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Nevada: Renewable Energy Demand, Supply, and Exportation

RETI 2.0 Western Outreach
Las Vegas Workshop



Governor's Office of Energy

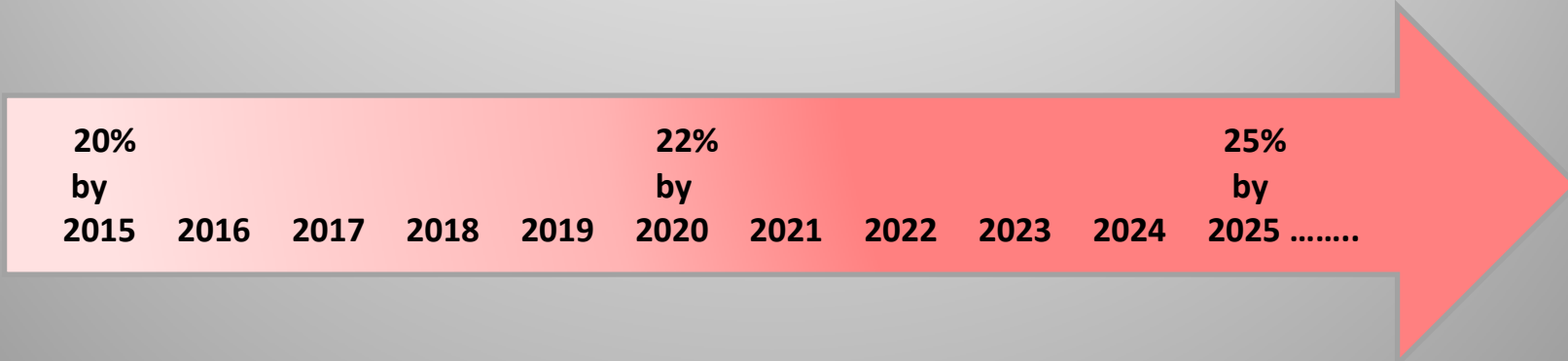
Angie Dykema
Director

September 1, 2016



Renewable Demand: RPS Mandate

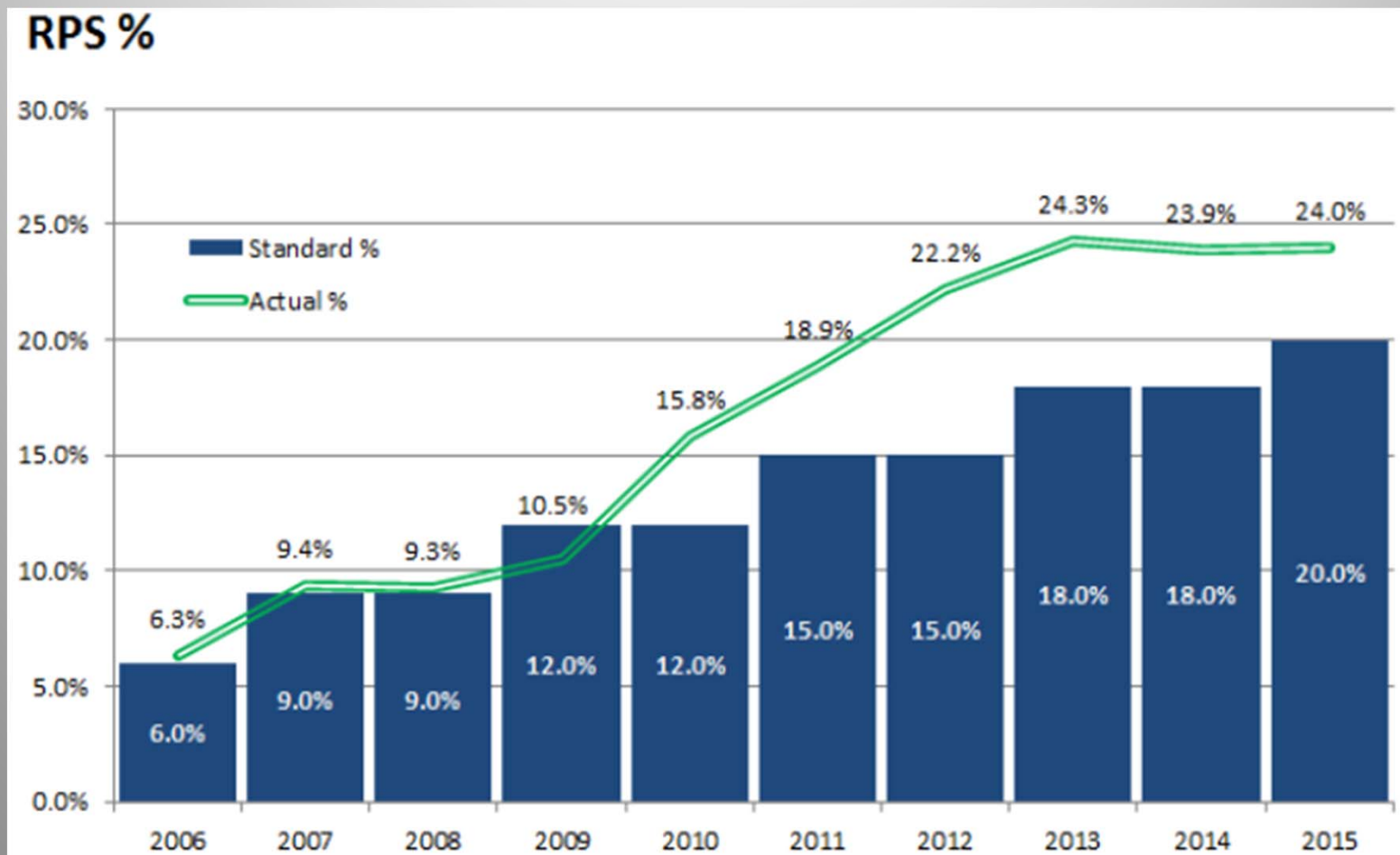
- In 1997, Nevada passed a Renewable Portfolio Standard (RPS).
- The % of renewable energy required by the RPS is 25% in 2025.



- Included within the RPS is a requirement that at least 5% of the total renewable energy in the portfolio must be generated by solar facilities through 2015, and at least 6% by solar by the beginning of 2016.



Renewable Demand: RPS Compliance



Source: NV Energy



Renewable Demand: Emissions Reduction & Capacity Replacement Plan

- In 2013, Senate Bill 123 was adopted. This legislation moved the State away from coal and into renewable energy resources.
- SB 123 required the retirement or elimination of 800 MW of coal-fired electric generating plants by December 31, 2019.

Results:

- 2014 - 100 MW Boulder Solar Project, Price Per kWh: **4.6 cents**
- 2015 - 100 MW Playa Solar 2, Price Per kWh: **3.9 cents**
- 2016 - 100 MW Techren Solar Project, Price Per kWh: **3.4 cents**

- 15 MW Nellis Air Force Base
- **35 MW remaining**



Renewable Demand: Renewable Energy Tax Abatement

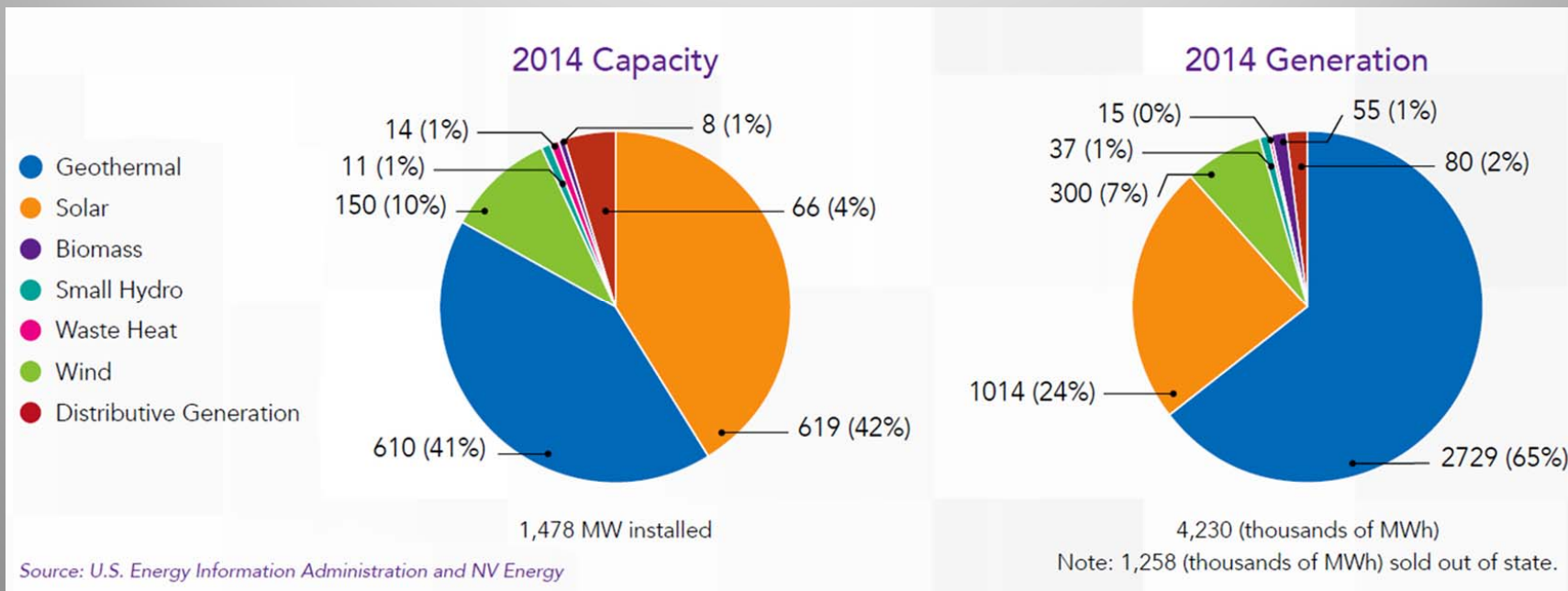
- Awards partial sales and use tax and / or partial property tax abatements to renewable energy producers.
- Eligibility: 50% Nevada workers, pay 175% Nevada's average wage, offer health care benefits to workers and dependents.
- Since program's inception:
 1. Nevada's investment of **\$696 million** has attracted **\$6.8 billion** in capital investment, payroll, and taxes paid, representing a **10-to-1** return on Nevada's investment.
 2. Over 4,400 jobs created.
 3. Total of 30 renewable power plants operating in NV; 1 transmission project.





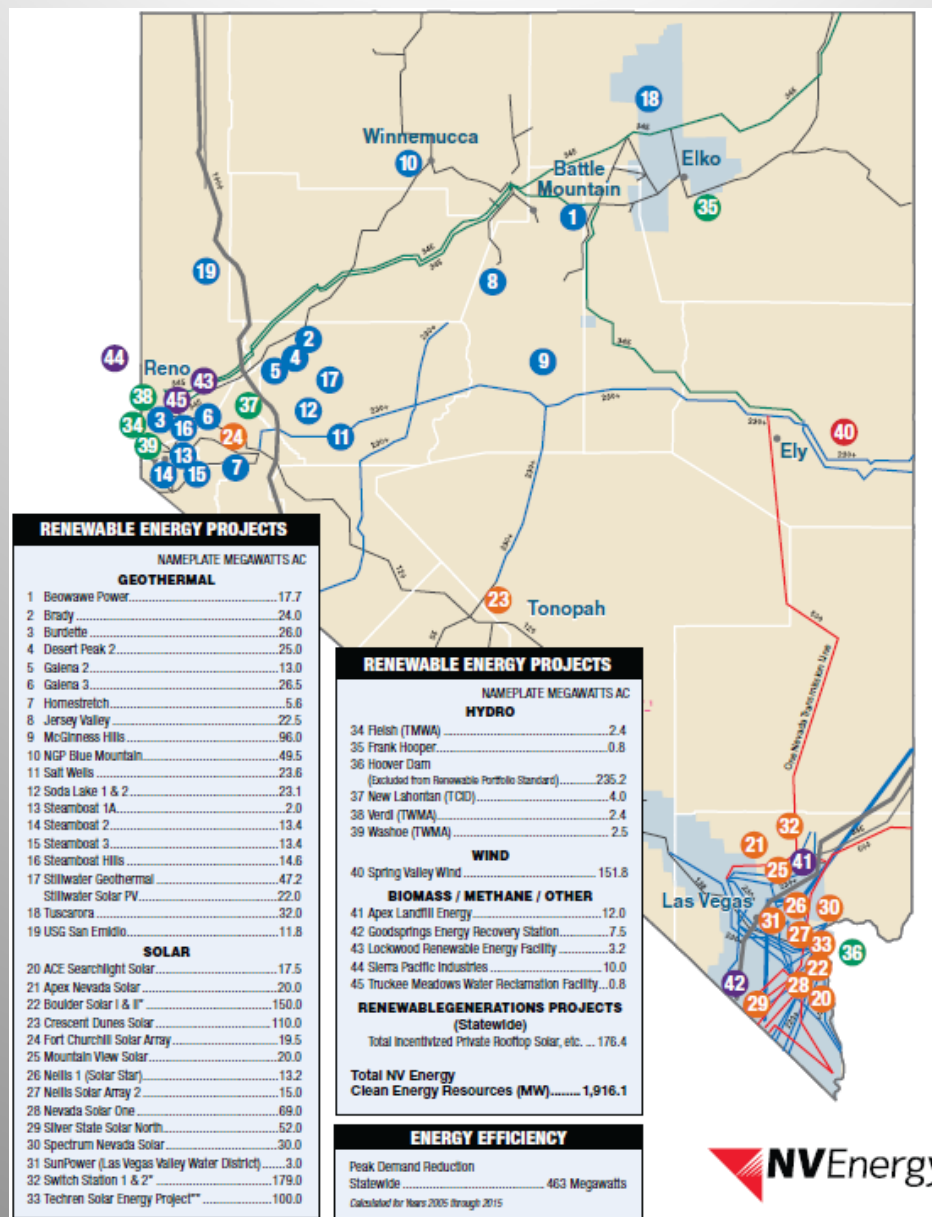
Renewable Supply

- Nevada's renewable generation has grown from 9% in 2008 to more than 18% today.





Renewable Supply

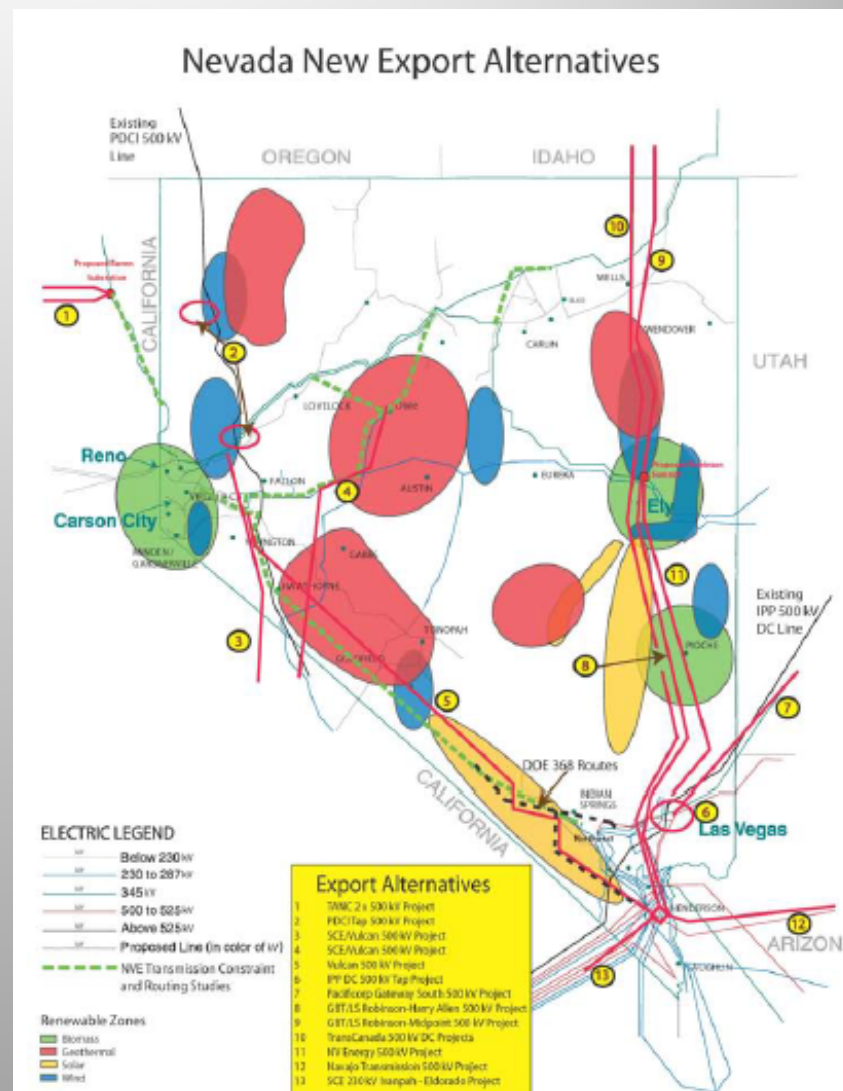
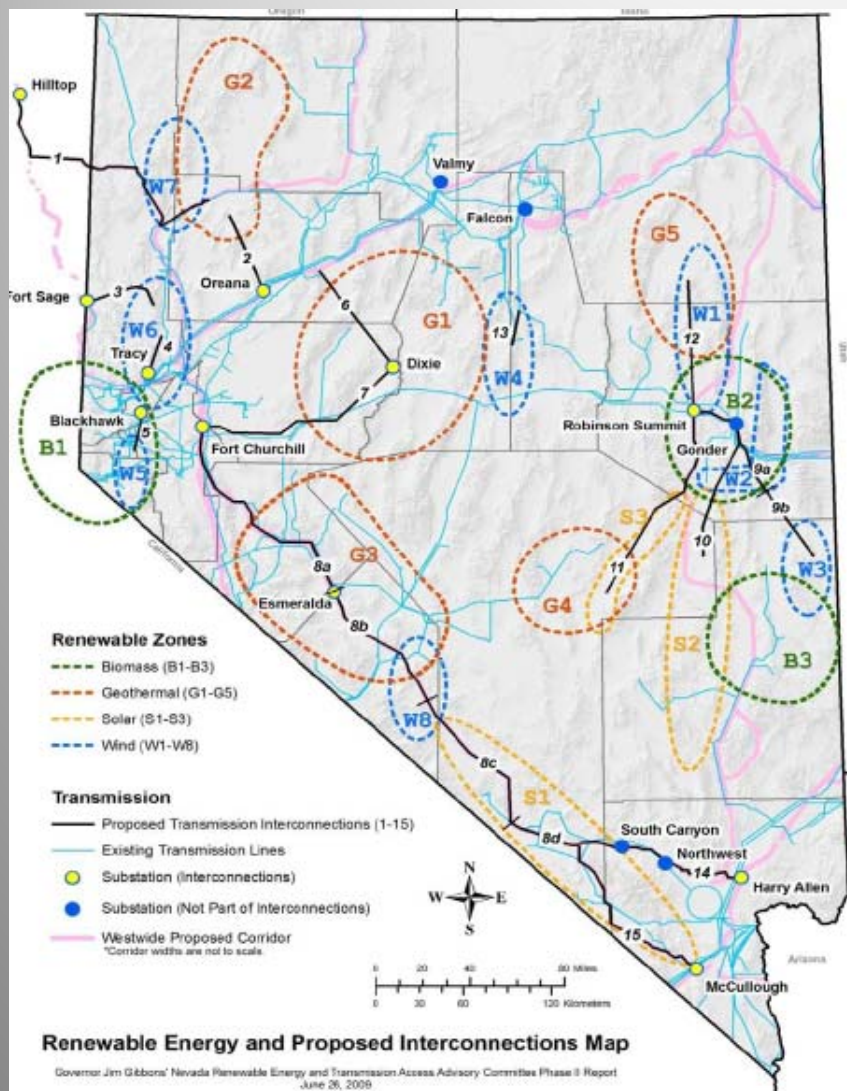


2016





Exportation





Transmission & Exportation

- 231-mile One Nevada Transmission Line completed in January 2014.
- 60-mile Harry Allen – Eldorado kW Transmission Line, a 500 kV line in southern Nevada, will improve system reliability and accelerate the integration and exportation of Nevada's renewable resources.



Citation: NV Energy



Citation: U.S. Department of Interior