



Ticonderoga Central School District

Public Hearing on Solar Farm
March 22, 2016

+ Agenda



- Overview/History
- K-Solar
- SolarCity
- How Does this Work?
- Financial Impact
- Questions

+ History



- 2014 TCSD Participated in solar survey
- K-Solar Program Launched
- TCSD Chosen as potential solar site
- May 2015- Building project/new roof EMS
- Advantages of Ground Mounted System
- Remote net metered site
- March 29, 2016- Land purchase vote

+ K-Solar

- Joint Program New York Power Authority (NYPA) and New York State Energy Research and Development Authority (NYSERDA).
- Provide tools and expertise to bring solar to schools.
- Takes advantage of incentives and high volume pricing.
- Free Advisory Work:
 - Review of Facilities
 - Cost Savings
 - Find Partners (SolarCity)



+ K-Solar

- Advisor works with provider so that no initial costs or operation and maintenance cost to the school.
- School Agrees to purchase power at a contracted price for 18 years.
- Federal Tax credits allow the developer to construct the system and provide savings to the school.
- Solar Provider guarantees the output of the system and will compensate if the electricity falls below the guarantee.
- RFP was issued- SolarCity was selected as the provider.



+ SolarCity

- Awarded contract through K-Solar Program
- Will provide the following services at **no cost** to the District:
 - Site Audit- Spring of 2015
 - Engineering
 - Permitting
 - Installation/Final Inspection
 - Utility Connection
 - Monitoring
- 2015 Site Audit showed considerable more savings for a ground mounted system than a roof top system
- SolarCity guarantees the output of the system and will compensate if the electricity falls below the guarantee.



+ Cost

- Because the District does not have enough contiguous property to support a ground mounted system, TCSD proposing purchasing property.
- Property is located on Route 9N Lot number 139.4-4-4.000
- Cost of property- \$70,000.00
 - District asked for 2 independent cost analysis from local realtors
 - Realtor 1- Century 21- \$75,000.00 appraisal
 - Realtor 2- Caldwell Banker- \$74,235.00 appraisal
- Tax Impact: \$70,000.00 added to the 2016-17 spending plan which equates to .63% on the levy.



+ How Does this work?

- Remote Net Metered Site
 - Electricity that is generated will be credited to our account- 1 KW Hour = \$00.13.
- Power Purchase Agreement- (PPA)
 - TCSD will purchase power from SolarCity \$00.08/KW hour
- Guarantees
 - If site produces more, TCSD will receive credit from SolarCity at the end of the contract.
 - If site produces less, TCSD will be compensated at the PPA rate
 - Purchase Contract Agreement- rate lower than grid rate



+ Financial Impact



- Anticipated \$50,000.00 energy savings per year over the next 18 years (conservative).
- SolarCity Chart.
- \$20,000.00 one time incentive.
- Savings are guaranteed.
- Property will become tax exempt. As the BOE did not opt out of the Solar Farm provision, the Solar Farm will be tax exempt for 15 years.

+ Advantages of Using Solar



- Financial
- Environmental
- Educational Programs

+ Questions?

