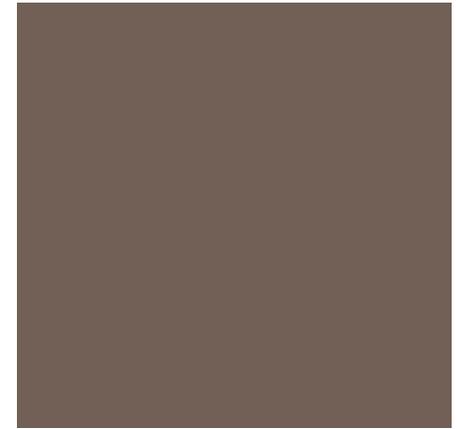


Becket Energy Committee Solar Presentation



Isaac Baker
Co-op Power & Resonant Energy
Solar Development Partnership
10.15.2016



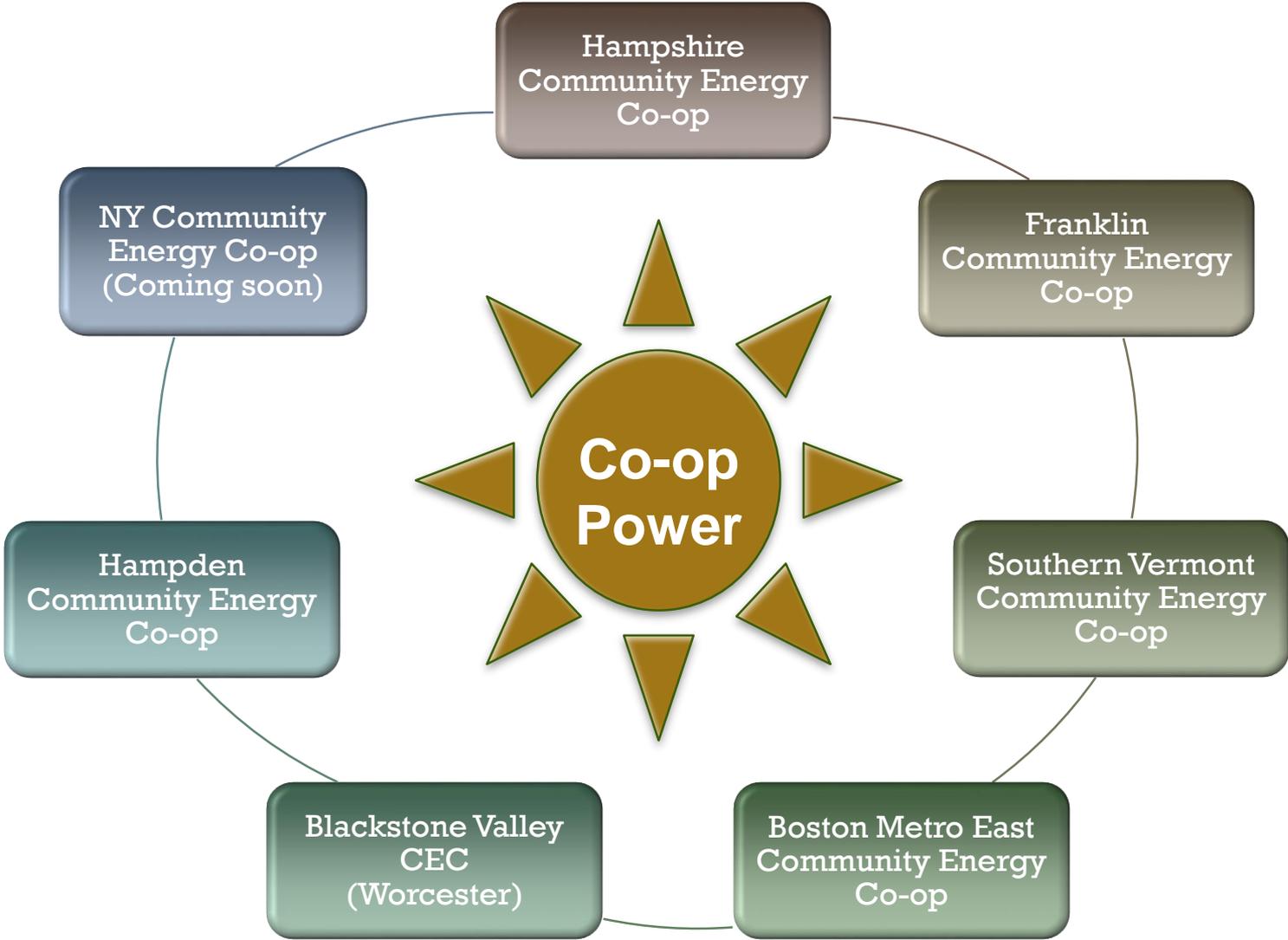
Co-op Power is a multi-race, multi-class movement for more just and sustainable communities

+

Resonant Energy is dedicated to making 100% clean energy available for 100% of people.

Co-op Power is...

A Decentralized Network of Local Communities





Core Solar Development Principles

1. **Better Together** — Community-led Planning & Development
2. **Affordable & Accessible** — Financing Options for Limited Resource Communities
3. **Local Dollars, Local Sense** — Local-Ownership & Local Contractors Where Feasible

1. Urban Rooftop Solar Aggregations

Overview: Co-op Power brings together small commercial buildings owned by nonprofit and cooperative organizations in urban environments. Scale = savings.

Financing: Local 3rd Party Financing. Tax Equity (40%), Debt (60%).

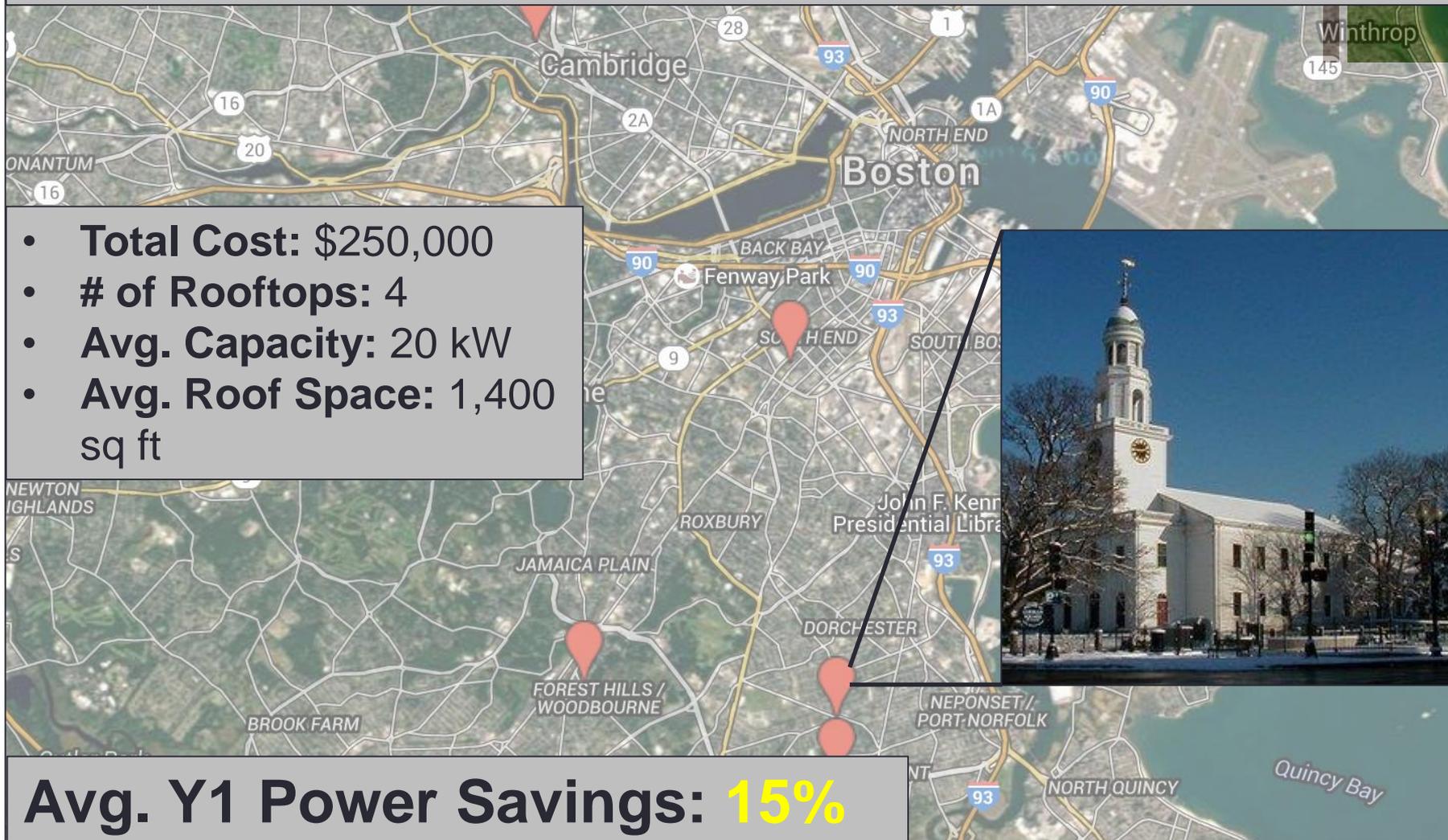
Consumer Offer: No Money Down. Lease Your Roof. Save > 10% on electricity for 20 years. 10-Year Buyout Option.

Examples to Date: Boston, NYC, Smith College.

Community Solar Potential: Urban. High electric rates and full retail net metering allow for cost effective virtual net metering to individual customers. Currently only viable in NY.

Urban Rooftop Solar Aggregations

Boston Interfaith Community Solar Project '16



Urban Rooftop Solar Aggregations

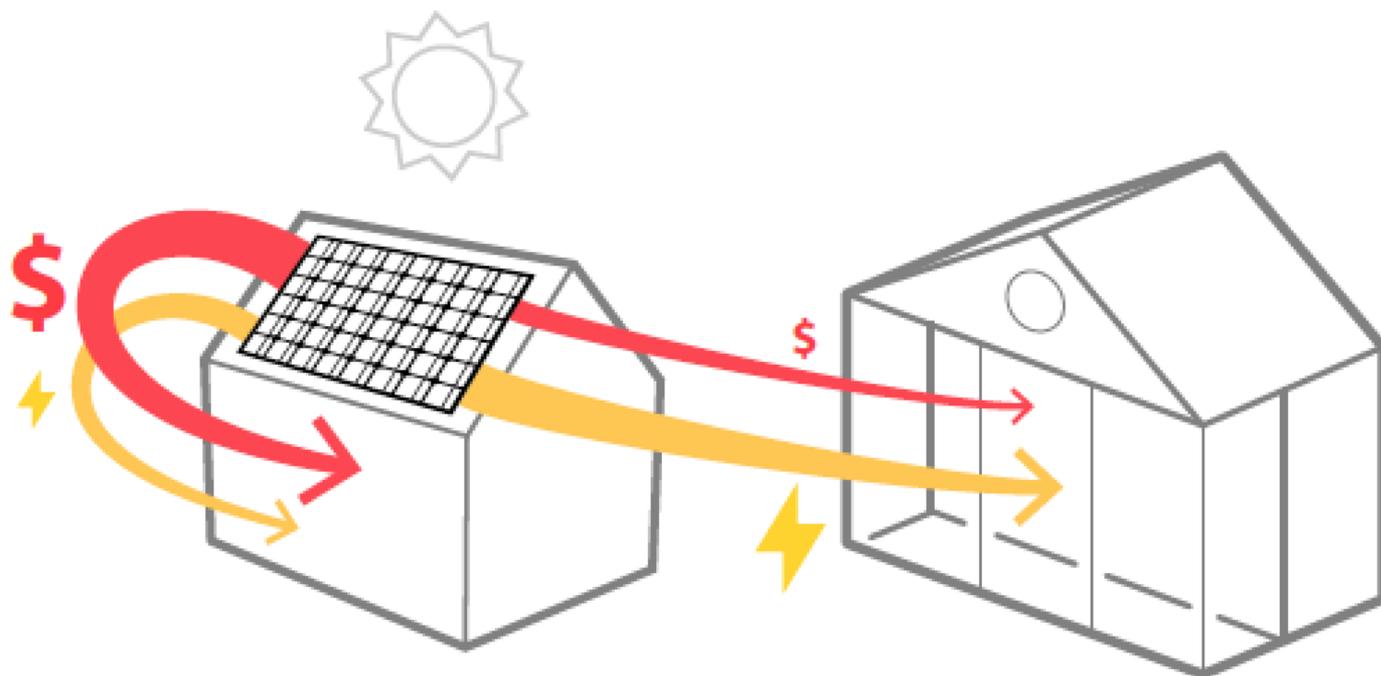
NYC Low-Income Housing Community Solar '17

- **Total Cost:** \$640,000
- **# of Rooftops:** 10
- **Avg. Capacity:** 20 kW
- **Avg. Roof Space:** 2,000 sq ft



Avg. Power Savings: 20%

Resonant Energy: Solar Access Program



YOUR HOUSEHOLD

- Saves 20-50% on your electricity bill
- Receives 20% of the output of the solar array
- No purchase agreement

COMMUNITY PARTNER

eg. Affordable Housing or Municipality

- Buys electricity at market or discounted rate
- Receives 80% of the output of the solar array
- Signs a power purchase agreement

*Boston / National Grid territory exclusive offering in MA.

Solar Access Program Cont.

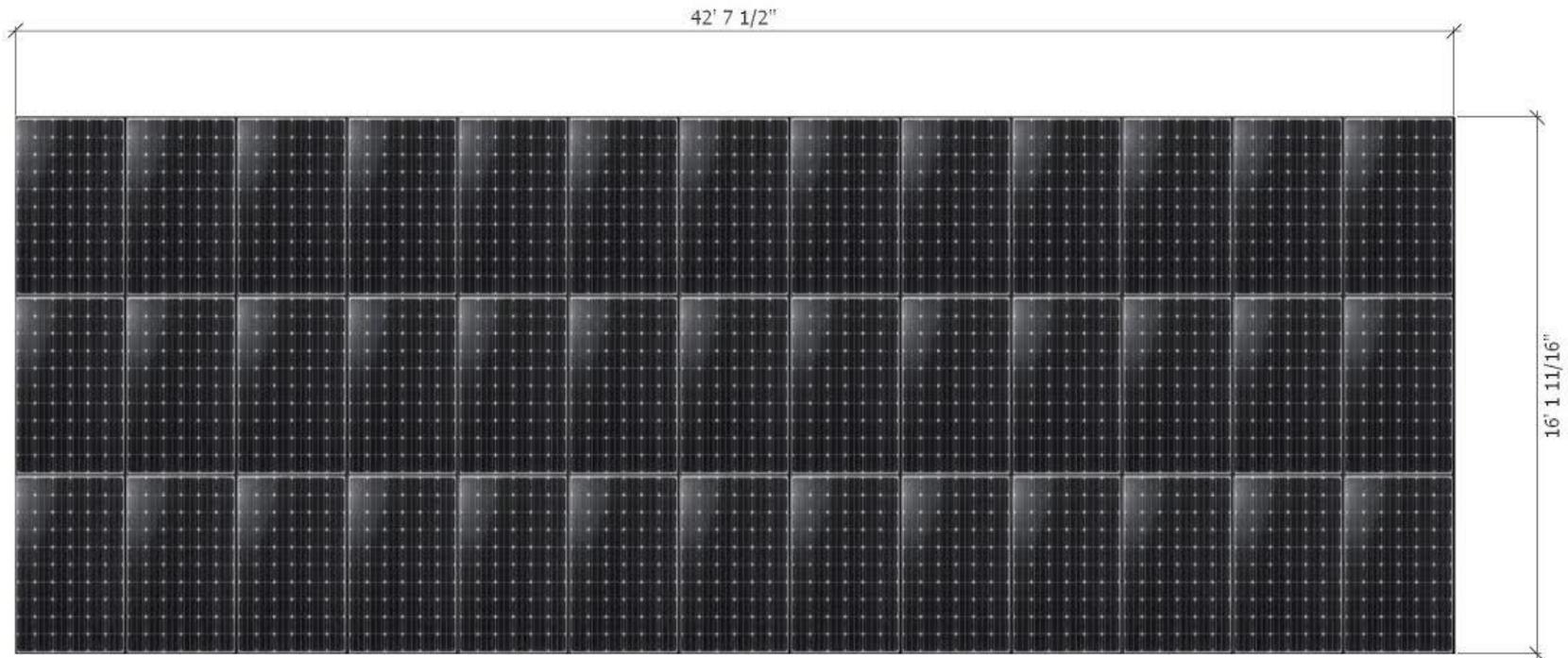
Program Highlights

- **Project Hosts are not required to make any payments.**
- **Project Hosts with household income <\$70,000 per year receive average annual power savings of at least 35%, or about \$400 per year.**
- **All other Project Hosts receive power savings of at least 20%, or about \$250 per year.**
- **The term of the roof lease is 20 years, with an option to extend to 25.**
- **Resonant Energy takes full responsibility for system operations and maintenance.**
- **Resonant Energy takes full responsibility for financing the system.**

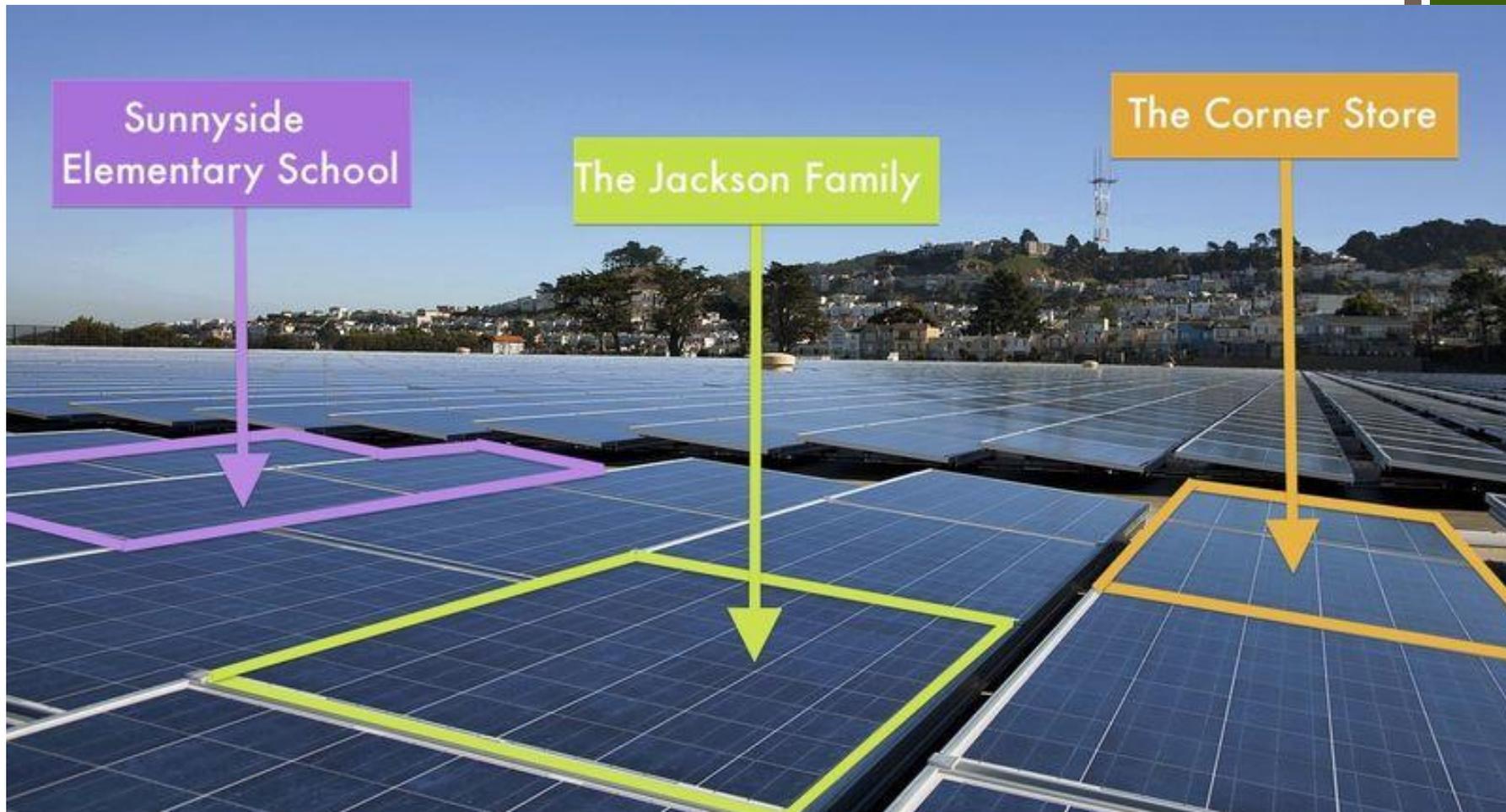
*Boston / National Grid territory exclusive offering in MA.

Average Residential Project for Boston or National Grid MA Aggregation

- 39 modules at 300Watts = 12kW
- Space Requirement: 700 sq. ft



Neighborhood Shared Solar Model



Neighborhood Shared Solar Model

Overview: Co-op Power partners with community leaders to develop neighborhood net metering projects by leasing a site and owning it on behalf of the community for 20 years.

Financing: 100% Participant-Funded

Size Optimization:

- MA policy encourages <25 kW on 3-Phase (4,000 sq ft.).
- NY policy encourages <200 kW (1.5 acres).

Consumer Offer: Go solar together. One-time purchase of panels and equipment. Receive Federal Tax Credit (25D), all power generated, and SRECs (after shared expenses). With Solar Loan Program, attractive payback rates.

Examples to Date: Partners in VT, NY, and ME.

Neighborhood Shared Solar Model

Required Ingredients:

1. **Community.** 4-5 people who want to participate in developing a project together.
2. **Site.** Best place to start is with something sunny!
 1. **Small End:** 25 kW = 4,000 square feet (MA)
 2. **Large End:** 500 kW = 2-3 acres (MA)
 3. **If Ground-Mounted:**
 1. *Setbacks.* Must be far enough away from existing buildings and other properties like any other construction.
 2. *Environmental.* Must be 100' from any wet areas and 200' from streams or river ways.
 4. **If Roof-Mounted:**
 1. *Structural.* Must be a strong building able to handle load.
 2. *Roof Material.* Under 5 years old, asphalt or rubber required.

Ex. Neighborhood CSS Project



- **Size:** 25 kW; **Cost:** \$130,000 (\$2.60/watt)
- **Ownership:** Panels Directly Owned
- **Off-taker(s):** Power Distributed to each buyer of panels
- **Financing:** Solar Loans available at 3.9%, 10 year in NY.
- **Avg. Cost/Buyer:** \$16,000 (5 kW)
- **Number of Buyers:** 10

Thank you!

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