



Community Solar and Lighting / Energy Efficiency



E3 Coalition &
Legacy Solar Cooperative
Design, Build, and Subscription Program



Barriers for Community Solar



- IRS Law
 - Town of Holland cannot take the Tax Credit for solar
- Utility Law
 - The sale of electricity to the public is prohibited, unless you are a public utility with a Certificate of Authority
- Security Laws
 - The offering of a return-on-investment to the public is prohibited unless registered as a security and complying with State and Federal Security Laws

Basic Model

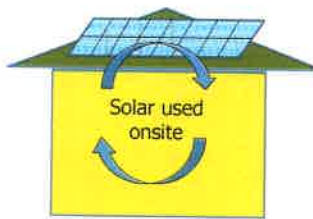


Community Solar Members

Solar Services Agreement

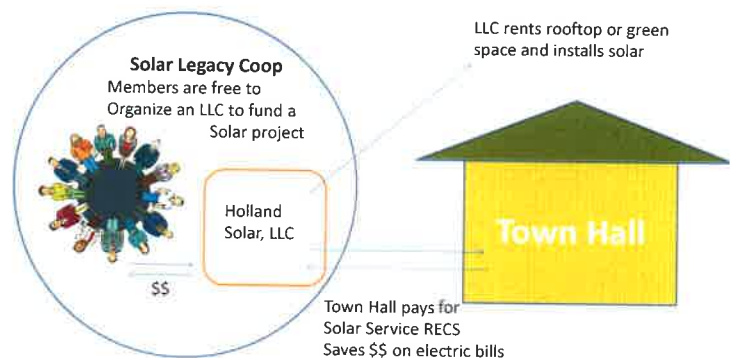


Shared Savings



Host Site in Community

E3 Coalition – Legacy Solar Cooperative



E3 Coalition- Solar Connections, LLC Approach



- City of Monona – single owner, single customer
 - Renewable Energy Credit Service Agreement
 - (not a Power-Purchase Agreement)
- School Projects – single IRS owner, Co-op model
- Church Projects – single IRS owner, Co-op model
- Town of Holland –

21,772	kWh
17.42	kW solar

 or
- Town of Holland – Sell to Riverland Coop

Option A: Behind-the-Meter

- 17 kW of solar
 - Approximately 68 individual solar panels (@250W)
 - Price to Holland = Minimal
 - Price per Panel to Town of Holland Subscribers
 - Approximately \$650.00 per panel
 - Subscription (Shared Savings) Value of Savings
 - Approximately \$25.00 per year
 - With escalator, possibly 15 year payback
- **ROI much better when you add in Energy Efficiency Measures: 10-12 year payback**

Disclaimer: Hypothetical example. Actual results would depend on many factors and be spelled out in the membership and bond or subscription agreements of the Cooperative.

21,080	kWh
17.00	kW solar
68	panels
\$ 59,500	gross cost
\$ 40,460.0	buyout
\$ 624.8	per panel
310	kWh/yr/panel
\$ 24.80	if \$.08/kWh
3.97%	Payback, yr 1

Comparing Solar Alone & Solar with Energy Efficiency

20 kW Solar: per panel

EE Added in: (New: no EE) \$7,500.00 \$ 10,000.00

	(New: no EE)	\$7,500.00	\$ 10,000.00
Price per Module Share	\$713.71	\$790.61	\$816.24
Anticipated Credits or Dividends per panel, per year	\$23.54	\$41.19	\$48.06
1st annual return-on-investment	3.30%	5.21%	5.89%
25 year Internal Rate of Return	3.14%	6.87%	7.80%
Simple Payback, year 1 rate	30.3	19.2	17.0
Year-Payback, with	16.0	12.0	11.0
	New School	Old School	or other Retro-fit

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Option B: Sell to Riverland Elect Coop

- Riverland would probably have Xcel own the system near the new sub-station
- Same kind of program except solar panels end up as “bill credits” on Riverland Elect. Bill
- No local control
- No local ownership
- Riverland and Xcel are in charge, not the consumers.
- Only Local Membership Tax Equity would qualify as contributing to the “local” economy. If tax credits go out of the region or out of the state, that defeats the “Local” ownership and control.