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Renewable Energy Scorecard

For:

Norfolk County, Virginia

Honeywell

Norfolk, Virginia

Energy: Conventional

Electric	\$82.80 MWh
Gas	\$10.91 MMBTU
Oil	\$15.21 MMBTU

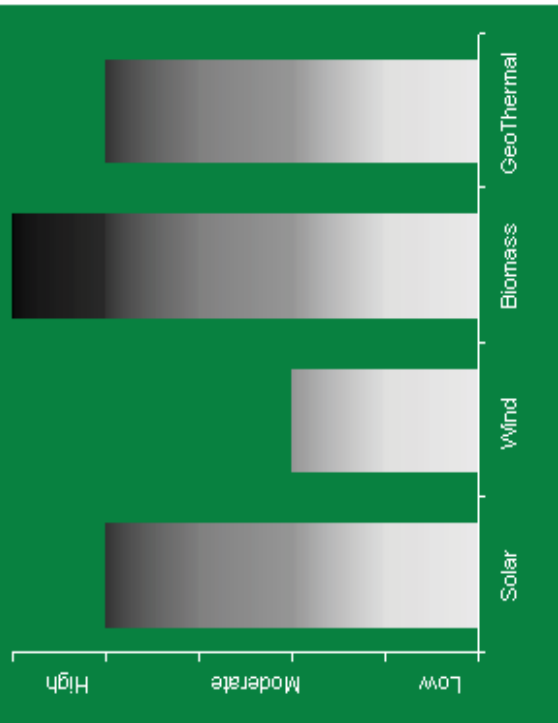
Local Attributes

Heating Degree Days	3,418 HDD °F
Cooling Degree Days	1,310 CDD °F
Ave. Air Temp.	58.0 °F
State Rebates	YES
Federal Rebates	YES

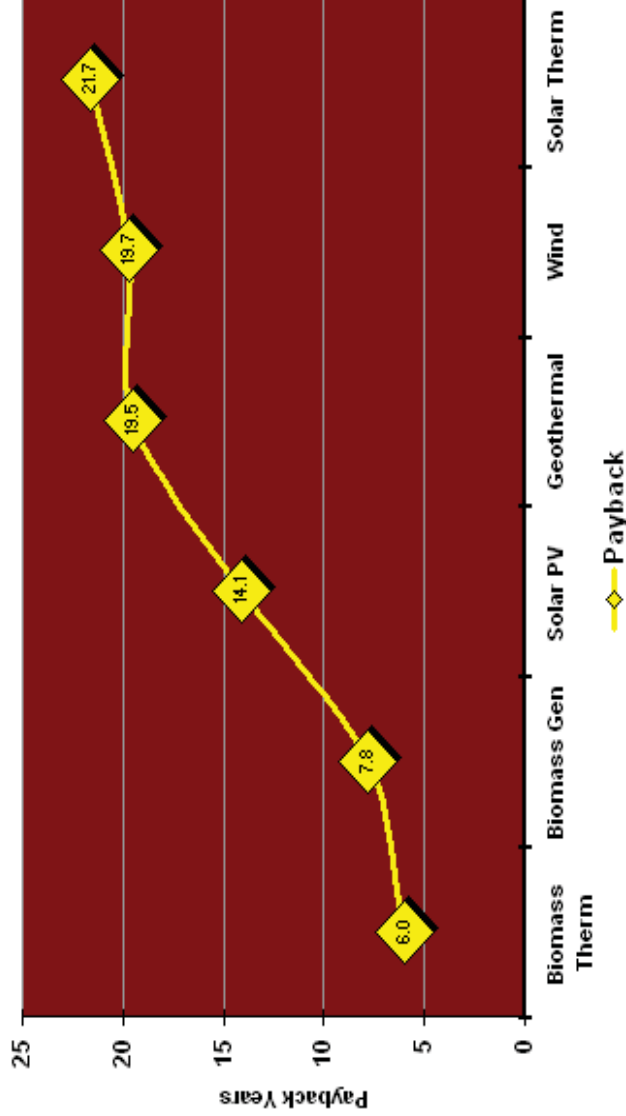
Energy: Renewable

Wind	4.3 Meters / Second
Biomass	1,091.8 Tons / Mile ²
Solar	5.1 Daily kWh / Meter ²
Geothermal	14.3 Mean Earth °C

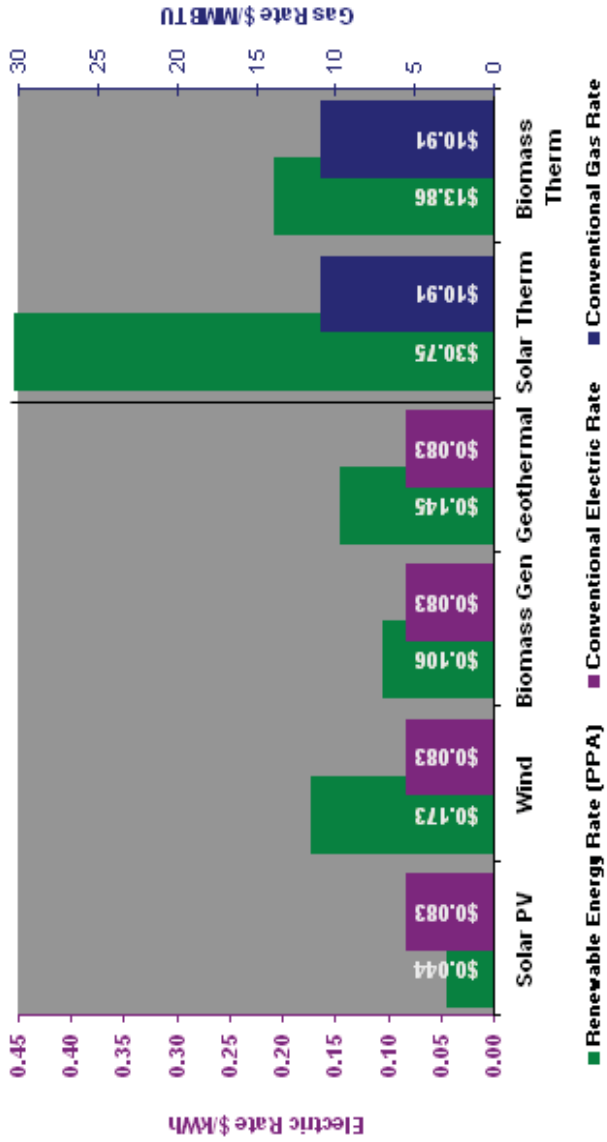
Renewable Resource Potential



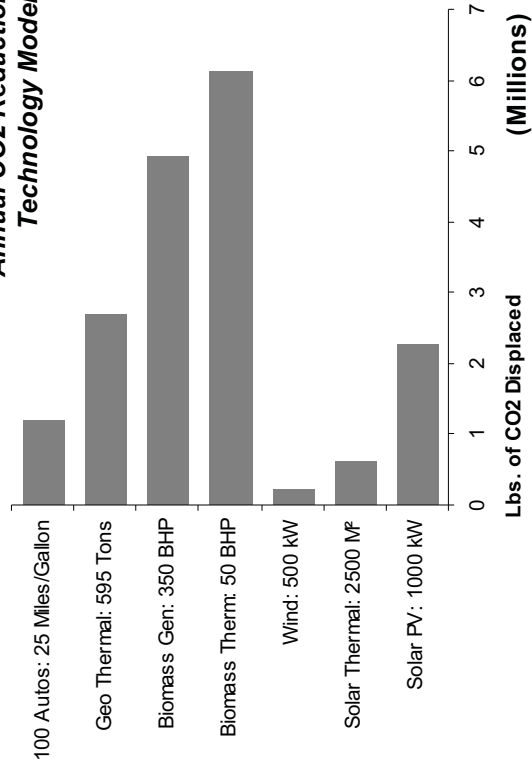
Technology's Simple Payback



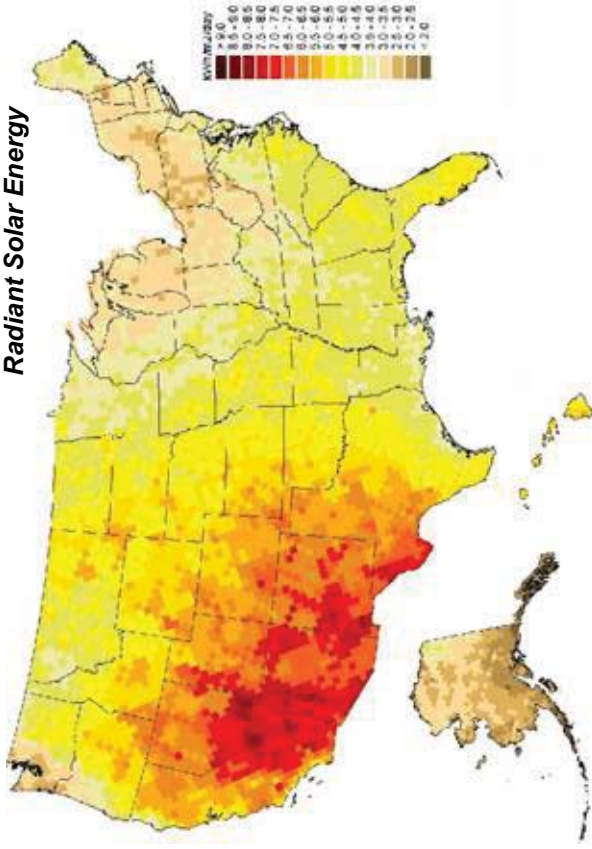
Renewable Energy Rate (PPA) versus Conventional Energy Rate



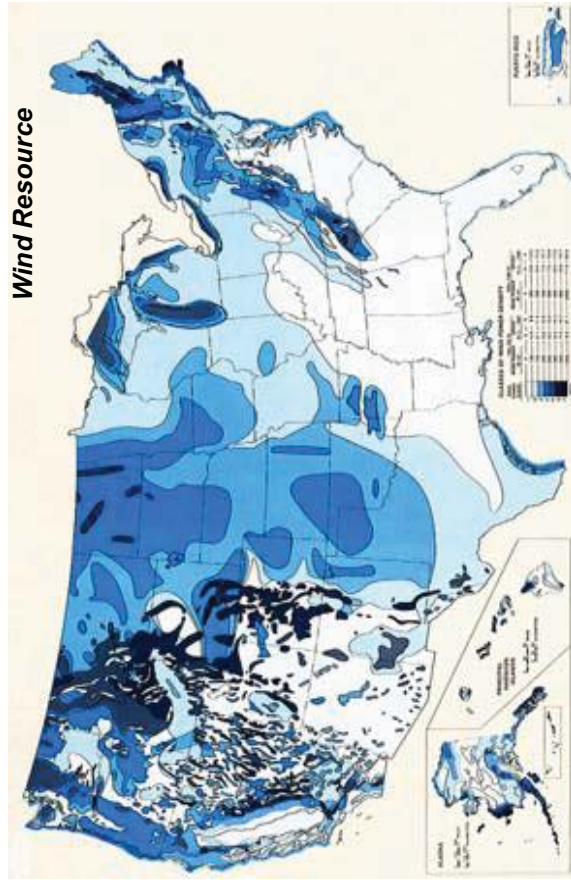
Annual CO2 Reduction by Technology Model



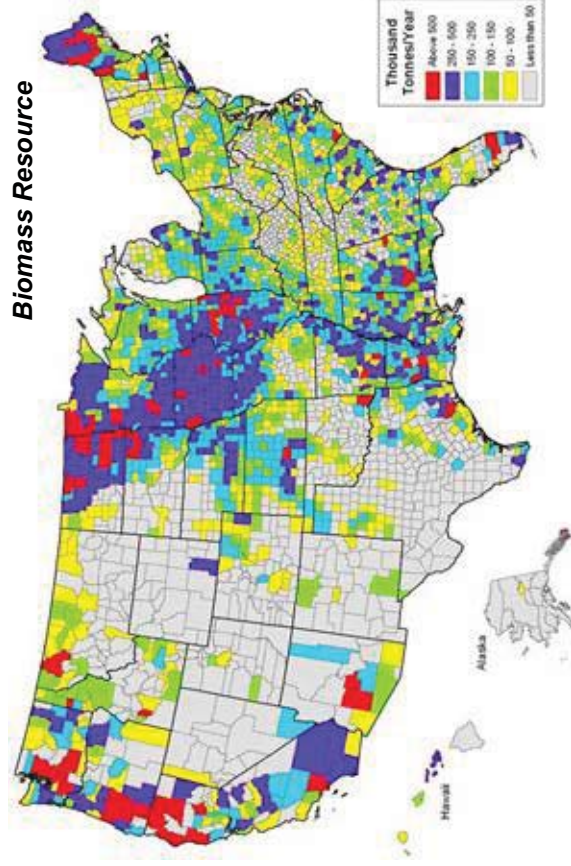
Radiant Solar Energy



Wind Resource

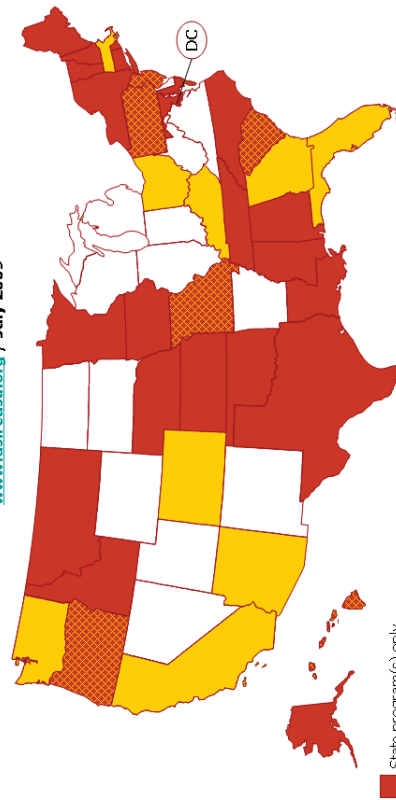


Biomass Resource



Loan Programs for Renewables

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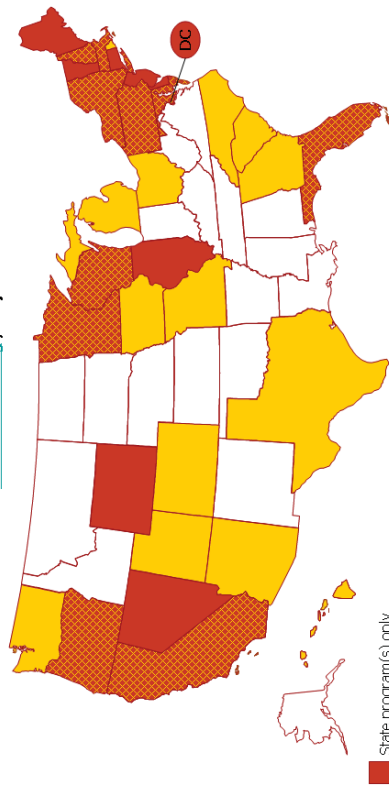


- State program(s) only
- Utility and/or local program(s) only
- State program(s) + utility and/or local program(s)

Note: This map does not include loan programs for geothermal heat pumps or other energy efficiency technologies.

Rebate Programs for Renewables

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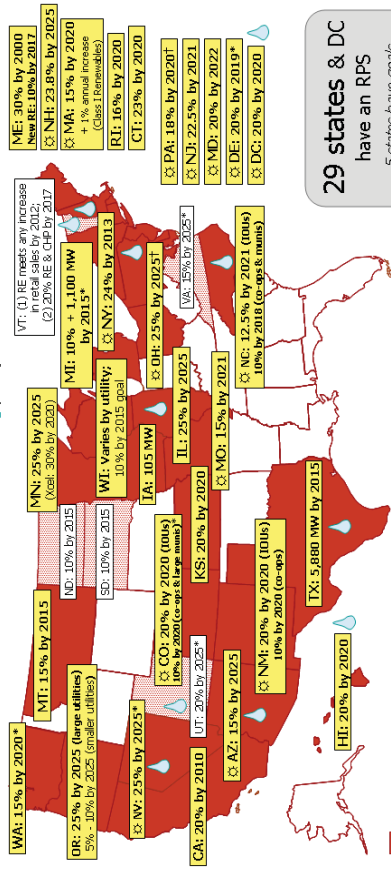


- State program(s) only
- Utility and/or local program(s) only
- State program(s) + utility and/or local program(s)

Notes: This map does not include rebates for geothermal heat pumps or other energy efficiency technologies. The Virgin Islands also offers rebates for certain renewable energy technologies.

Renewable Portfolio Standards

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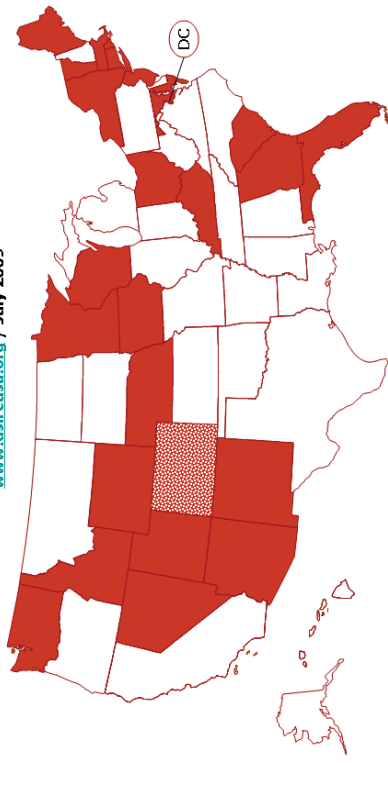
29 states & DC have an RPS
5 states have goals

- State renewable portfolio standard
- State renewable portfolio goal
- ▲ Solar water heating eligible
- ☀ Minimum solar or customer-sited requirement
- * Extra credit for solar or customer-sited renewables
- † Includes separate tier of non-renewable alternative resources

- WA: 15% by 2020*
- MI: 15% by 2015
- OR: 25% by 2025 (large utilities) 5% - 10% by 2025 (smaller utilities)
- WV: 25% by 2025*
- CA: 20% by 2010
- AZ: 15% by 2025
- CO: 20% by 2020 (0.015) (10% by 2020 (co-ops & large firms))
- UT: 20% by 2025*
- MT: 25% by 2025 (coal: 30% by 2020)
- ND: 10% by 2015
- SD: 10% by 2015
- IA: 10.5 MW
- IL: 25% by 2020
- MO: 15% by 2021
- NC: 12.5% by 2021 (0.015) 10% by 2020 (co-ops)
- TX: 5,880 MW by 2015
- HI: 20% by 2020
- VT: (1) RE meets any increase in retail sales by 2012; (2) 20% RE & CHP by 2017
- ME: 10% + 1,100 MW by 2015*
- WI: Varies by utility; 10% by 2015 goal
- NY: 24% by 2013
- OH: 25% by 2025†
- VA: 15% by 2025*
- NE: 30% by 2000 New RE: 10% by 2017
- NH: 23.8% by 2025
- MA: 15% by 2020 + 1% annual increase (Class I Renewables)
- RI: 16% by 2020
- CT: 23% by 2020
- PA: 18% by 2020†
- NJ: 22.5% by 2021
- MD: 20% by 2022
- DE: 20% by 2019*
- DC: 20% by 2020

Sales Tax Incentives for Renewables

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- State exemption or deduction
- State exemption + local governments (option) authorized to offer exemption or deduction
- State exemption + local governments (option) authorized to offer exemption or deduction

Notes: This map does not include sales tax incentives that apply only to geothermal heat pumps or other energy efficiency technologies. Puerto Rico also offers a sales tax exemption for some renewable energy systems.