WINTHROP COMMUNITY SOLAR PROJECT
EXAMPLE INVESTMENTS AND POSSIBLE RETURNS

Town of Winthrop Community Solar Electric System **UPDATE** Date: February 3, 2012

Minimum individual investment	**$ 500.00**	**add in $500 increments up to $15,000**

Calculations are based on a project cost of $220,000

Estimates of annual energy production are based on 10 years of local data and 30 years of regional data. As with any investment there are risks and the annual energy production will vary from year to year depending on weather and other factors; see Winthrop CSP Q&A.

Installed watts for 5 arrays:	System size:	22,800	Watts

Original energy production estimates:	Annual kWh	$ pre kWh	Total Incentive
Minimum estimated annual kWh production	27,360	$ 1.08	$ 29,548.80
Anticipated average	28,272	$ 1.08	$ 30,533.76
Maximum (could be more)	29,184	$ 1.08	$ 31,518.72

Based on 1st 6 months of energy production,
the average estimated annual kWh is updated to: **29,500.00 kwh**
At this production rate the average annual incentive payment would be: $ 31,860.00 ***

Annual payments and gain EXAMPLE with 50 OCEC Members investing different amounts

Number of Members:		14	7	15	8	6	50
	Investments	**$ 500**	**$ 2,000**	**$ 5,000**	**$ 8,000**	**$ 10,000**	
Totals:	$ 220,000	$ 7,000	$ 14,000	$ 75,000	$ 64,000	$ 60,000	

Cost: $ 220,000

Investor % energy:	**0.23%**	**0.9%**	**2.27%**	**3.6%**	**4.5%**
% by investment level group:	3%	6%	34%	29%	27% 100%

Average Estimated: **

Annual Payments:		**$72.41**	**$289.64**	**$724.09**	**$1,158.55**	**$1,448.18**
Group: $ 31,860		$ 1,013.73	$ 2,027.45	$ 10,861.36	$ 9,268.36	$ 8,689.09
Years*	9	**$ 651.68**	**$ 2,606.73**	**$ 6,516.82**	**$ 10,426.91**	**$ 13,033.64**
	Gain	**$ 151.68**	**$ 606.73**	**$ 1,516.82**	**$ 2,426.91**	**$ 3,033.64**
% Total Return:		**30.34%**	**30.34%**	**30.34%**	**30.34%**	**30.34%**
Avg annual return:		**3.37%**	**3.37%**	**3.37%**	**3.37%**	**3.37%**

* *the incentive program ends June 30, 2020; solar system activated June 30, 2011*

** **kWh energy production will vary form year to year depending on the weather. Solar module degradation is estimated as less than 2% a year. Therefore by year 9 the installed watts could be equivalent to 19,400; then the incentive payment for that year would be estimated at $29,333. Averaging all the years under this scenario results in the 30% total return on investment.**

Special Benefits: WA Department of Revenue does not consider the incentive payment taxable. The annual payments return some of the investment cost each year, making these funds available for reuse by the investor.

Note: A member who invests, and then leaves the OCEC before the cost recovery incentive program ends, or for any reason they so choose, may sell their remaining investment to another member

Member-investors may also transfer investment to a family member who is a OCEC member or to a WA nonprofit organization that purchases power from the OCEC

*** Funds for the kWh production payments come form part of the retail excise tax the OCEC would normally pay to the WA State general fund, but is allowed instead to spend locally to boost the local economy and build renewable energy systems.