

# K-Solar

Helping NYS Schools  
Reduce Energy Costs by Going Solar

## K-Solar Overview



**New York Power  
Authority**

Generating more than electricity

# Goals

- Answer five key questions you may have.
  1. Can our district afford to go solar?
  2. Will our district really save money?
  3. Are the buildings in our school district suitable for solar energy?
  4. How long is the contractual process?  
How long is the construction process?
  5. How can NYPA, NYSEERDA and SED assist us in going solar?

# Can our district afford to go solar?

- Solar energy can be procured without a major capital expense by the school district.

## Options:

### 1. Solar PPA (Power Purchase Agreement)

- Solar array on school roof owned by a third party
- District pays for the solar energy on a monthly basis
- Long-term agreement (20 years typical)
- Aggregated purchase through K-Solar Program (NYPA/NYSERDA/SED)

### 2. Financed solar array

- Owned by the school district
- Low interest financing by NYPA (10 years typical)
- Turnkey project management and procurement by NYPA staff

# How Does Third Party Ownership Compare to School Owned?

	School Owned	Third Party
<b>Federal Tax Incentives</b>	No	Yes
<b>State Incentives</b>	NYSERDA and SED	NYSERDA
<b>Financing</b>	Bond or NYPA	Debt/Equity
<b>Cost of Capital</b>	Low	Low – Medium
<b>Operation and Maintenance</b>	School District or O&M Provider	Third party
<b>Owner Solar Experience</b>	Varies	Experts
<b>Cost Certainty</b>	Annual production risk	Cost per unit energy produced

# Will our school district save money going solar?

- A free solar analysis of your facility will be provided by NYPA
- This will include an analysis of electric bills
- Solar energy is cost competitive with the electric utility prices in many parts of New York State
- Solar energy purchased through a solar PPA provides long-term budgetary certainty

# Are the buildings in our district suitable for solar power?

- NYPA providing free site survey and energy analysis through K-Solar
  - Roof age and suitability
  - Ground mounted or parking lot solar options
  - Shading analysis
  - Analysis of electric bills
  - Energy production estimate



# How long is the contractual process?

- Allow 3 to 5 months from start to completion of contracts.
- Three contractual options:
  - Join K-Solar aggregated procurement of solar PPAs
    - NYPA/NYSERDA/SED technical and administrative support
    - Economies of scale leads to better pricing
    - Competitive solicitation managed by NYPA
    - 12/31/16 deadline for federal tax credit (drops from 30% to 10%)
  - Finance district-owned solar via NYPA
    - Low interest rates
    - Turnkey project management and procurement option
  - District can finance purchase directly via bond issue
    - NYPA can provide template documents for the district's competitive bid solicitation

# How long is the construction process?

- Allow 5 months to one year from project kick-off meeting to operation of solar array.
  - This includes the design, permitting, construction and inspection phases.
- The State Education Department will need to process the building permits for the solar array – even for a third-party owned system.

# How can K-Solar assist us in the process of going solar?

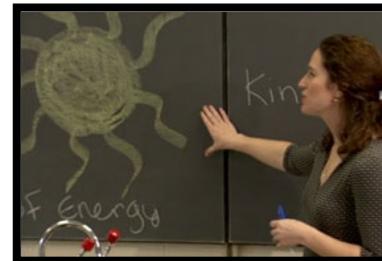
- Educational webinar series
- Free site survey and solar energy analysis
- K-Solar Program aggregated procurement
  - Technical and administrative support
  - Economies of scale
- Template documents
- Expedited permitting

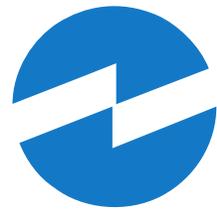
# For additional information

- NYPA K-Solar website link: [www.nypa.gov/K-Solar](http://www.nypa.gov/K-Solar)
  - Includes registration for program and pre-recorded webinars
- NYSERDA website link: <http://ny-sun.ny.gov/>
  - Information on solar incentives
- Contact us:
  - [solar@nypa.gov](mailto:solar@nypa.gov)
  - 914-681-6431

# For additional information

- **Community Solar NY:**
  - **K-Solar Schools are Community Solar Hubs**
  - Showcase solar and tell your story
  - Help Solarize your neighborhood
    - Host events and spread the word
    - Find the Solar Champions in your community
  - Make clean energy a part of your classroom education
  - Funding and resources from NYSERDA
  - **Contact: Max Joel, Program Manager, NYSERDA**
    - **212-971-5342 ext. 3035**
    - **[max.joel@nysERDA.ny.gov](mailto:max.joel@nysERDA.ny.gov)**





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