Renewable Energy Incentives in Virginia

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Incentives, Regulations, Policies

- Public Benefit Funds 16 states
- Renewable Portfolio Standards 26 states (6 with goals)
- Net Metering 42 states
- Sales Tax Credits 22 states
- Income Tax Incentives 18 states offering total of 25 various income tax incentives
- Property tax exemptions 33 states/localities
- Grant Programs 18 state offering total of 34 various grant programs
- Rebate Programs 32 state/local/utility

Financial Incentives for Renewable Energy

Federal =	State =	Utility =	Local =	Non-Profit = 📙
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State	Personal Tax	Corporate Tax	Sales Tax	Property Tax	Rebates	Grants	Loans	Industry Support	Bonds	Production Incentives
Federal	3	4	0	0	0	3	5	1	0	1
Alabama	1				2	1	1 1			1
Alaska						1	2			1
Arizona	3	1	1	2	6		2	1		
Arkansas					1		1			
California				1	7 38 3	1	2 1 3			1 1
Colorado			2 1	1	9 1	1 1 2	1 4 2			
Connecticut			2	1	1 2	3	2 1	2		
Delaware					1	2				
Florida		2	2	1	1 10 1	1	5	1		2
Georgia	1	1	1		8		1			2
Hawaii	1	1		1	2		1 2 1	1		1
Idaho	1		1	1		1	1		1	1
Illinois			1	2	1	3 1	1		1	1
Indiana				1	4	1	1			
lowa	1	1	1	3	11	1	2 1			

Federal = State = Utility = Local = Non-Profit =

State	Personal Tax	Corporate Tax	Sales Tax	Property Tax	Rebates	Grants	Loans	Industry Support	Bonds	Production Incentives
Kentucky	1	2	1		7		1 1 1			1
Louisiana	1	1		1			2			
Maine			1		1	1	1 1			1
Maryland	3	3	2	4 7	3 1		3			
Massachusetts	2	3	1	1	2 5	4	1 1 1	1		1
Michigan				2	3	2		3		1
Minnesota			2	1	2 23	2 2	5 3			1 1
Mississippi					4		1 2			1
Missouri		1			7		1 1			
Montana	3	1		3	4	1	1	2		1
Nebraska			1		2		1			
Nevada			1	3	1		1			
New Hampshire				1	1 4		1 1			
New Jersey			1	1	5	1	2 1	1		1
New Mexico	4	3	2				1	1	1	3
New York	3	1	1	2 1	5 4 1	2	2 1	2		1

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State	Personal Tax	Corporate Tax	Sales Tax	Property Tax	Rebates	Grants	Loans	Industry Support	Bonds	Production Incentives
North Carolina	1	1	1	2	6	1	2 1			3 1
North Dakota	1	1		2			2			
Ohio		1	1	1 1	5 1	6	2 1 1	1		
Oklahoma		1			3		4 2	1		
Oregon	1	1		1	8 21	1 1	3 11	1		1 1 1
Pennsylvania	1	1		1	1 1	8 1 2	6 1 5	3		
Rhode Island	1	1	1	2	1	1	1 1			1
South Carolina	1	2	1		4		1 4			1 1 1
South Dakota				3	4		2			
Tennessee				1		2	1	1		1
Texas		1		1	19		2	1		1
Utah	1	1	1		6			1		
Vermont	1	1	1	1	1	1 1	2 1			1 2
Virginia				1			1	1		
Washington			1		17	1 1	13	1		1 3 1
West Virginia	1	1		1						
Wisconsin			1	1	3 4	1 1	2	3		5
Wyoming			1		1 3		2			
District of Columbia					1					



Virginia Renewable Incentives

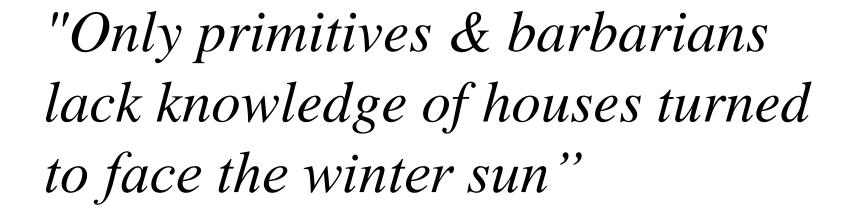
Property Tax Exemption

- Virginia allows counties and cities to exempt or partially exempt the cost of solar energy equipment from property tax.
- □ Exemption also applicable to passive solar

13VAC5-200-110.

Passive solar energy system defined

- An assembly of natural and architectural components including:
 - □ collectors [windows]
 - □ thermal storage device or devices [that travertine tile floor your spouse wants]
 - □ a transfer medium [ducts/vents]
- ...which converts solar energy into thermal energy in a controlled manner and in which no fans or pumps are necessary to accomplish the transfer of thermal energy. Fans may be used to assist the natural convective air flow in a passive air heating system.



Aeschylus

Greek Playwright 525 BC

Participating Counties & Cities:

As of 2008, a total of 19 counties and cities allow the exemption*

MATH 101

- Total Number of Counties = **95**
- Total Independent Cities = **39**

95 + 30 - 19 = Pathetic



Virginia Renewable Incentives

Property Tax Financing

Allows property owners to borrow money to pay for energy improvements and repay loan through an increased property tax assessment over a period of years.



Virginia Renewable Incentives

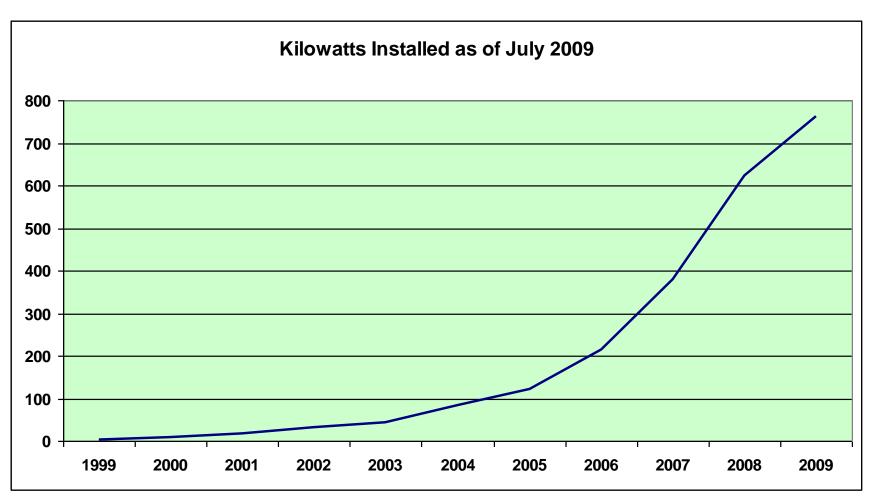
Net Metering

- Allows utility customers to get the full retail value of excess electricity generated using renewable technologies
- Limits are 10 kW residential and 500 kW nonresidential
- Allows for excess power buy-back and time-of-use metering



Interconnected . Renewables

- 202 PV installations
- 18 small wind power installations
- 763 total installed kilowatts:



The American Recovery and Reinvestment Act of 2009



Virginia's \$38 million Bundle of Joy



Where's the Money Going?

- \$10 million in Competitive Grants for Local Government and School Facilities
- \$13 million in Grants for State Government Facilities
- \$15 million for in Rebates for Residential/Commercial/Nonprofits

v.

Qualifying Products (all sectors)

- Solar thermal systems
- Photovoltaic systems
- Small wind power systems

\$15 million for Residential, Commercial and Nonprofit Rebates

- Divided (flexibly) between solar thermal, wind and PV.
 - □\$2.00 per watt for PV
 - □\$1.50 per watt small wind
 - □\$1.00 per watt (equivalent) solar thermal

PV Rebate Amounts

- Residential: 10 kW for PV and wind (based on Va. Net metering limits).
- Commercial/Nonprofit:
 - □ \$2.00/watt for 1-10 kilowatts
 - □ \$1.75/watt 10-20 kW
 - □ \$1.50/watt 20-30 kW
 - □ \$1.25/watt 30-40 kW
 - □ \$1.00/watt 40 kW up to maximum of 200 kilowatts.



Minimum Program Requirements

- Solar thermal: certified to meet the Solar Ratings and Certification Corporation's (SRCC) OG-300 Operating Guidelines and Minimum Standards for Certifying Solar Water Heating Systems.
- Larger scale systems must utilize collectors certified to meet the SRCC's
 OG-100 Operating Guidelines for Certifying Solar Collectors
- **Photovoltaic:** grid-interconnected and which meet all state requirements under Virginia's "net metering" regulations.
- Wind power: grid-interconnected and which meet all state requirements under Virginia's "net metering" regulations.
- must include the manufacturer's wind speed performance curves
- All wind power projects will be reviewed by DMME or contractor to evaluate the technical merits of the project based on a number of factors including average wind speed, turbine technology, etc.



Solar/Wind Installer Requirements.

- Must be licensed contractors registered with all relevant agencies to legally perform business in the Commonwealth.
- No homeowner do-it-yourself allowed



- Awarded first come first served basis
- Retroactive back to June 26, 2009 BUT:
 - □ Retroactive installations must comply with all program rules in place for new installations!
- All ARRA funds must be committed to projects by late in 2010 and fully spent by April 30, 2012

www.dmme.virginia.gov

Questions?