

# The Good News

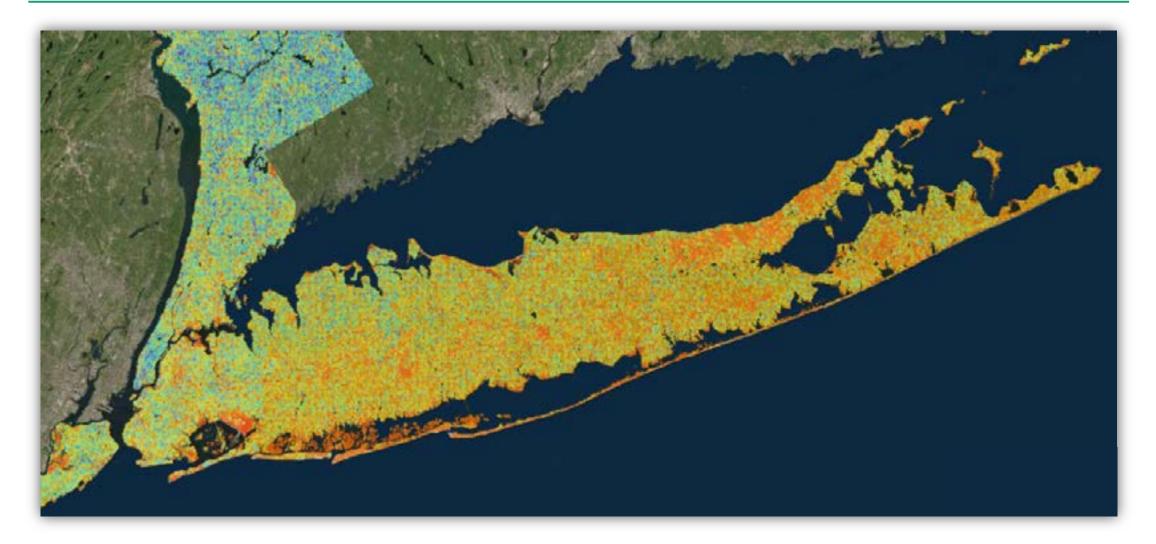
### NYS Renewable Energy Standard

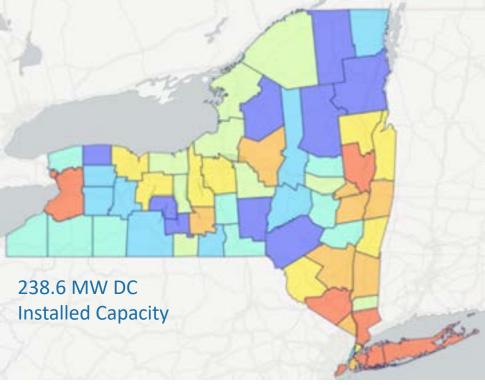
50% x 2030 80% x 2050

94% of NY'ers support using more solar power



# Why Long Island?



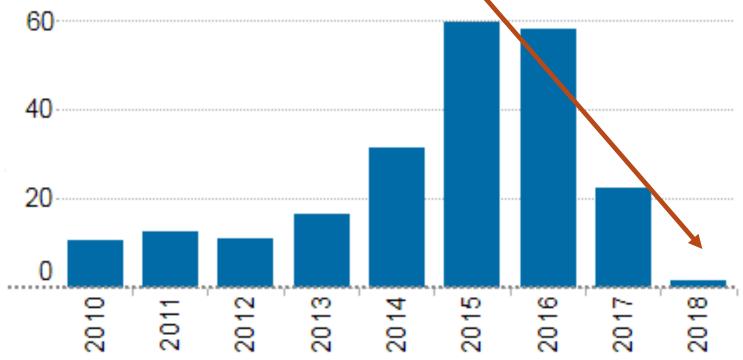


81% of installed capacity is residential rooftop solar

- Successful utility and gov incentives
- Successful marketing



# Solar installations have been slowing Yearly installed solar generation on Long Island 2010-2018 (MW DC)



Solar Electric Programs Reported by NYSERDA

### Siting conflicts are increasing





Advance the pace of solar installations on Long Island by reducing siting conflicts and lowering the barriers to installations in low-impact sites like parking lots, large rooftops, and previously disturbed sites.



### So what's the plan?

- 1. Work collaboratively.
- 2. Apply spatial analysis to identify low-impact sites for

rooftop, parking lot, and ground-mounted solar on disturbed lands

- 3. Use economic analysis to summarize and compare cost of each type
- 4. Use social science research to understand community perceptions of and preferences for solar generation
- 5. Create shared solutions





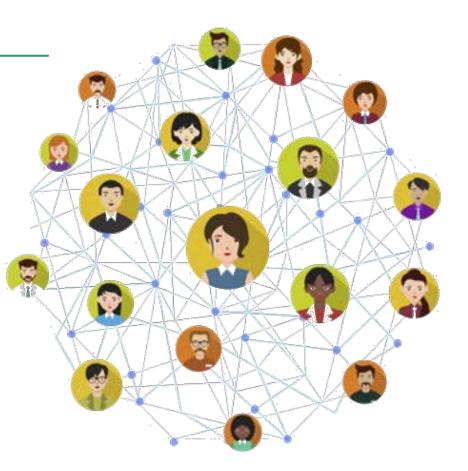
# 1. Work Collaboratively

### The Consortium

- Utility LIPA & PSEG
- Industry LISEIA
- Policy makers state, county, & town
- Local enviro & community orgs
- Academic partners

### Consortium Roles

- 1. Inform goals, process, & deliverables
- 2. Provide subject-matter expertise
- 3. Develop shared recommendations
- 4. Partner to implement recommendations
- 5. Communicate with their peers









# 2. Spatial Analysis

#### For each installation type:

- Define shared siting requirements
- Map suitable sites
- Estimate total max capacity (MW)
- Overlay with current grid capacity

### Why? To help set priorities.

- Where new projects can go online now
- Where grid modifications may be needed
- Which types of generation have the greatest potential in specific geographies

## 3. Economic Analysis

For each type of installation, use regional data to estimate:

- Development costs per MW
- Cost of installing the maximum generation capacity
- Potential returns given the cost of electricity
- Cost breakdown (panels, inverter, other materials, site prep, permitting, etc)

Why?

- Understand which installations are most economically feasible
- Identify targets for potential cost-reducing strategies



### 4. Social Science Research

Collect data to better understand:

- which types Ll'ers are most likely to support in their community
- which messages about solar energy are perceived most positively
- which incentives, tax policies, or business models are preferable
- the spatial relationships of the above community preferences

#### Methods

• Public opinion polling, focus groups, one-on-one interviews

#### Why?

- Informs strategy and policy recommendations
- Enables strategic communication and advocacy tailored to local attitudes



## 5. Create Shared Solutions

- Cohesive set of recommendations for all stakeholders
- Steer solar energy development to low-impact, low-conflict sites through actions by all stakeholder groups
- Create the necessary buy-in for increasing solar development in the lowest impact places
- Work in concert to leverage individual stakeholder actions to achieve greater cumulative success



### Success means

- Recommendations implemented on LI
- Increased pace of large-scale solar installations in low-impact sites
- Minimized impacts of energy on natural areas
- Improved collaboration among stakeholders
- Solutions applied in similar geographies



### Recommendations

- Identify and understand critical barriers
- Go slow to go fast
  - Build support among stakeholders
  - Engage critics
  - Listen to all perspectives
  - Create value for diverse groups
- Be flexible
- Take an interdisciplinary approach
  - Borrow expertise!
- Sustained engagement



### Thank you!

#### **The Nature Conservancy**

Amanda Lefton, Elizabeth Codner-Smith, Stephen Lloyd, Karen Leu, Kevin McDonald, Nels Johnson, Cara Lee

#### **Defenders of Wildlife**

Aimee Delach, Joy Page, Rupak Thapaliya, Mark Salvo

#### **The Doris Duke Charitable Foundation**

# Questions and Suggestions?

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