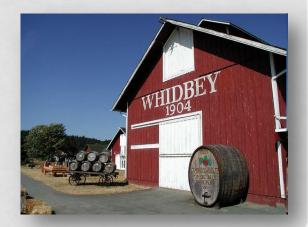
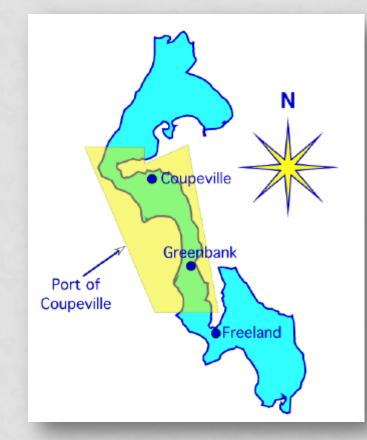
A COMMUNITY SOLAR PROJECT FOR GREENBANK FARM:

A Public/Private Partnership

- The Port of Coupeville
- Island Community Solar, L.L.C.



• The Port of Coupeville



Primary Mission:

Economic Development

Major Sites of Activity:

- Greenbank Farm
- Coupeville Wharf & Marina

Three Commissioners:

- Mr. Marshall Bronson, Pres.
- Ms. Ann McDonald, VP
- Ms. Benye Weber, Sec.

Executive Director:

• Mr. Jim Patton

Island Community Solar, L.L.C.



Founding Members:

- Paul Dickerson
- Ryan Goodman
- Paul Mathews
- John Hastings
- Linda Irvine
- Tim Economu

• Net Metering of Electricity Law

RCW 80.60 enacted in 1998



Initiative 937

Approved by the voters in 2006



 RCW 19.285 also known as the "Energy Independence Act" "requires large utilities to obtain 15% of their electricity from new renewable resources such as solar and wind by 2020 and undertake cost-effective energy conservation"

"Eligible renewable resources" include:

- Wind
- Solar
- Geothermal
- Landfill & sewage gas
- Wave & tidal power
- Certain biomass & biodiesel fuels

Important terminology

- Renewable Portfolio Standard (RPS)
- Renewable Energy Credit (REC)

• Ellensburg Community Solar

- 2006 Initial 36 kW Installation
- 2008 "Harvesting the Sun" Conference





Community Energy Solutions (Bainbridge Island)

- 2008 Initial 2 kW Installation
- O 2009 Enlarged to 5.1 kW







State Production Incentive Program



• May 2005 – Senate Bill 5101 Single-owner systems

Out-of-State Equipment 15 ¢ / kWh

In-State Modules 36 ¢ / kWh

In-State Modules & Inverter 54 ¢ / kWh

May 2009 – Senate Bill 6170 Community systems

Out-of-State Equipment 30 ¢ / kWh

In-State Modules 72 ¢ / kWh

In-State Modules & Inverter \$1.08 / kWh

RCW 82.16.110 et seq. / WAC 458-20-273

State Production Incentive Program

- A solar energy system of up to 75 kW of capacity.
- Installed on property owned by a cooperating local governmental entity. (not Federal or State property)
- Owned by:
 - **1. A group** (Local individuals, households, non-profit organizations or non-utility businesses)
 - 2. A utility company (and funded voluntarily by rate payers)
 - . **A company** (Limited Liability Company, Cooperative , or Mutual Corporation or Association)
- Incentivizes private capitalization for local government renewable energy projects and supports a local industry.
- O Terminates June 30, 2020



RCW 82.16.110 et seq. / WAC 458-20-273

Gary Shaver, CEO Silicon Energy Marysville, WA

• Advantages of a Community System:

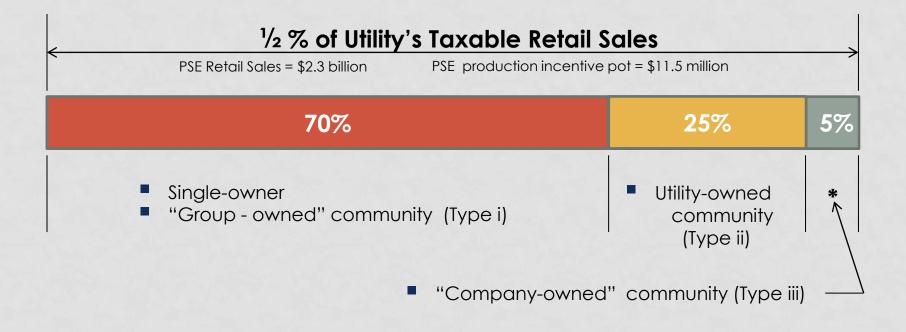
- Optimal solar access
- Economies of scale
- Owners can buy-in for less money
- Better tax incentives (accelerated depreciation)
- Better production incentives



Silicon Energy Modules Marysville, WA

Disadvantages of a Community System:

O Risk:



Our plan for Greenbank Farm

Green Power Challenge

GUEST VIEWPOINT | Take the Green Power Challenge

Aug 25 2009

As the mayors of Langley, Coupeville and Oak Harbor, we are enthusiastic about the success of the Whidbey Green Power Challenge. We need just 170 more participants to enroll in the Puget Sound Energy Green Power Program by Sept. 7 to win \$25,000 for a solar demonstration project here on Whidbey Island.

We encourage Whidbey residents and businesses to

Langley joins the push to promote renewable energy

By <u>ROY JACOBSON</u> South Whidbey Record Reporter May 09 2009

The city of Langley is jumping into Puget Sound Energy's Green Power Challenge with an electric meter and both feet.

Puget Sound Energy to present \$25,000 check to the Island County Council of Governments Funds to support community solar project on Whidbey Island

BELLEVUE, Wash. (Nov. 17, 2009) - Event Advisory:

Whidbey Island meets PSE's Green Power Challenge Community will receive \$25,000 solar project grant from local utility

BELLEVUE, Wash. (Oct. 28, 2009) – Whidbey Island has met Puget Sound Energy's challenge to increase enrollment in the utility's Green Power Program to 1.000 total residential and business.

Our plan for Greenbank Farm

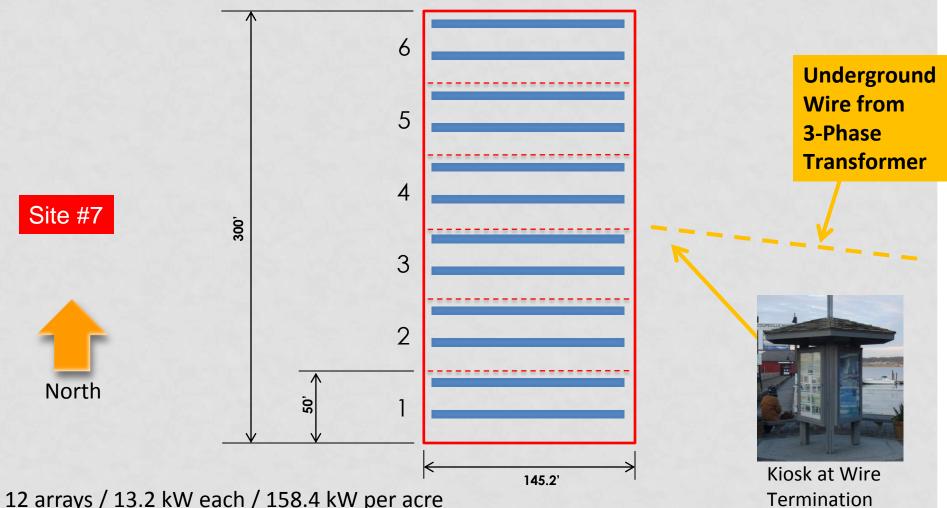
Solar P-patch Concept

- Site development & basic infrastructure provided by the Port of Coupeville for a 1-acre plot.
- Separate individuals or entities lease space in the P-Patch for solar installations.



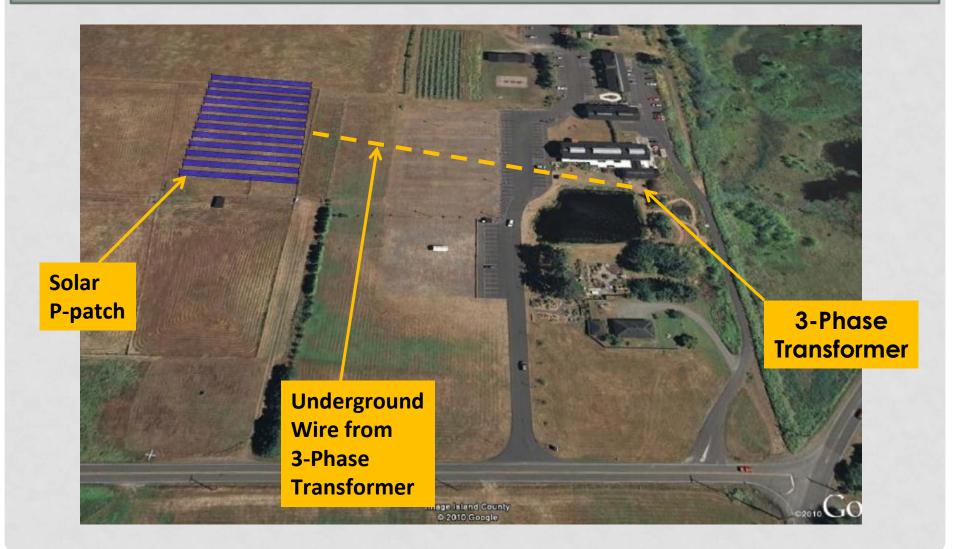






12 arrays / 13.2 kW each / 158.4 kW per acre





• Aesthetic Considerations

• Established Patterns of Development

o Forms: Row Cropso Scale: Human

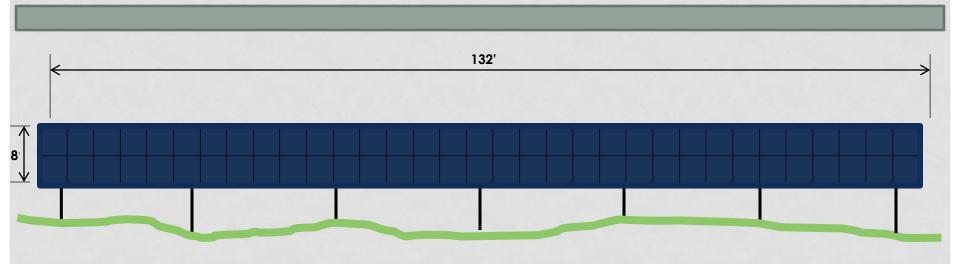


Greenbank Farm, circa 1950

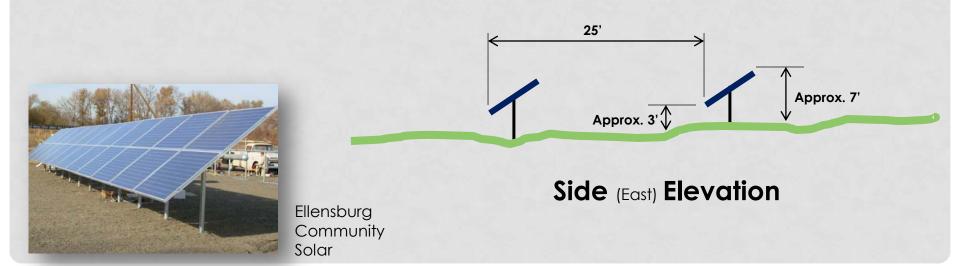
• Aesthetic Considerations



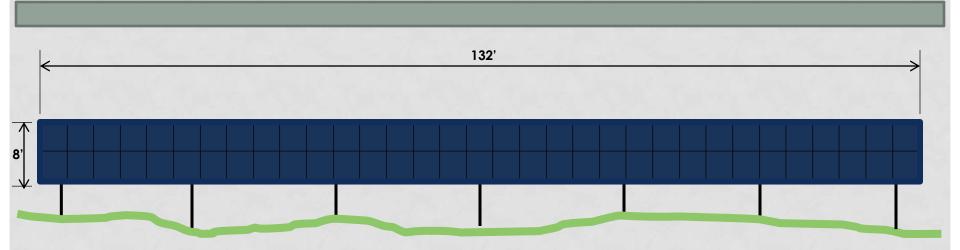
Elegance of the Numbers



Front (South) Elevation

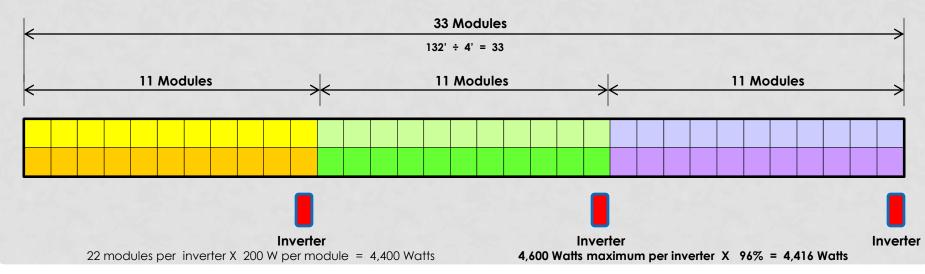


Elegance of the Numbers

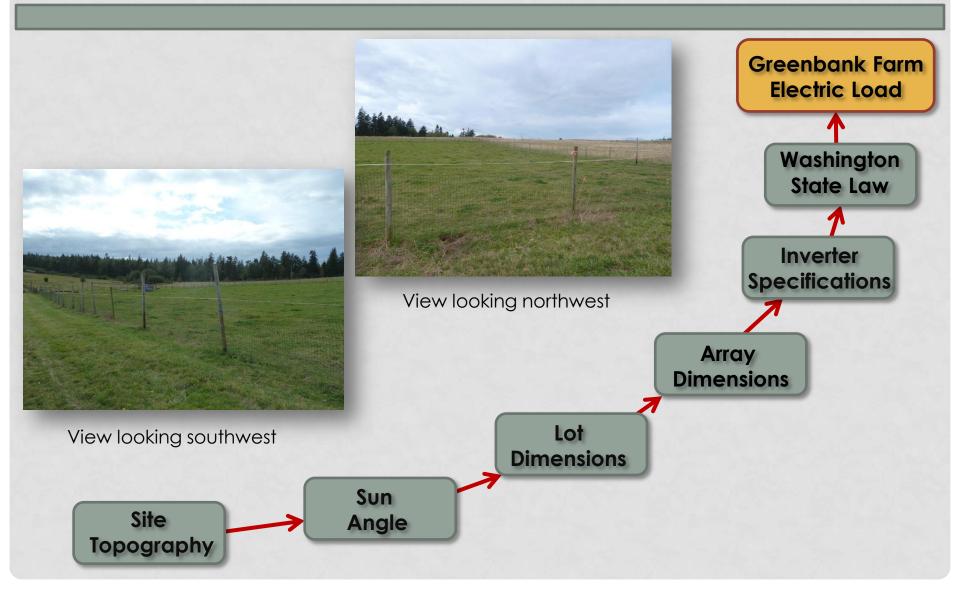


Front (South) Elevation

12 arrays / 13.2 kW each / 158.4 kW per acre



Elegance of the Numbers



3. What is our plan for Greenbank Farm?

• The Business Plan



- o Organized May 2010 as a Limited Liability Company (LLC). (RCW 25.15)
- All profits, losses and tax benefits pass through to the partners in the LLC through annual distributions.
- Maximize revenue from the Production Incentive Program by using Washington State-manufactured equipment.
- Sell the electricity wholesale to Puget Sound Energy (per Schedule 91 Power Purchase Agreement).
- Units of ownership sold in \$5,000 increments with a minimum purchase of \$10,000 and maximum of \$25,000.

Ellensburg Community Solar



3. What is our plan for Greenbank Farm?

• How does the community Benefit?

o <u>The Port:</u>

- A lease that increases the value of the land from \$200 /acre /year to \$3,000 /acre/year
- Still maintains the pasturage at the site
- An option to purchase the array after 2020 at a reduced cost
- Potential for green tourism
- Creates an activity that is consistent with its mission & the comp plan for the Farm

• The Community at large:

- A local, green investment opportunity
- Solar access for people who do not have solar potential at their sites.
- Stimulation of a local renewable energy economy



3. What is our plan for Greenbank Farm?

• Major Areas of Effort:

o Grant Writing:

- USDA
- Green Power Challenge

o Site Plan & Permits:

- Site Selection
- Site Plan Design
- Zoning Review
- SEPA Review
- Site Plan Review

• Business Pro forma, Tax & Accounting:

- Tax Research
- Spreadsheet Design
- Cost Estimating
- Insurance

o <u>Legal:</u>

- Business Formation
- Operating Agreement
- Securities Act of 1933
- State Filings
- Lease Agreement Port of Coupeville
- Power Purchase Agreement PSE
- Community Solar Law
- Installer Contract Bidding & Negotiation

<u>Electrical Design:</u>

- Photovoltaic Array Design
- Inverter Design
- Racking system Design
- Connection to the Grid
- Monitoring System

Island Community Solar, L.L.C.



Founding Members:

- Paul Dickerson
- Ryan Goodman
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- Tim Economu

For more information call: 360-320-0187