

Green Priority



Enhance the City's efforts to reduce its impact on the environment and provide leadership in the community to encourage residents and businesses to join this effort.

Renewable Energy

- 180kW of Photovoltaics (PV) on Downtown Events Center
- 30kW of PV at Parking Gallery
- Nine wind turbines at four sites (City Hall, Parking Gallery, Rosewood Lakes, Stead Treatment Plant)



City Wall Wind



Downtown Parking Gallery



Stead Water Treatment Plant



Energy Conservation

- Phase 2 to come before Council with additional \$16,000,000
- ~\$6,000,000 @ City Hall
- Replacing lighting, control, boilers
- Automatic shut off of computers



Reno Arch-2,076 bulbs to LED



Environmental Benefits

Greenhouse Gas Reduction from 5.4 M kWh and 225 K Therm Savings

- Carbon Dioxide (CO₂) Eliminated (lbs) = **13,700,000**
- Sulfur Dioxide (SO₂) Eliminated (lbs) = **26,000**
- Nitric Oxide (NO_x) Eliminated (lbs) = **25,000**

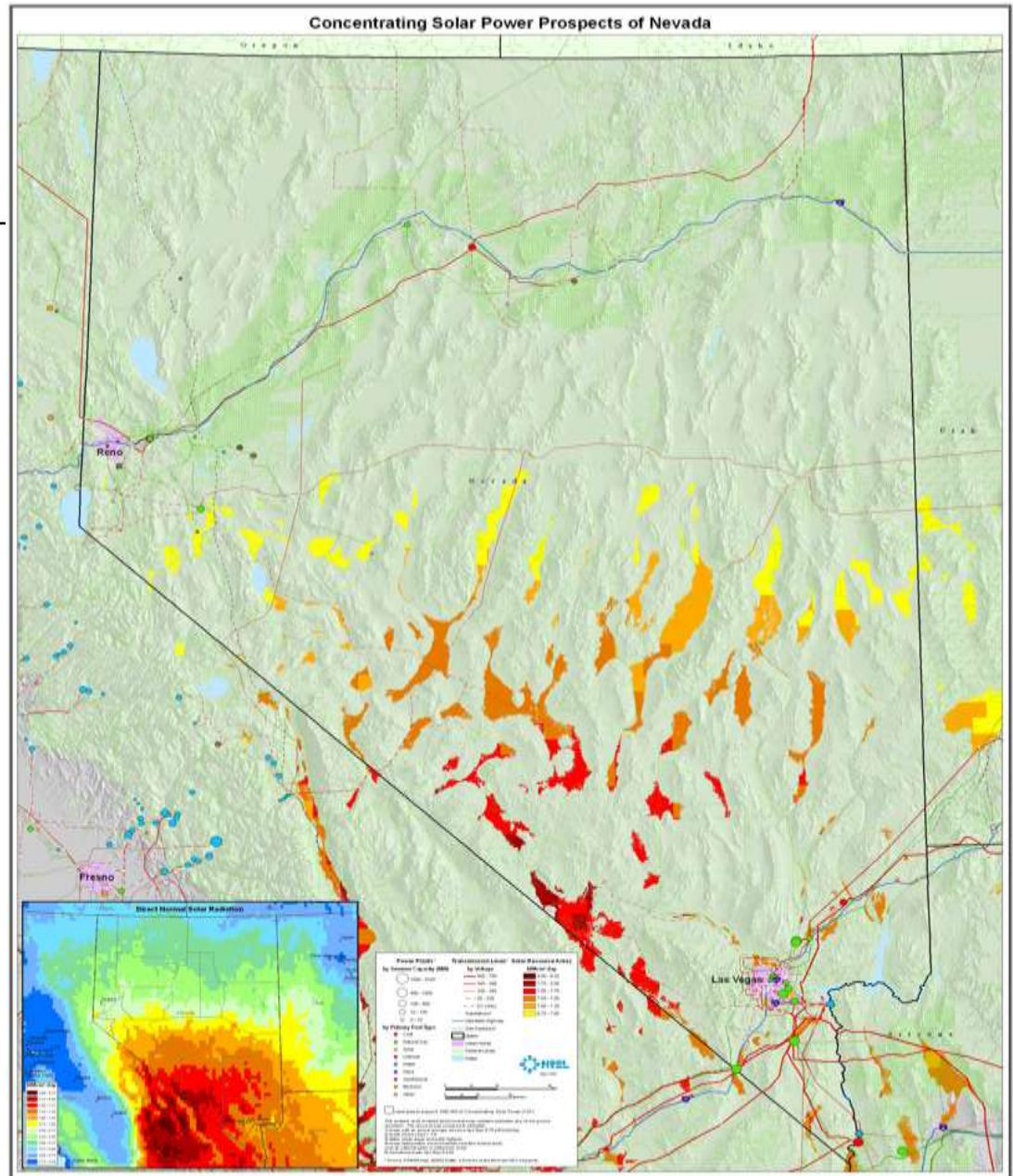
Reduction is Equivalent to the CO₂ Emissions From:

- 1,563** annual passenger cars
- 1,130** household electricity use



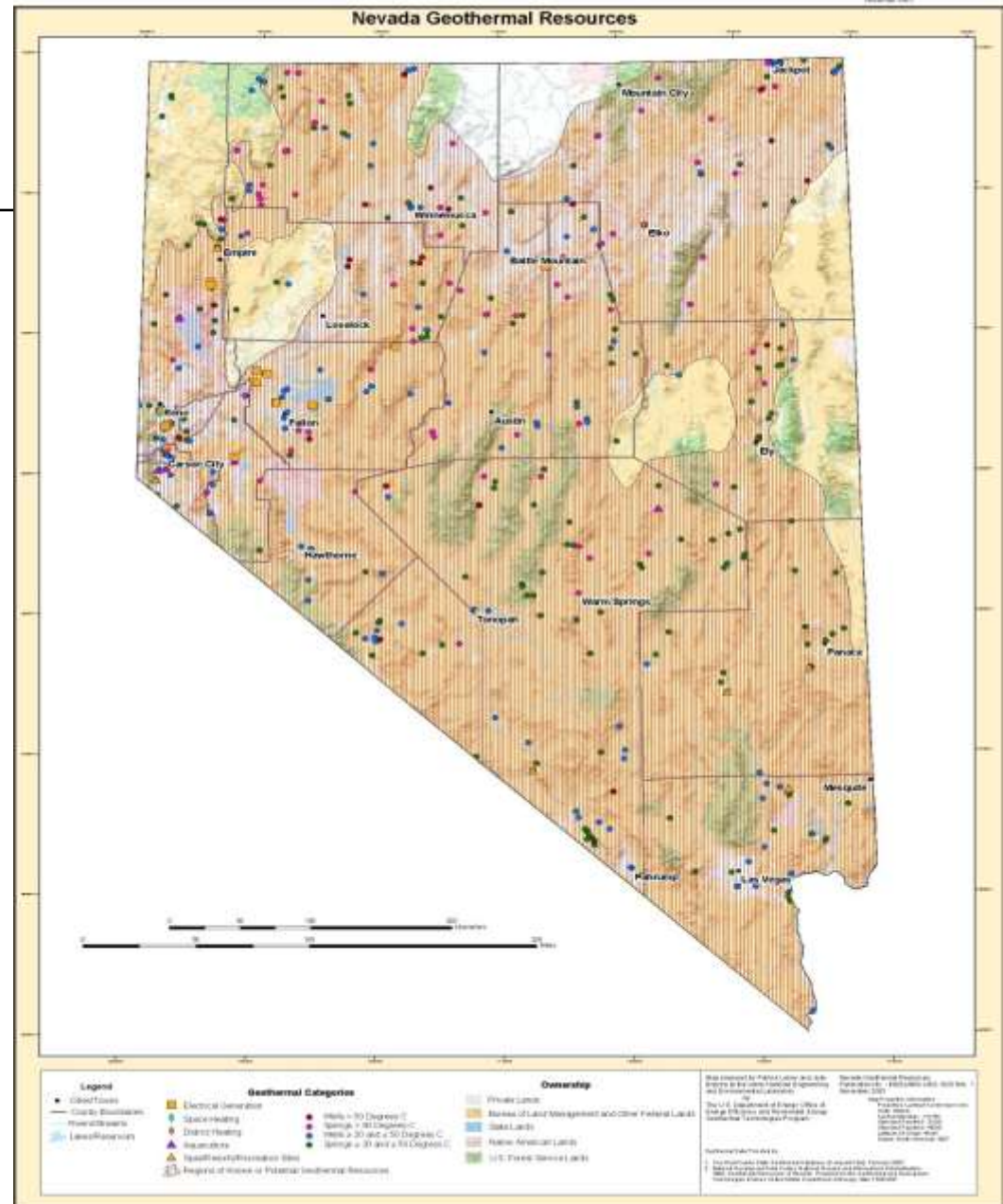
SOLAR

- Nevada ranks first in solar resources with an average of 300 days of sunshine per year.
- Nevada is number 2 in solar development with largest solar PV and solar thermal systems.



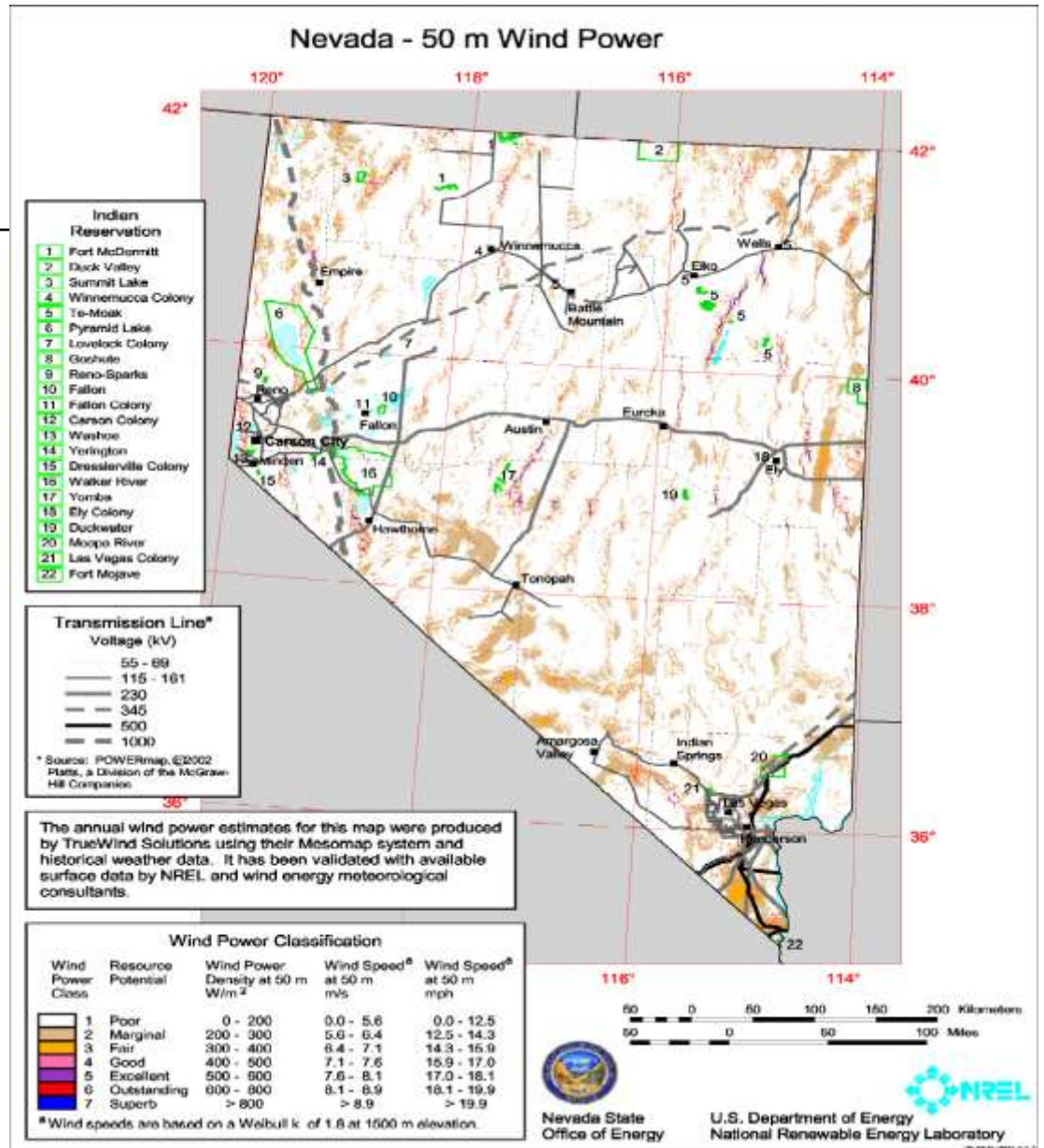
GEOTHERMAL

- Nevada ranks first in geothermal resources with ~300 MW being produced or under development with the potential for up to 3,700 MW. Geothermal energy is a clean, constant source of baseload energy with only minimal emissions

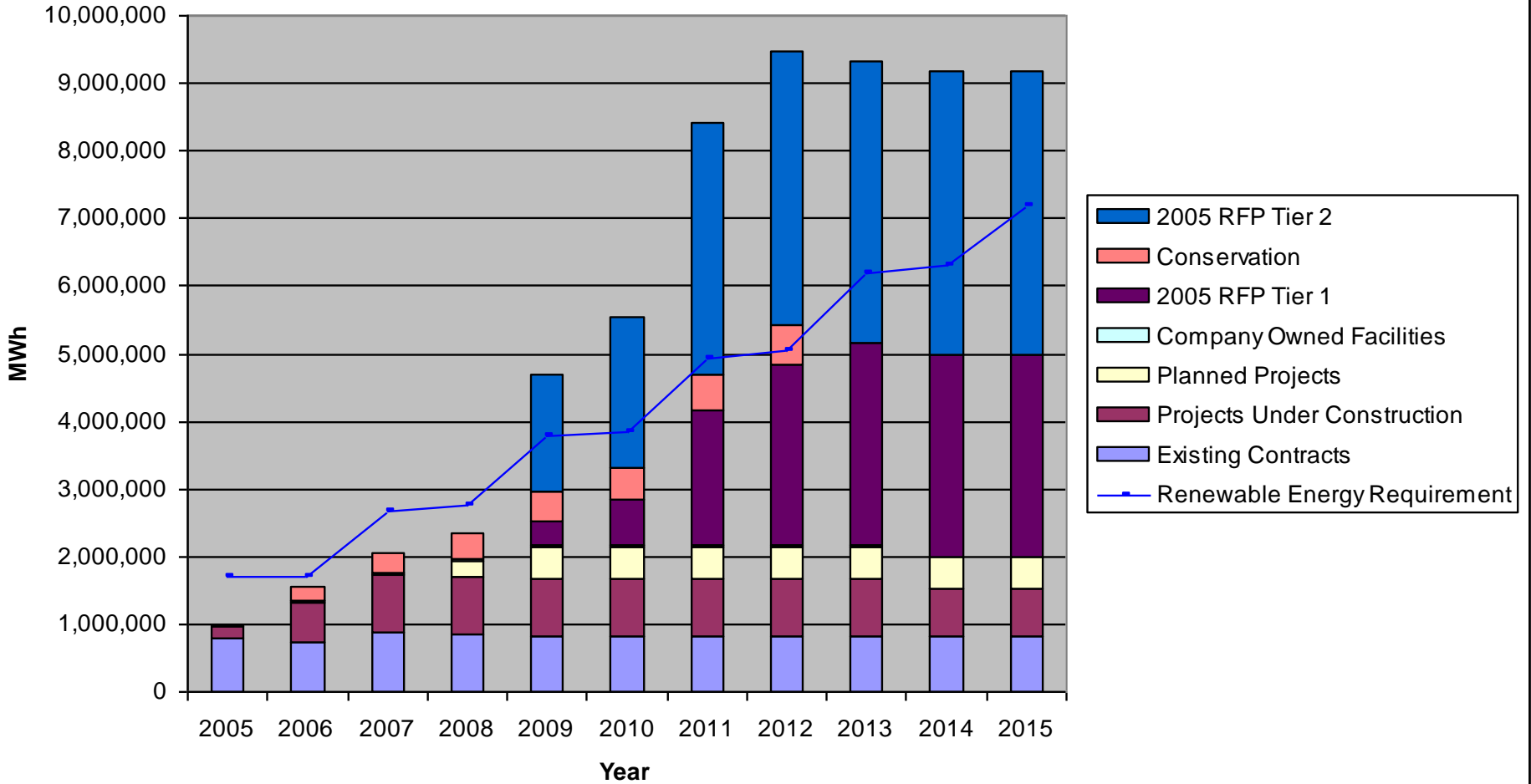


WIND

- Nevada has over 24 million acres of land within 10 miles of an existing transmission line classified as good to outstanding for wind development. Nevada has potential to generate 63 million megawatt/hours.
- Wind power is



NV Energy Renewables



RTC H2Fuel Program

Geothermal power generation



RTC H2Fuel Program

H₂ production
by electrolysis





Vehicles 2005-2009: HCNG IC



Vehicles 2007+: HICE/electric hybrid



Vehicles 2010+: H₂ fuel cell/electric hybrid



Questions

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Blogs at Around the Arch