

State Clean Energy Policy Update

Presented by Erin Noble

Renew Missouri

Advancing Efficiency and Renewable Energy

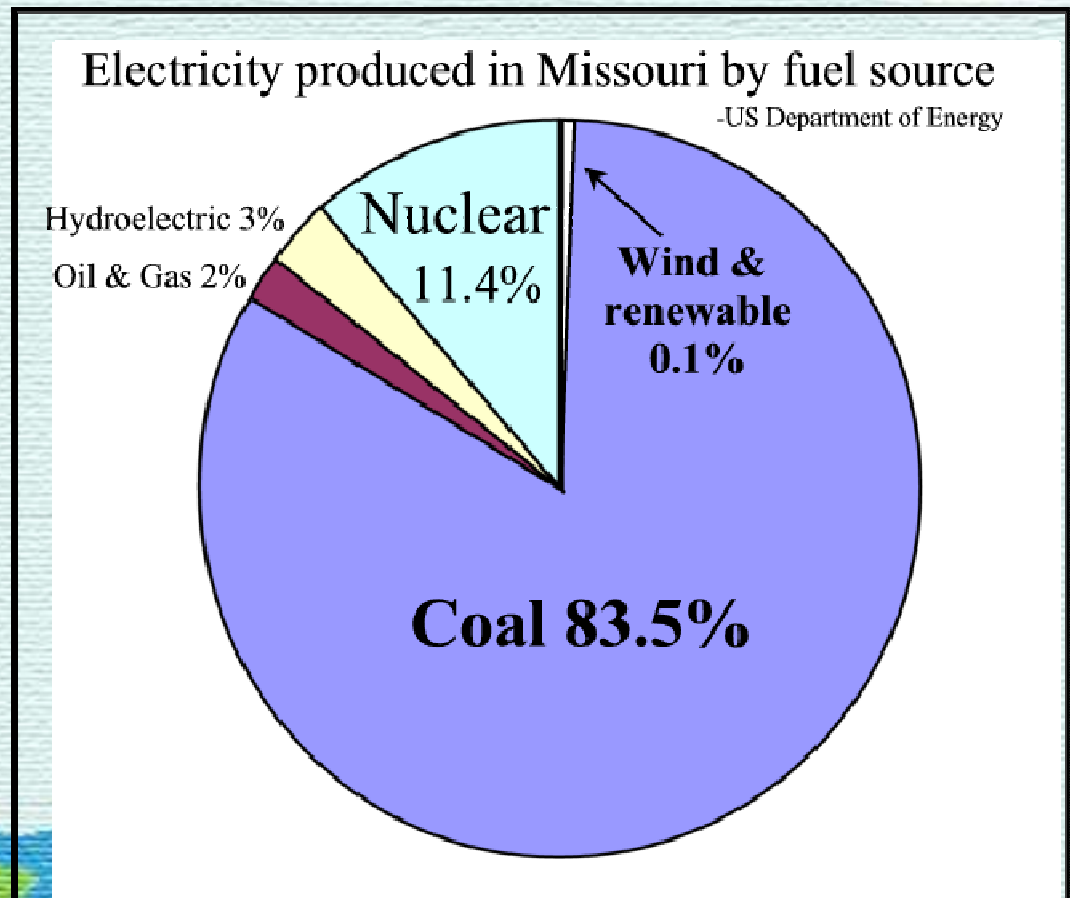
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Missouri's Electricity Portfolio

In 2005, only 0.1% of Missouri's electricity came from renewable sources.

Over 85% comes from coal – all imported from out of state, at a cost of over \$1 billion a year.



Missouri Renewable Rank: 48th or 49th in the nation

Table 1. Total On-Grid Renewable Energy Generation (2006)

Rank	State	MWh	Rank	State	MWh
1	Washington	84,510,138	29	Colorado	2,687,435
2	California	71,937,993	30	Oklahoma	2,636,500
3	Oregon	39,720,153	31	New Hampshire	2,275,311
4	New York	29,951,143	32	Vermont	1,968,575
5	Idaho	11,941,587	33	North Dakota	1,894,063
6	Alabama	11,157,527	34	West Virginia	1,746,190
7	Montana	10,654,250	35	Wyoming	1,602,377
8	Texas	8,495,704	36	Mississippi	1,541,083
9	Tennessee	8,273,774	37	New Mexico	1,475,532
10	Maine	8,252,216	38	Connecticut	1,307,212
11	Arizona	6,846,471	39	Alaska	1,231,058
12	Georgia	6,011,830	40	Nebraska	1,206,647
13	North Carolina	5,673,914	41	Ohio	1,030,831
14	Pennsylvania	5,322,011	42	Illinois	1,022,125
15	Florida	4,575,897	43	Kansas	1,001,539
16	Michigan	3,972,381	44	Utah	952,280
17	Virginia	3,832,692	45	New Jersey	952,220
18	Louisiana	3,744,242	46	Hawaii	737,729
19	South Carolina	3,643,822	47	Indiana	709,829
20	Minnesota	3,629,208	48	Missouri	222,117
21	South Dakota	3,545,798	49	Rhode Island	154,822
22	Nevada	3,401,337	50	Delaware	*
23	Iowa	3,364,068	50	American Samoa	*
24	Arkansas	3,252,360	50	D.C.	*
25	Kentucky	3,051,091	50	Guam	*
26	Wisconsin	3,027,307	50	Northern Marianas	*
27	Massachusetts	2,791,473	50	Puerto Rico	*
28	Maryland	2,733,517	50	Virgin Islands	*

Source: EIA 2008

*Less than 500 kilowatt hours (kWh) total renewable electricity generation, or data unavailable

Table 3. Percentage of Total State Electricity Generation: All Renewable Resources (2006)

Rank	State	% Total State Gen.	Rank	State	% Total State Gen.
1	Idaho	89.2%	29	New Mexico	4.0%
2	Washington	78.1%	30	Nebraska	3.8%
3	Oregon	74.5%	31	Connecticut	3.8%
4	South Dakota	49.7%	32	Oklahoma	3.7%
5	Maine	49.1%	33	South Carolina	3.7%
6	Montana	37.7%	34	Wyoming	3.5%
7	California	33.2%	35	Michigan	3.5%
8	Vermont	27.8%	36	Mississippi	3.3%
9	New York	21.1%	37	Kentucky	3.1%
10	Alaska	18.4%	38	Rhode Island	2.6%
11	Nevada	10.7%	39	Pennsylvania	2.4%
12	New Hampshire	10.3%	40	Utah	2.3%
13	Tennessee	8.8%	41	Kansas	2.2%
14	Alabama	7.9%	42	Texas	2.1%
15	Iowa	7.4%	43	Florida	2.0%
16	Minnesota	6.8%	44	West Virginia	1.9%
17	Arizona	6.6%	45	New Jersey	1.6%
18	Hawaii	6.4%	46	Ohio	0.7%
19	Arkansas	6.2%	47	Indiana	0.5%
20	North Dakota	6.1%	48	Illinois	0.5%
21	Massachusetts	6.1%	49	Missouri	0.2%
22	Maryland	5.6%	50	Delaware	0.0%
23	Colorado	5.3%	50	American Samoa	0.0%
24	Virginia	5.2%	50	D.C.	0.0%
25	Wisconsin	4.9%	50	Guam	0.0%
26	North Carolina	4.5%	50	Northern Marianas	0.0%
27	Georgia	4.4%	50	Puerto Rico	0.0%
28	Louisiana	4.1%	50	Virgin Islands	0.0%



The Easy Connection Act

Effective since October 1, 2008

Simple Interconnection

Easy: Simple application form

Free: No fee to apply (under 10kW)

Quick: Under 10kW

Utility approves within 30 days

No special insurance requirement

10kW-100kW

Utility approves within 90 days

\$100,000 insurance requirement

Uniform rules

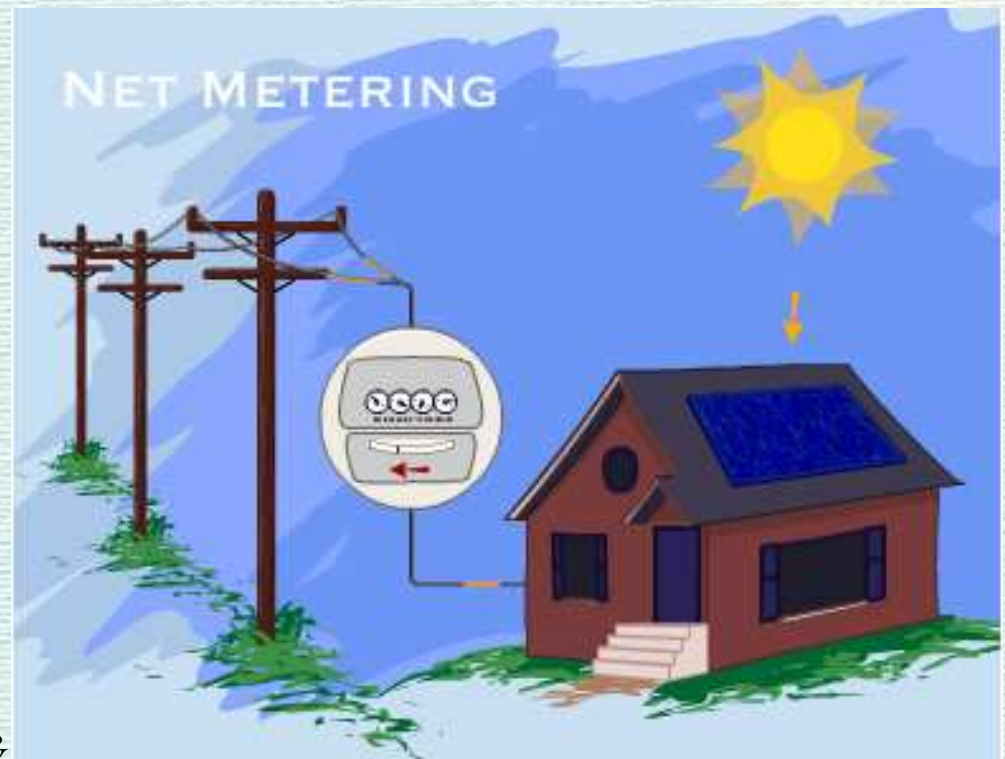
Statewide Law

Same rules apply to all Missouri utilities

True 1-for-1 Net Metering

Receive credit on electric bill for all solar & wind electricity put onto grid

Credit for up to 100% of your monthly usage



Missouri Renewable Electricity Standard

2008 Statewide Ballot Initiative

Renew Missouri lead to effort to gather 170,000 signatures to put Prop C on the 2008 ballot.

Requires investor-owned utilities to get at least 15% of their electricity from clean energy by 2021.

Passed with 66% majority.

Includes a solar rebate that decreases the cost of a solar installation by 25%.



Solar carve-out in Missouri RES (Prop C)

- Requires 2% of the required RES be Solar

Compliance Year	Non-Solar requirement	Solar Requirement	Total Renewable Requirement
2011-2013	1.96%	0.04%	2.0%
2014-2017	4.9%	.1%	5.0%
2018-2020	9.8%	.2%	10.0%
2021 and after	14.7 %	.3%	15.0%

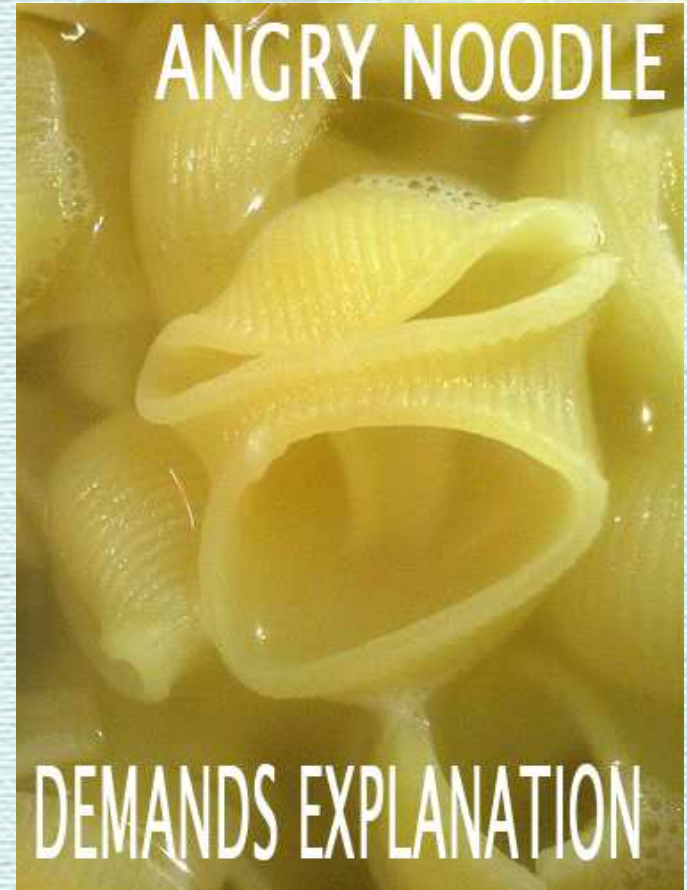
Solar in Missouri cheaper than ever

- Federal Renewable Energy Tax Credit: **30% of the system cost**
 - Solar Electric (Photovoltaics)
 - solar water heating
 - small wind (100 kW max)
 - fuel cells
 - geothermal heat pumps (residential)
- Prop C **\$2.00/watt rebate** for solar PV, capped at \$50,000 for customers within Investor-Owned Utilities territory
- Price of solar panels has decreased by over **50% in the last 2 years**

Learn about all incentives at
www.dsireUSA.org

JCAR weakens the Missouri RES

- Joint Committee on Administrative Rules attempts to remove geographic sourcing
- Now utilities can satisfy the RES by buying credits from anywhere.
- At stake? 9,000 jobs and \$2 billion dollars the RES was expected to create.
- Missouri General Assembly must protect in-state renewable energy development



Formation of MOSEIA

- MOSIEA'S mission:
to strengthen and expand the solar industry and establish a sustainable energy future for all Missourians.
- Meant to be an organization of dependable solar installers.
- Members testified on behalf of PACE and Prop C
- Formed in early June 2009.
- Currently: 22 members



Property Assessed Clean Energy (PACE)

Eliminate Barrier of Up-Front Financing Barrier for EE & RE:

Upgrades like insulation, HVAC systems, solar electric systems, geothermal heat pumps are repaid over a 20 year period through a special assessment on property tax.

The first commercial PACE financed program in Missouri is expected in 2011.



Residential PACE halted by FHFA



- All currently active residential PACE programs have been suspended.
- PACEnow.org and VoteSolar.org leading the effort to overcome this barrier.
- Call Federal Delegation – Esp Senator Bond.

Renew Missouri Next Steps



- Stop JCAR's interference in RES rule
- Help overcome the hold on residential PACE
- Help Missouri commercial PACE programs launch effectively
- Improve net metering for solar
- Improve interconnection for Combined Heat and Power

Your Help Needed

Ask your Representatives and Senators to vote
No on the effort to Gut the Missouri RES.

- Uphold the will of voters
- Create RE jobs and investment in-state.

Renew Missouri is a member supported non-profit. Helps us continue to advance clean energy in Missouri:

Join Today at RenewMO.org

Thanks!

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Renew Missouri is a project of the Missouri Coalition for the Environment, a 501(c)3 non-profit organization.