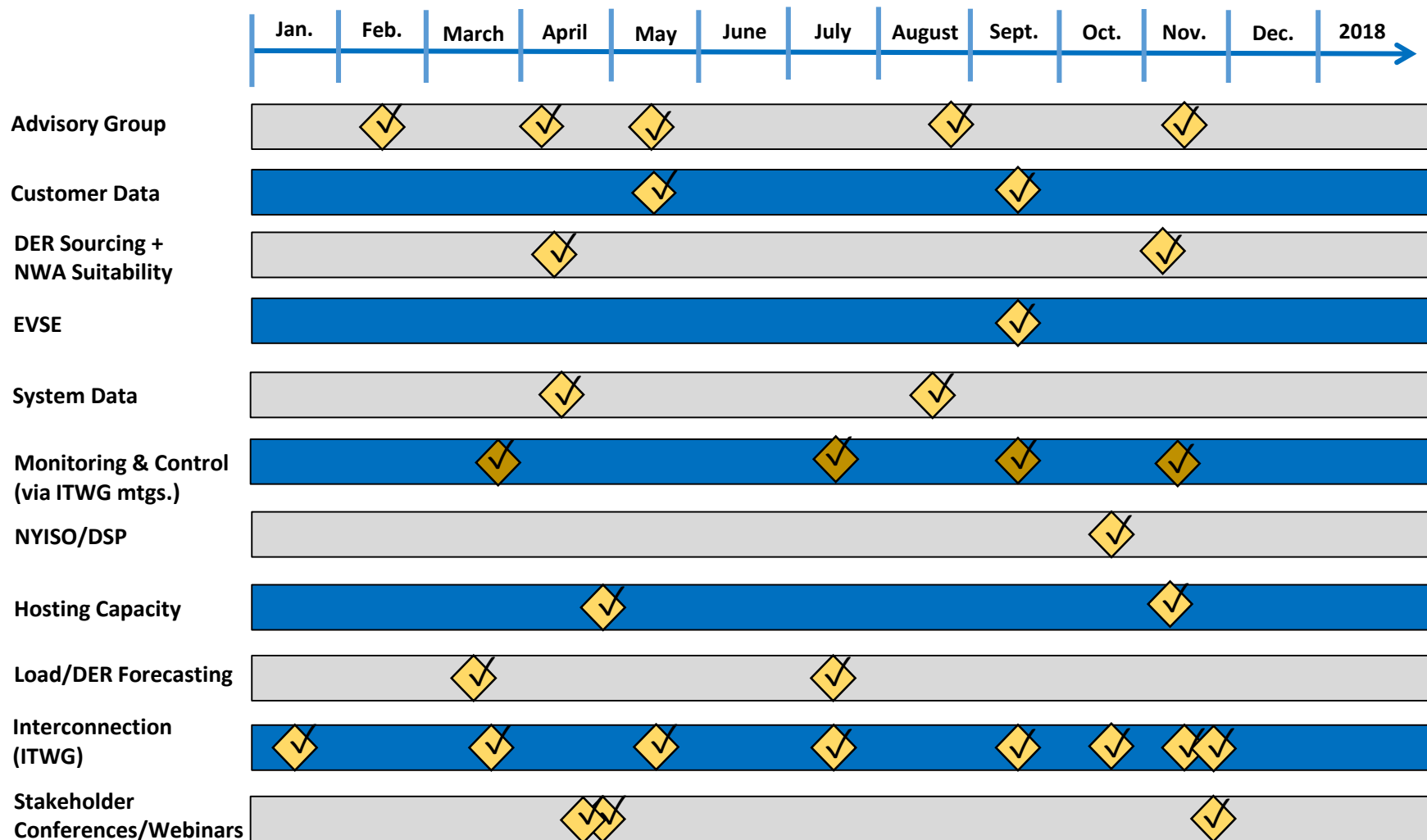
# Thank You for Participating in 2017 Stakeholder Sessions!



For more information and summary material of 2017 stakeholder efforts, please visit [www.jointutilitiesofny.org](http://www.jointutilitiesofny.org)

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# 2017 SDSIP Engagement Plan



Source: Adapted from the Joint Utilities Supplemental Distributed Implementation Plan, November 2016

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# JU System Data Web Portals

Links to the utility-specific websites with available system data can be found on the Joint Utilities of New York Website: [jointutilitiesofny.org/system-data/](http://jointutilitiesofny.org/system-data/)

## Overview of Currently Accessible System Data

### DISTRIBUTED SYSTEM IMPLEMENTATION PLANS

### CAPITAL INVESTMENT PLANS

### PLANNED RESILIENCY / RELIABILITY PROJECTS

### RELIABILITY STATISTICS

### DISTRIBUTION INDICATOR MAPS FOR HOSTING CAPACITY (STAGE 1 INDICATORS)

### BENEFICIAL LOCATIONS

### LOAD FORECASTS

### HISTORICAL LOAD DATA

### NWA OPPORTUNITIES

### QUEUED DG

### INSTALLED DG

### SIR PRE APPLICATION INFORMATION

## Distributed System Implementation Plans

Each utility submitted an Initial Distributed System Implementation Plan (DSIP) on June 30, 2016 under the REV Proceeding. Please click the links below to download PDFs of the utility-specific Initial DSIPs. The Joint Utilities filed a **Supplemental DSIP** on November 1, 2016.



Please click [here](#) to download Central Hudson Gas and Electric's 2016 DSIP.



Please click [here](#) to download Consolidated Edison's 2016 DSIP.



Please click [here](#) to download National Grid's 2016 DSIP.



Please click [here](#) to download NYSEG and RG&E's 2016 DSIP.



Please click [here](#) to download O&R's 2016 DSIP.



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# System Data Business Use Cases

JU co-developed business use cases with developers for additional system data to better understand stakeholder data needs and will continue to engage interested parties through 2018 on use cases including the following:

<b><i>2017 System Data Business Use Cases</i></b>
Interconnection Cost Estimates – Pre-CESIR
Evaluate Development Risks for Potential Projects
Microgrid Location Optimization
Integrated Distribution Planning (LMP+D & LNBA)
JU Consistency for Interconnection Maps
Reliability and Resiliency
Storage (BTM and/or Grid Attached)
Prospecting for Development Opportunities
Estimating Future Market Behavior



# Hosting Capacity Web Portals

Links to the utility-specific hosting capacity web portals can be found on the Joint Utilities of New York website: [jointutilitiesofny.org/hosting-capacity/](http://jointutilitiesofny.org/hosting-capacity/)

Utility Specific  
Hosting Capacity



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### Overview of the Stage 2 Hosting Capacity Displays

The Joint Utilities, with guidance from stakeholders in the 2016 engagement group discussions, have developed a four staged Hosting Capacity implementation roadmap. In response to the **March 9, 2017 DGP Order** and building upon the Stage 1 red zone indicator maps, below are links to the Stage 2 Hosting Capacity displays focused on feeder-level analysis of large scale solar PV systems interconnecting to distribution circuits 12kV and above. Each circuit's hosting capacity is determined by evaluating the potential for power system criteria violations as a result of large PV solar systems interconnecting to three phase distribution lines with an AC nameplate rating greater than or equal to 300 kW interconnecting to three phase distribution lines.

The JU have provided the following recording from their November 2, 2017 stakeholder engagement group presentation materials as an additional reference to help guide users through the Stage 2 hosting capacity displays.

lines with an AC nameplate rating greater than or equal to 300 kW interconnecting to three phase distribution lines.




Central Hudson Gas & Electric's interactive **Solar PV Hosting Capacity** map illustrates the areas/circuits where DERs have a greater likelihood of being easily accommodated on the distribution system.



Hosting Capacity for Con Edison can be found on their **web portal** by signing into a Con Edison account or ARCGG account.



National Grid's stage 2 hosting capacity displays can be found on their **System Data Portal** under the 'Hosting Capacity' tab. The Stage 2 Hosting Capacity maps supersede the previously displayed Red Zone Maps.



NYSEG and RG&E's distribution indicator maps for Hosting Capacity stage 2 hosting capacity displays can be found on their **Distributed Interconnection Guide Map**.



Stage 2 Hosting Capacity for O&R can be found on interactive maps that can be accessed through their **web portal** by signing into an O&R account or ARCGG account.



Substation	Feeder	Feeder Nominal Voltage (kV)	MAX 3-ph HC (MW)	MIN 3-ph HC (MW)	DG Connected (MW)	DG in Queue (MW)	Refresh Date
ALDER CREEK	36_17_70152	13.20	4.80	0.10	0.035	0.043	7/17/2017

Zoom to \*\*\*

Legend

Substations

Hosting Capacity

3 Phase (MW)

- NULL
- Less than 0.30
- 0.30 - 0.49
- 0.50 - 0.99
- 1.00 - 1.49
- 1.50 - 1.99
- 2.00 - 2.99
- 3.00 - 4.99
- Greater than 5.0

1 and 2 Phase

Screenshot of National Grid's system data portal



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# JU Hosting Capacity Utility-Specific Web Portals

A 10 minute video is available on the JU Hosting Capacity webpage that guides users through Stage 2 hosting capacity displays



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# Customer Data

- JU worked with stakeholders and relied on industry best practices to inform its proposal for a **4/50 whole-building data privacy standard**, including user terms and conditions and local ordinance exceptions

## 4/50 Privacy Standard

Whole building aggregated data is deemed sufficiently anonymized when there are  $\geq 4$  accounts and no single account represents  $> 50\%$  of the annual energy use of the building

- Some of the JU began implementation of **Green Button Connect My Data (or a similar platform)**, which allows customers to select DERs to receive their usage data



- JU are working with NYSERDA to build a **Utility Energy Registry web portal** to provide public access to aggregated energy demographic data across New York state
- JU are **co-developing business use cases with stakeholders** to better understand their data needs and will continue to engage interested parties through 2018

[jointutilitiesofny.org/resources/](http://jointutilitiesofny.org/resources/)



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# ITWG, IPWG and Monitoring & Control



## Interconnection Technical Working Group (ITWG)

## Interconnection Policy Working Group (IPWG)

- In support of the ITWG, the JU are developing low-cost M&C solutions that satisfy system safety and reliability requirements while being sensitive to project economics
- Through the ITWG and IPWG, the JU have focused significant effort on inputs to the required NYSSIR changes to be filed by DPS Staff on December 20, 2017
- Interim interconnection requirements produced through the ITWG can be found on the Department of Public Service website [www3.dps.ny.gov/](http://www3.dps.ny.gov/)



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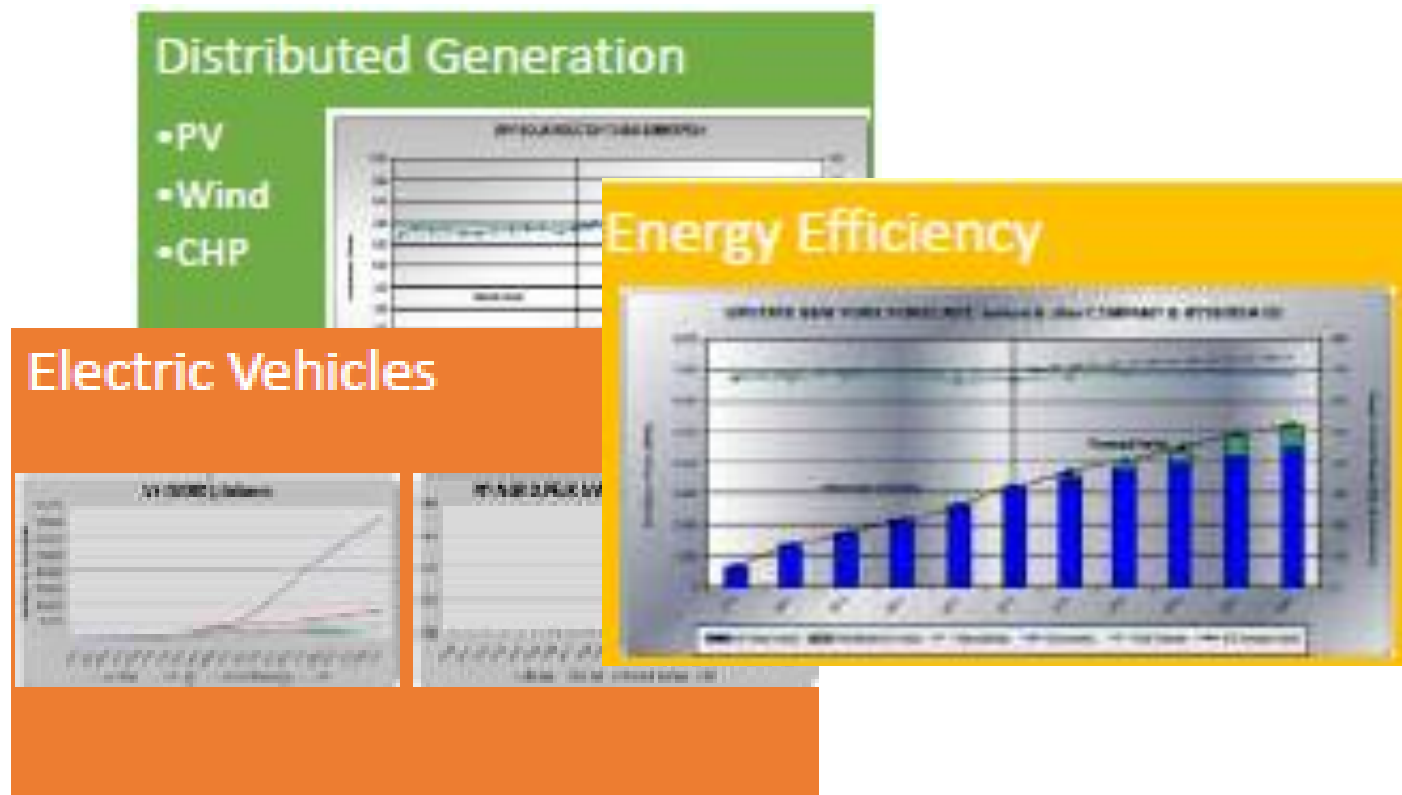
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# Long-Term Load and DER Forecasting

JU are committed to publishing 8760-hourly load forecasts by June 2018, which will provide hourly projected loads at the substation level over a multi-year time horizon



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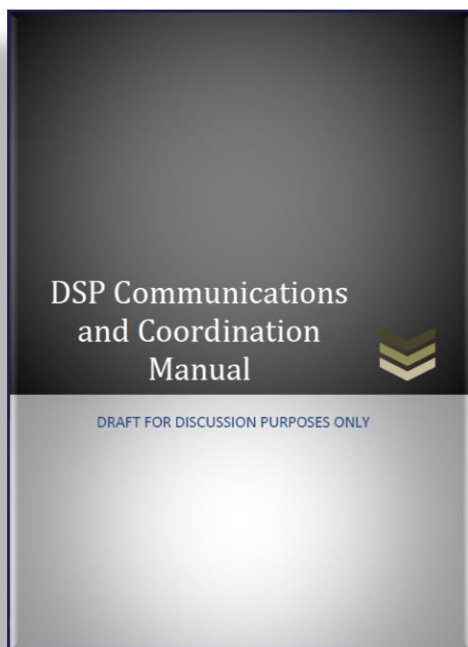
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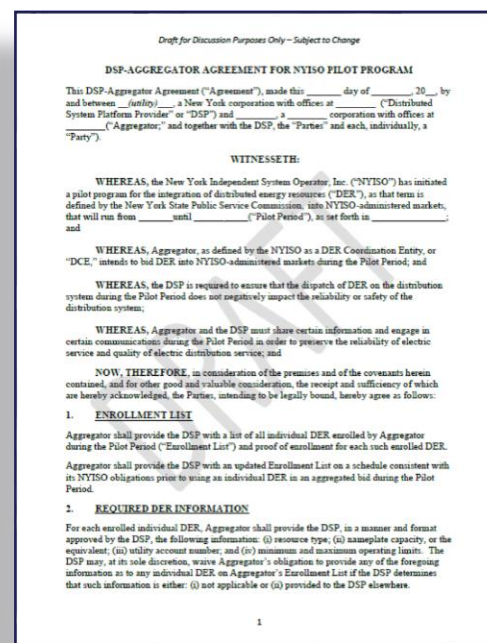
# ISO-DSP Coordination – Additional Resources

The Joint Utilities shared two draft documents with stakeholders to help facilitate discussion during the 10/23 stakeholder session. Both documents are posted on the Joint Utilities of New York website: [jointutilitiesofny.org/resources/](http://jointutilitiesofny.org/resources/)

## Draft DSP Communications and Coordination Manual



## Draft DSP-Aggregator Agreement for NYISO Pilot Program



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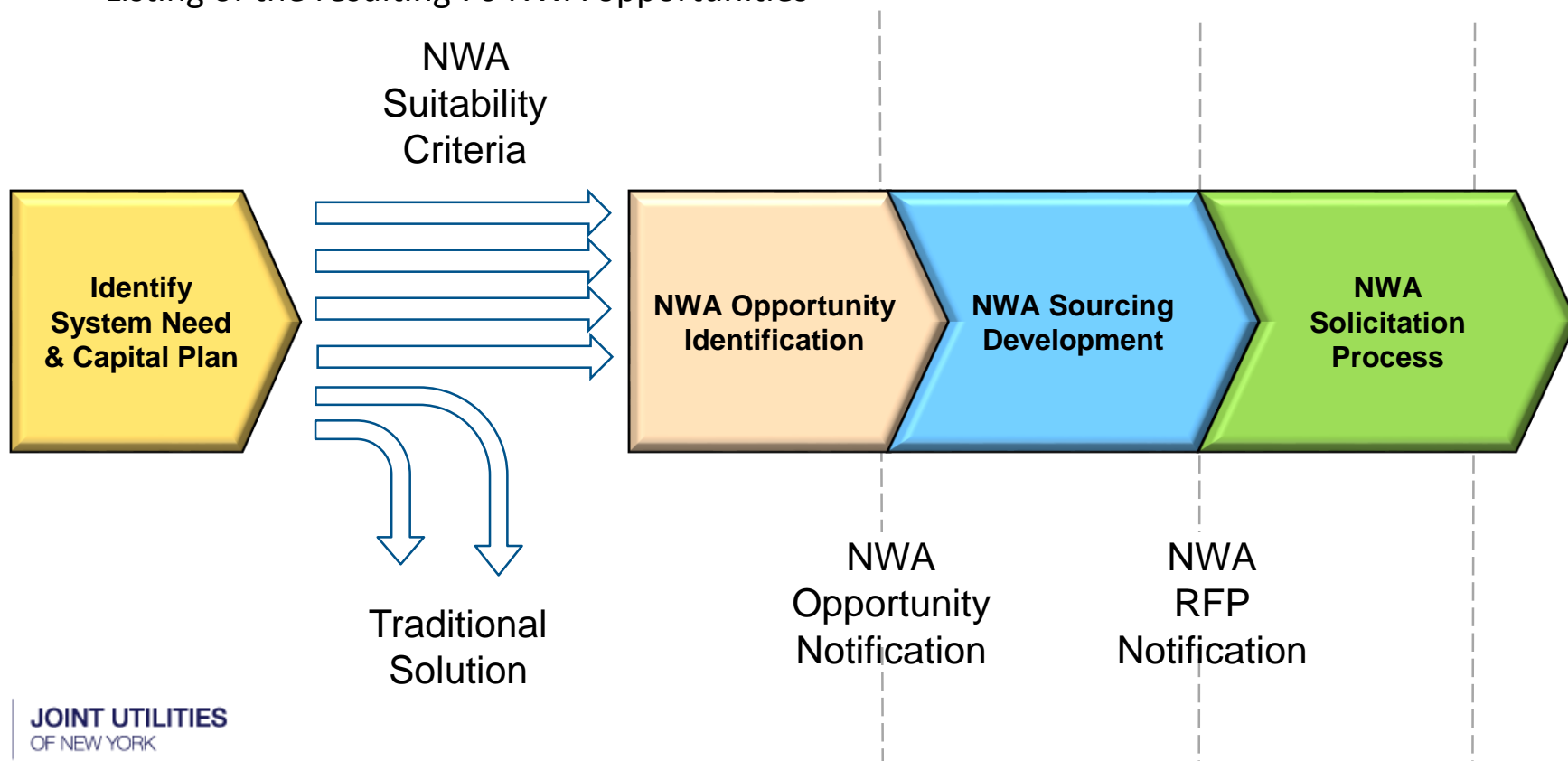
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# Planning Process and Sourcing Overview

JU filed a joint narrative and utility-specific appendices in May describing:

- JU NWA sourcing end-to-end process
- How each utility applies the suitability criteria to their capital planning process
- Listing of the resulting 70 NWA opportunities



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# DER Sourcing NWA Opportunity Directory

Links to the utility-specific web sites with current non-wires solutions opportunities and related solicitations can be found on the JU website: [jointutilitiesofny.org/nwa-opportunities/](http://jointutilitiesofny.org/nwa-opportunities/)

## Utility-Specific Non-Wires Alternatives (NWA) Opportunities and RFPs

### Overview of Utility-Specific NWA Opportunities

The Joint Utilities are working together and with stakeholders to increase availability and transparency of information to support and advance the goals of New York's REV initiative. The listing below presents a brief overview of each utility's current Non-Wires Alternatives (NWA) and provides a link to each utility's website for the latest details about the NWA opportunities and related solicitations. Please visit the [REV Connect portal](#) for similar information as well as information describing other REV opportunities, demonstration projects and developer proposals.



Central Hudson is actively pursuing distributed energy resource (DER) alternatives to traditional utility projects, known as "Non-Wires Alternatives." Through Non-Wires Alternatives, Central Hudson can defer or eliminate the need for transmission & distribution infrastructure upgrades, meeting the dynamic needs of the electric system while reducing future rate pressure.

More information regarding Central Hudson's suitability criteria, NWA opportunities, and the planning and procurement processes is available through Central Hudson's [Non-Wires Alternative Opportunities](#) webpage.



Non-wires alternatives have the potential to reduce customers' electric bills, improve reliability, and defer capital infrastructure. Con Edison has identified several opportunities to create such change.

Please visit Con Edison's [Non-Wires Alternatives](#) webpage to learn more about their current NWA opportunities.



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# Joint Utilities Electric Vehicle (EV) Readiness

JU EV Readiness Framework will be posted to the JU website in Q1 2018

