



The US Solar industry for 2010 will be \$15 billion. The Chinese government is investing 3 times that in renewable energy. No matter what your position on climate issues or fossil fuel resource depletion it is always a good business choice to diversify your portfolio.

Facts related to Solar power in South Carolina

1. North Carolina Unemployment rate 10.7% of the labor force –
Not seasonally adjusted - Nov 2009 Source: U.S. Bureau of Labor Statistics

NC RPS states:- 12.5% of 2020 retail sales with a minimum of 7.5% to be renewable based, in state generation, with 5% from energy efficiency. Municipal and Co-ops to meet 10% renewable and energy efficiency by 2018. Solar Tax Credit for NC, 35% residential, up to \$2.5million for commercial

\$3.5billion Revenue from renewable energy and energy efficiency companies in NC in 2009.

10,250 jobs in the renewable energy/energy efficiency sector.

SC Solar tax incentives 25% capped at \$3500 per year, total \$35,000.

NC gets less solar irradiance than SC. NC still gets 43% more output per MW installed than Berlin, Germany, which is the world leader in Solar installs.

National renewable energy laboratory NREL.gov/solar irradiance analysis (PV watts)

GA Solar tax credit: - \$100,000 solar thermal, \$500,000 solar photovoltaic.

5. SC total tax credits given in 2008, State wide \$132,058.
(Department of Revenue)

Estimated increased cost of electricity if SC had an RPS 2-3% by 2015
(National Association of Manufacturers report on GHG emissions reduction legislation based on cost of carbon offsets)

2010 increases in electricity cost for SC, 9.5%.
(State paper 2010)

Increased (RPS) cost of retail electricity in NC

Residential	80c a month
Commercial	\$4 a month
Industrial	\$40 a month



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NC numbers of solar install companies.	247
NC number of manufacturers	59
SC manufacturers (dsireusa.org)	0
Number of people employed by Suniva, PV manufacturer in Atlanta, GA.	100+

Solar can align its production nicely to peak power production for state and investor owned utilities. This is not a case of putting your eggs in one basket, this is a viable maturing industry that we are currently opting out of.

Applied Materials, a US based semi-conductor company invested in Solar in 2005, 2009 revenues from sales \$1.3billion dollars. Of their 10 state of the art, high tech, manufacturing facilities, none are currently in the USA. We need to change that.

The solar PV industry is in an unprecedented period of cyclic growth and contraction due to the inconsistent state and federal tax incentives and the recession respectively. Understandably, there is a wide range in the indices used to calculate resulting jobs from an investment in solar PV capacity.

In a presentation titled "Job Creation Studies in California for VOTESOLAR" the index is 20 Manufacturing jobs per MW of solar PV installed, with 13 Maintenance and Installation jobs per MW solar PV installed. (http://www.votesolar.org/linked-docs/MSR_Job_Creation.pdf)

A PV industry advocacy group, PVGroup, cites estimates of 10 jobs per MW of solar PV during production and 33 jobs per MW during installation..

(http://www.pvgroup.org/NewsArchive/ctr_031030#). The Renewable Energy Policy Project compares renewable technologies in its documentation of job indices, and projects 7 jobs per MW during construction and ongoing operations and maintenance.

(www.repp.org/articles/BGA_Repp.pdf) The City of Austin and Austin Energy published an extensive study named "Tool for Analysis of Economic Development Benefits for Solar Manufacturing and Installation" (<http://www.austinenergy.com/About%20Us/Newsroom/Reports/analysisToolEcoDevSolar.pdf>).

This study is more conservative in its estimates, and forecasts a total increase in In-state jobs of 2.9 per MW of Solar PV installed. It also references additional benefits on a per-unit basis:
Total Cumulative Gross Regional Product Increases of \$9.5 million per MW solar PV installed
Increase in Earnings of \$2.8 million per MW Solar PV installed
Sales Tax Gains of \$90,000 per MW Solar PV installed

Using the conservative numbers referenced in the Austin Study above, the Santee Cooper Solar project would result in:

A Total Increase in 0.75 In-state jobs

A Total Cumulative Gross Regional Product Increase of \$2.4 million



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An Increase in Earnings of \$0.7 million
A Sales Tax Gain of \$22,500.



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