

Introducing a new open platform for decision support, system design, and project delivery

A Little Background: NY REV

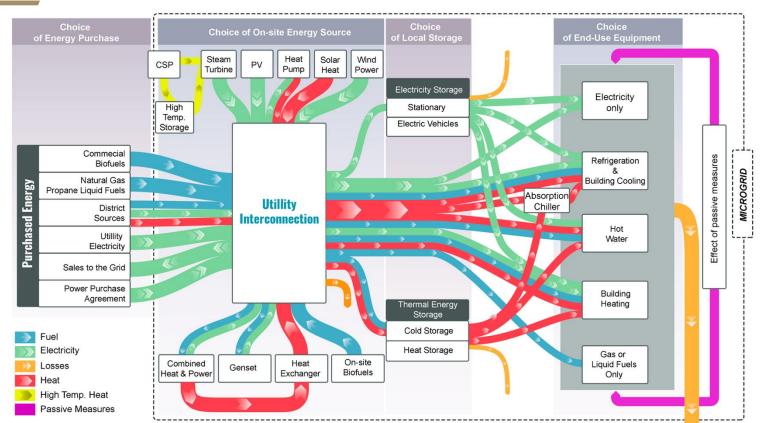




Reforming the Energy Vision

BUILDING A CLEAN, MORE RESILIENT, AND AFFORDABLE ENERGY SYSTEM FOR ALL NEW YORKERS.

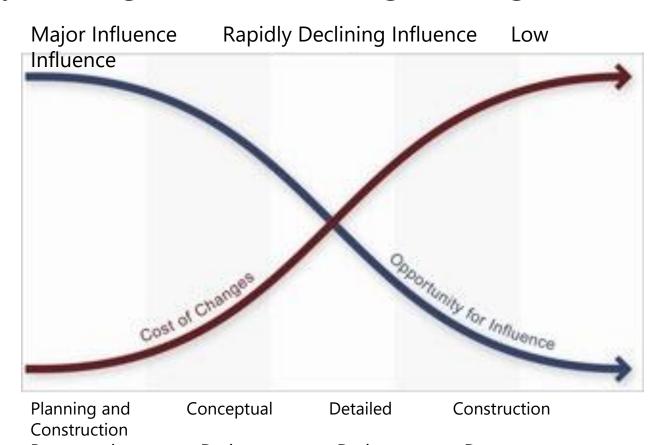
The Quest: Solve Complexity + Connect Participants



The Opportunity: Savings from Value Engineering

The greatest opportunity for cost savings, and for influencing the outcome, is in the planning stage

The greater the savings, the more resilient energy infrastructure will be built, sooner



Step 1. Automated Design Optimization for Engineers

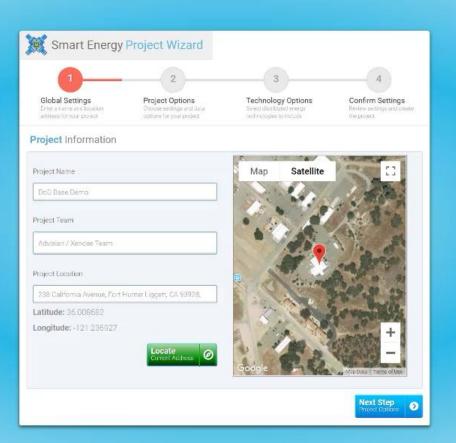
Building Loads CONTROLLER Solar PV Power XENDEE **Battery Storage Wind Power**

Electric Cars

Microgrid Controller

Utility Distribution System

Diesel/Gas Generators



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Step 2. Equipment Specifications & Procurement

Once the design process had been automated, the next step was to make up-to-date equipment pricing and specifications instantly available to the platform

This is being accomplished through integration with Requis, and partnerships with OEMs



MAY 9, 2019

MARKETPLACE, PROCUREMENT

Changing the face and pace of procurement Requis

Step 3. End Users + Finance

Which benefit of microgrid & DER is the most important to you?







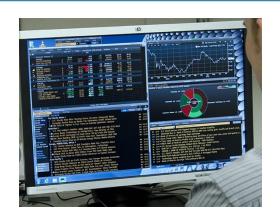
Energy end users input their Load Data & Constraints

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Technical/Engineering View for Project Delivery Companies

Capital Investors

Find Bankable Projects, Provide Financing





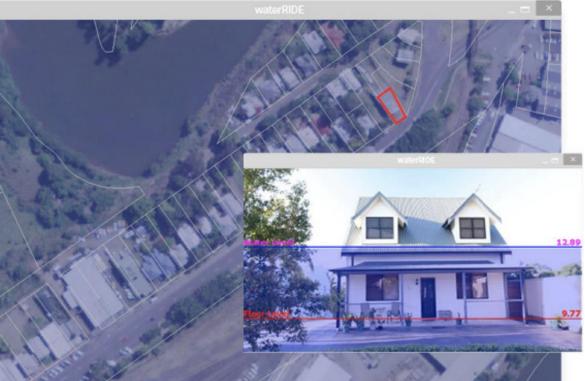


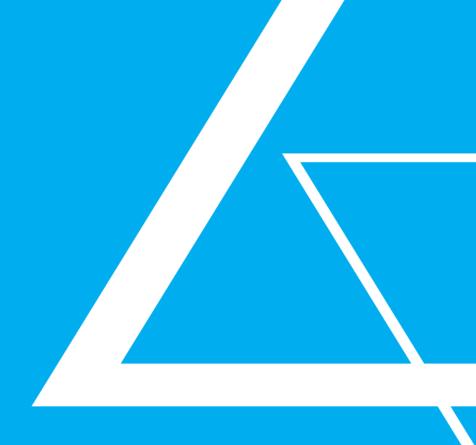


OEMs post their Equipment Data & Costs Sian 19

Future Development: Dynamic Flood Modeling



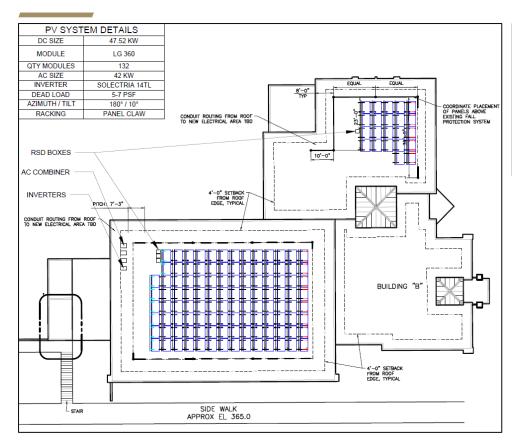


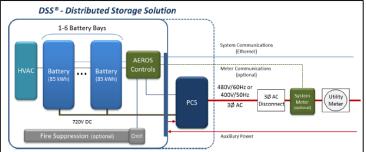




Municipal Campus Resiliency Microgrid

- 3-week islanding capability
- Police, fire, town office, senior citizen housing, and emergency shelter
- Parking lot canopy solar
- Rooftop solar
- Diesel generator
- **Battery Energy Storage System** (BESS)





Miller Community Center Resiliency Microgrid

- 16-hour islanding capability
- Community Center / Shelter
- Rooftop solar
- **Battery Energy Storage System**



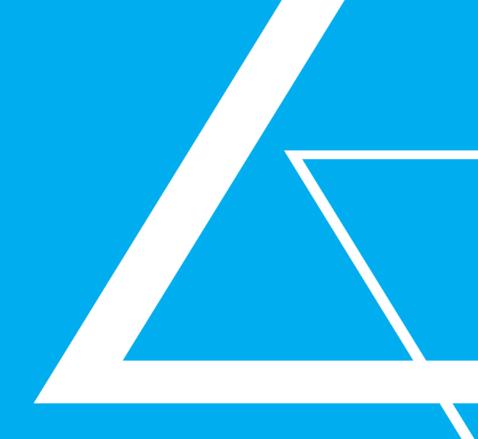
Battery Energy Storage System (BESS)

- 500kW x 1,000kWh
- 35% cost reduction
- Benefits: Resilience, demand charge savings, learnings for the utility

What will our legacy be?

Energy infrastructure is at risk and the transition is not happening fast enough

Fit-to-purpose software can greatly accelerate deployment of DES to improve resilience



Resilient cities start with us connecting better together

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