

## Saving Energy and Money with Solar



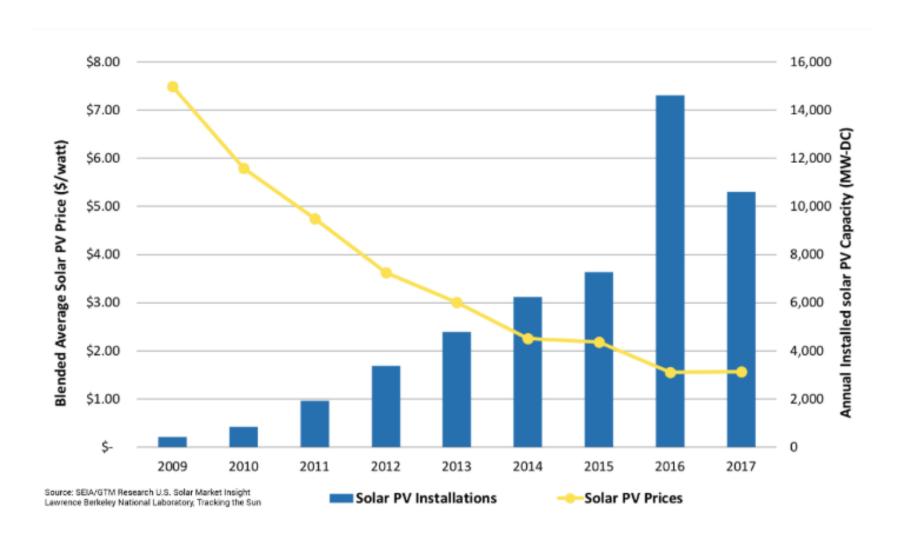
## 250+ Employee Owners

that care about your system and its lifespan

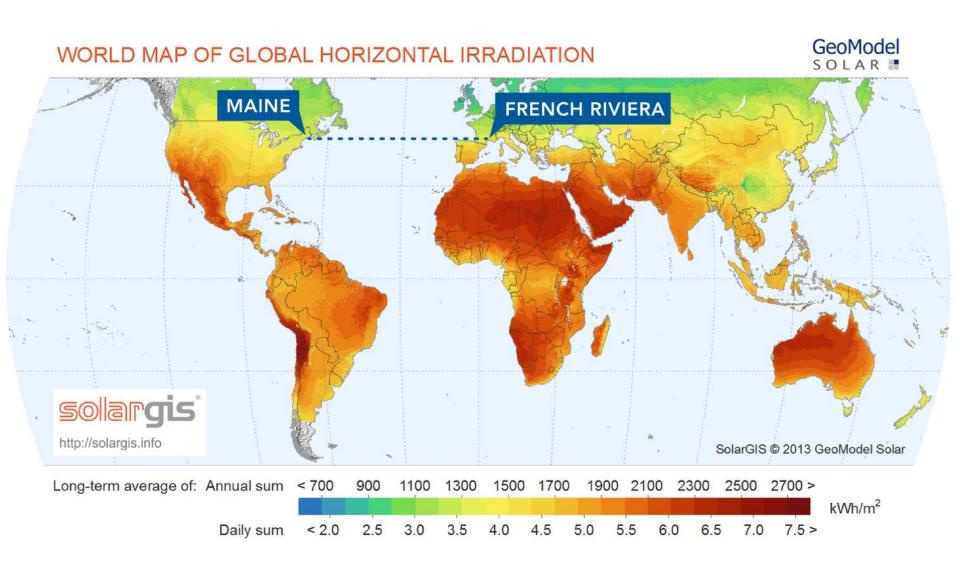




#### U.S. Cost of Solar Power (\$/watt) & Solar Installations



### World Map of Solar Potential



## Germany Achieves Milestone – Renewables Supply Nearly 100 Percent Energy for a Day

May 16, 2016

By Jessica Shankleman, Bloomberg

Clean power supplied almost all of Germany's power demand for the first time on Sunday, marking a milestone for Chancellor Angela Merkel's "Energiewende" policy to boost renewables while phasing out nuclear and fossil fuels.



Solar and wind power peaked at 2 p.m. local time on Sunday, allowing renewables to supply 45.5 GW as demand was 45.8 GW, according to provisional data by Agora Energiewende, a research institute in Berlin. Power prices turned negative during several 15-minute periods yesterday, dropping as low as minus 50 euros (\$57) a MWh, according to data from Epex Spot.

## **Major Components**



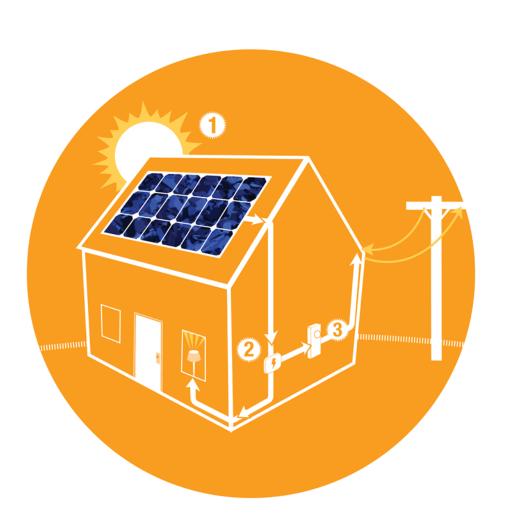








### **How Solar Energy Works**



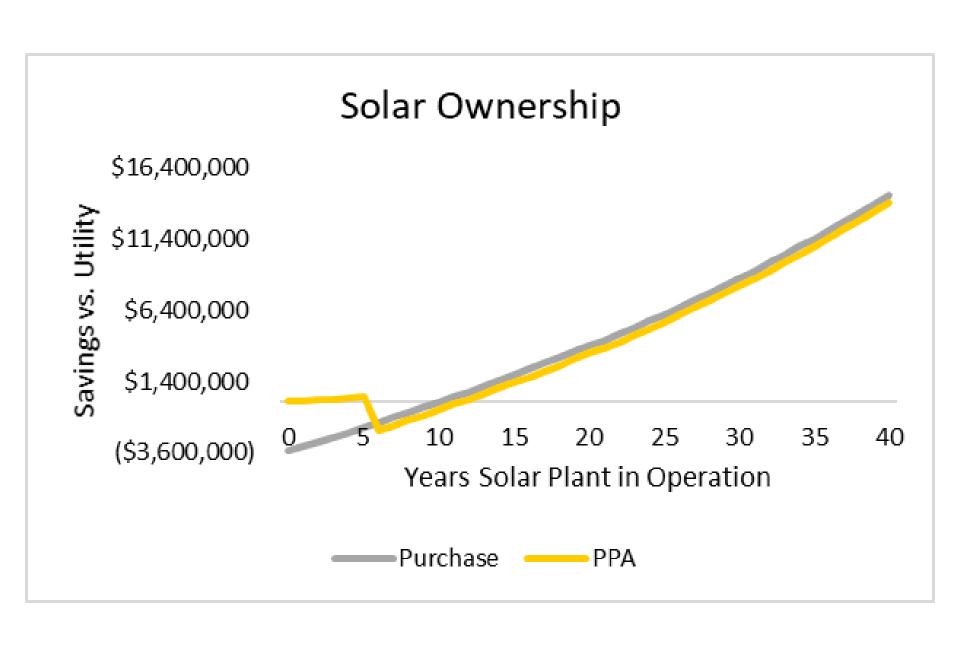
- 1. Sun hits panels, creating DC electricity.
- 2. Solar inverter converts DC power into AC power for your lights, television, computers, etc.
- 3. Excess power is sent to the grid, crediting your monthly bill.

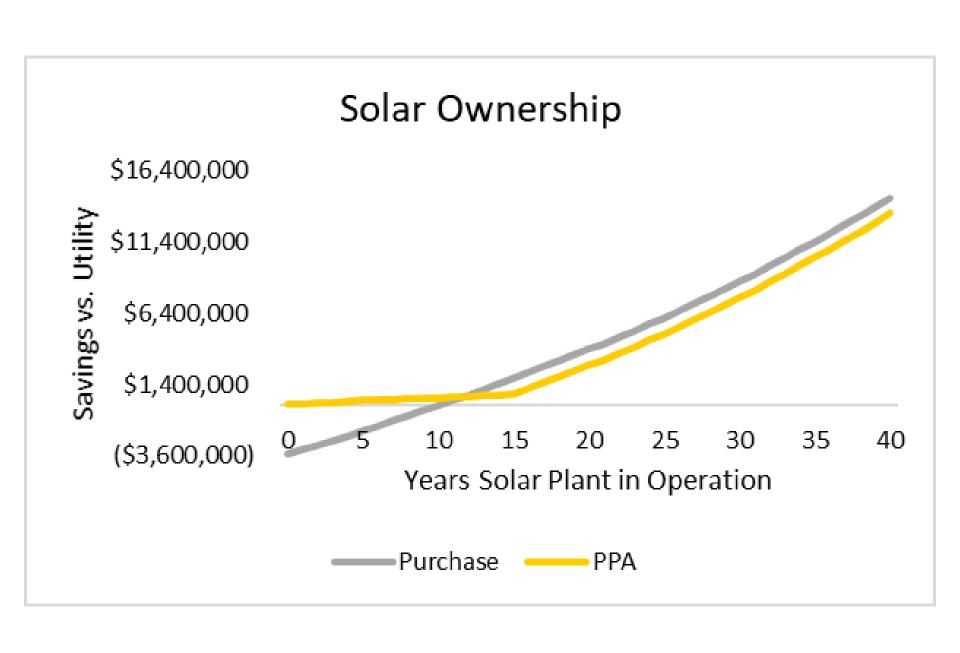
# Financing Options for Schools and Non-Profits

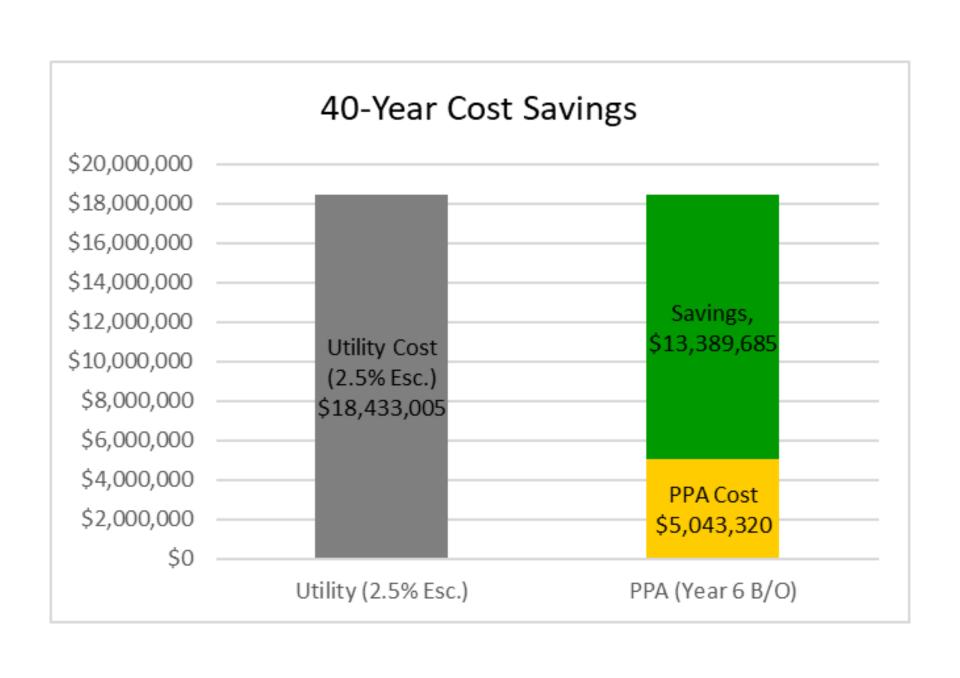
- Schools & Non-Profits cannot directly monetize tax incentives
- Instead of buying outright, can finance through Power Purchase Agreement (PPA)
  - No upfront cost to non-profit
  - Indirectly takes advantage of federal tax incentives
  - Speeds up payback period

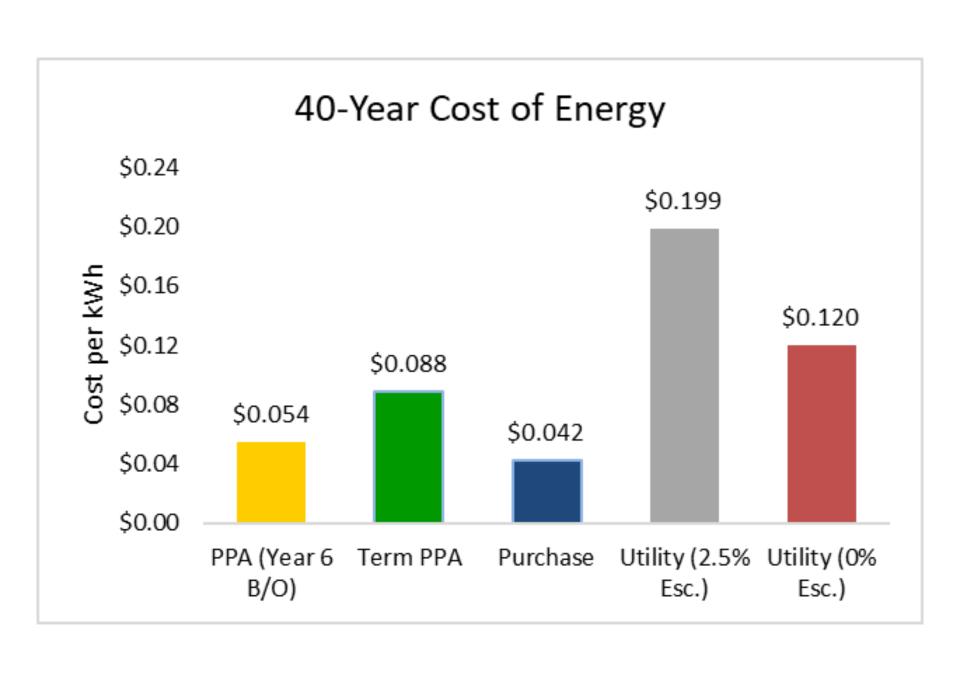
#### Solar PPA Structure

- School licenses roof/land space to Investor (if on-site project)
- Investor finances, builds, owns and operates for 5-30 years
- Investor sells solar electricity to school, at a discount
- After 5 years, school can purchase at 60% 70% upfront price









#### Solar for Northern New England Schools

- 127 kW- Colby-Sawyer College, NH
- 26 kW- Good Will Hinckley School, ME
- 330 kW- Proctor Academy, NH
- 150 kW- Camden Hills HS, ME
- 87 kW- East Rochester School, NH
- 37 kW- Riley School, ME
- 62 kW- Cornerstone School, NH
- 81 kW- Bristol Consolidated School, ME

- 78 kW- Plymouth State University, NH
- 38 kW- Unity College, ME
- 43 kW- White Mountain School, NH
- 170 kW- Thomas College, ME
- 50 kW- College of the Atlantic, ME
- 126 kW- Saint Dominic Academy, ME
- 267 kW- Hebron Academy, ME
- 535 kW- Phillips Exeter Academy



#### Maine Municipal Solar Projects

- 40 kW for Town of Windham
- 58 kW for Town of Sebago
- 33 kW for Waterville Sewerage District
- 68 kW for Town of Shapleigh
- 20 kW for Town of Parsonsfield
- 23 kW for Town of Woolwich
- 17 kW for Town of Gorham
- 43 kW for Town of Lincolnville
- 41 and 130 kW for Town of Eliot
- 111 kW for Town of Boothbay
- 73 kW for Town of Bar Harbor
- 37 kW for Town of Wells
- 123 kW for Town of Camden
- 21 kW and 1016 kW for City of South Portland
- 121 kW and 883 kW for City of Belfast
- 28 kW for Town of Yarmouth
- 42 kW for Town of Scarborough
- 25 kW for Town of Rockport
- 77 kW for Town of Mount Desert
- 47 kW for Town of Islesboro
- 23 kW and 955 kW for City of Portland
- 62 kW for Town of Chebeague
- 462 kW for Town of Cumberland





## 126 kW PPA Project on Saint Dominic Academy Auburn, ME



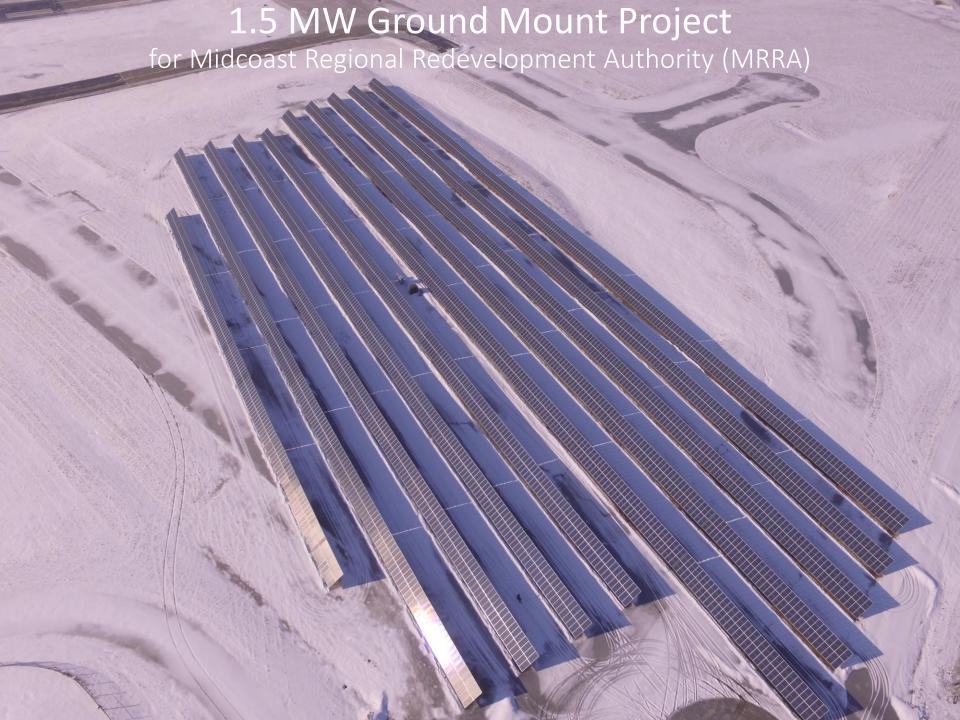
### 150 kW PPA Project for Camden Hills High School











## 618 KW Ground Mount Array for Limestone Water & Sewer District



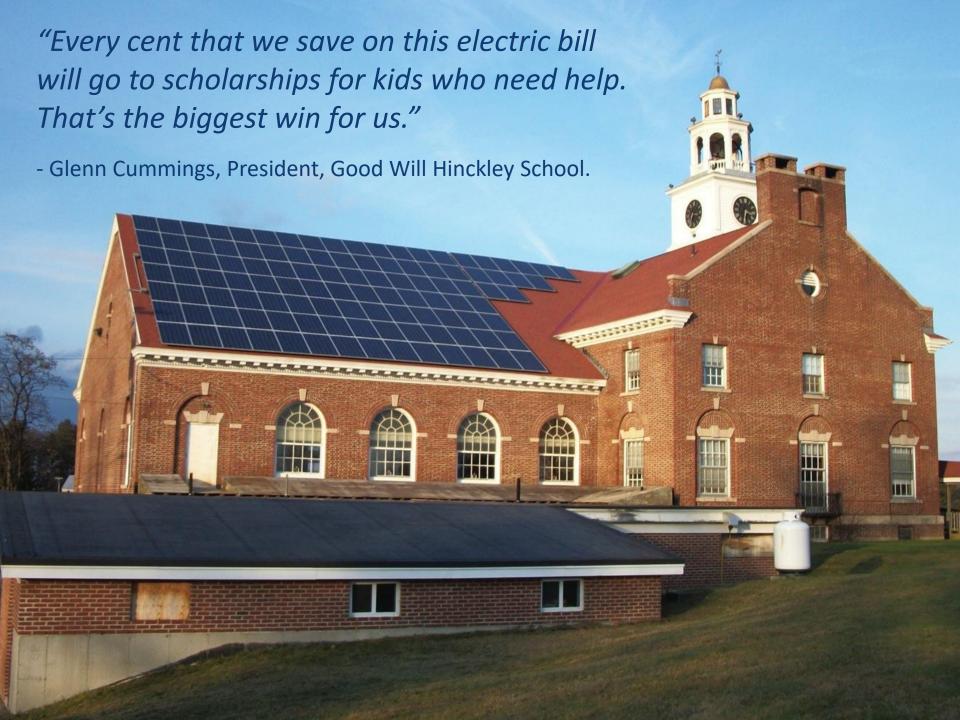


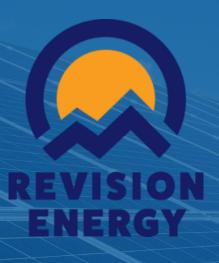
## 1.02 MW Capped Landfill Project

for City of South Portland, ME









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