Solarize Kehillah

Why and How

Global Climate Change
Requires Local Action

Greenhouse gases rise faster than ever …
Politicians dither more than ever …
We can act and lead locally!

Kehillah will help fight global climate change by using renewable solar energy to generate a portion of the electricity that the building uses.

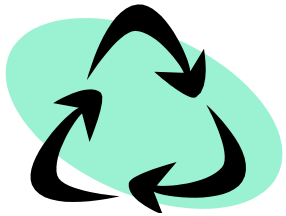
Kehillah's Carbon Footprint

Every year, the Kehillah

- Uses 85,000 kWh of electricity
- Purchased from Duke Energy at a cost of $9000.

This is the environmental equivalent of:

- 58.6 metric tons of CO_2
- Emissions from 12.3 cars
- Burning 62,956 lbs. of coal

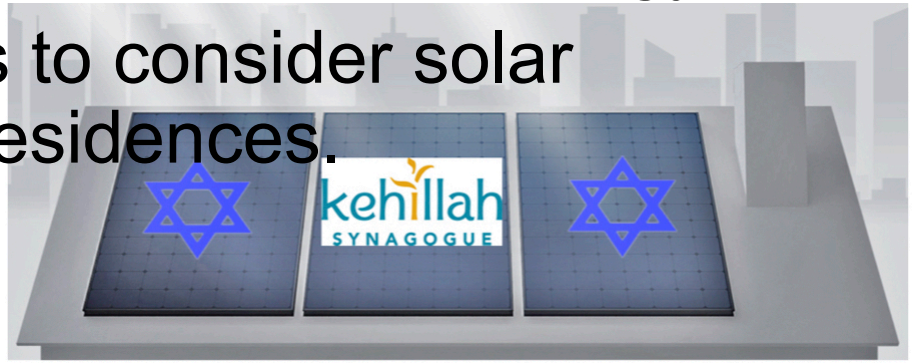


How can we reduce our greenhouse gas emissions to help reduce climate change?

Project Goals

- Raise $94,000 to build a 120-panel system, which would cut our carbon footprint by more than 43%!

- Create opportunities to engage the Kehillah community:
  - Every family participates however they can
  - Teach our children about renewable energy
  - Encourage individuals to consider solar installations for their residences.



Benefits of *Project Solarize Kehillah*

- Reduce greenhouse gas emissions
- Reduce Kehillah's energy expenses
- Teach our children Tikkun Olam
- Encourage members and others to act to reduce emissions.

Solarize the Kehillah Building

Sample Vendor Proposals						
Power Generation Capacity (kW)	Annual Energy Prod. (kWh)	% of Kehillah's Annual Energy Usage	System Cost	Annual Savings Equivalents		
				Metric tons CO_2	Cars driven	Lbs. Coal burned
20.8	24,107	28%	$63K	16.6	3.4	17,800
31.2	36,161	43%	$94K	24.9	5.2	26,800
System size can be scaled to funds available, replacing a larger percentage of the Kehillah's energy usage with more funds.						

Power generation capacity is the number of kilowatts (a unit of power) the panels can generate in full sunlight; annual energy production is the number of kilowatt-hours (a unit of energy) estimated to be produced in a typical year, accounting for weather and seasonal variations; percentage of Kehillah's annual usage is the percentage of the Kehillah's current electricity usage that would be replaced by the estimated annual production; system cost is the cost of building and installing the system.

Solarize the Kehillah Building

Vendors Making Proposals

BAKER RENEWABLE ENERGY

SOUTHERN ENERGY MANAGEMENT

Yes!™ solar solutions

NC 35% Tax Credit
Reduces Cost to Donors

Example: 25% Federal marginal tax rate

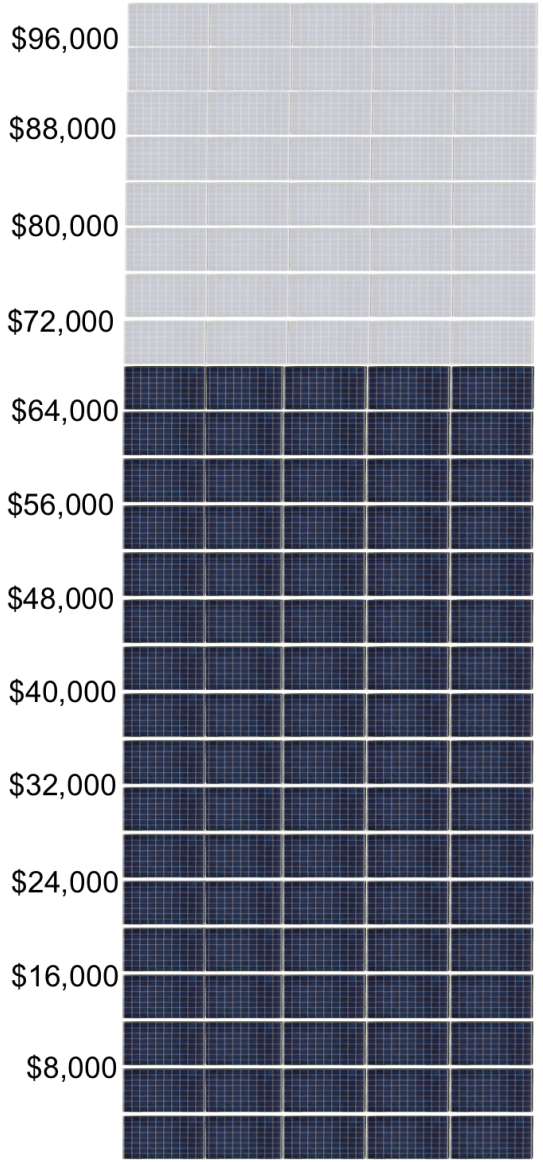
- Donate $1,000
  - NC tax credit in 2015: -$350
  - Federal charitable contribution deduction: -$250
  - Federal tax on NC tax credit: +$87.50
- Effective cost to donor: $487.50

Effective cost to donors is less than ½ the system cost!

Kehillah Saves Energy Costs Too!

- A system costing $94,000 will save the Kehillah **more than $130,000** on its energy bills over a 25 year period.
- But, with tax breaks, will cost donors less than $47,500.

We are well on our way!!!



An Exciting Challenge Grant:
A generous donor has pledged an additional $50 for every member family that donates (any amount) to *Project Solarize Kehillah*!

Timetable for *Solarize Kehillah*

December 2014
- Fundraising starts

February 2015
- Pledge drive completes
- Choose vendor

March 2015
- 15th: collect all pledges
- Size system to money collected
- 31st: sign contract with vendor

…
- Installation

Before YE 2015
- System in production

January 2016
- Tax credit info sent to donors

Please Join Our *Solarize the Kehillah* Effort

- Talk it up among your friends
- Set an example for your children
- Donate as you can

More info:
http://kehillahsynagogue.org/solarize-kehillah

To donate:
http://kehillahsynagogue.org/solarize-kehillah-donation

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