Nevada's Clean Energy Market Potential

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It is Sunny Here!

According to the National Renewable Energy Lab (NREL):

"With today's commercial systems, (in 2003) the solar energy resource of **a 100-by-100-mile area** [10,000 square miles] **of Nevada could supply the United States with all of its electricity."**

Source: http://www1.eere.energy.gov/solar/pdfs/32529.pdf

Regional Energy Consumption & Expenditures

2,039 trillion BTU
$26,509 million

997 trillion BTU
$14,879 million

7,684 trillion BTU
$136,936 million

530 trillion BTU
$6,963 million

831 trillion BTU
$11,005 million

1,415 trillion BTU
$22,785 million

Total:
13,496 trillion BTU
$219,077 million

Data source: www.eia.gov

Nevada should set a goal to provide 10% of the energy for our neighbors

$2,651 million

$1,488 million

$13,694 million

$696 million

$1,100 million

$2,278 million

Total proposed exports:

$22 billion/year

New State of Nevada business plan:

Export Sunshine; Import Money!!

In 2013, Nevada spent:

$10,178,000,000: Total Energy Expenses

$ 6,270,000,000: Petroleum

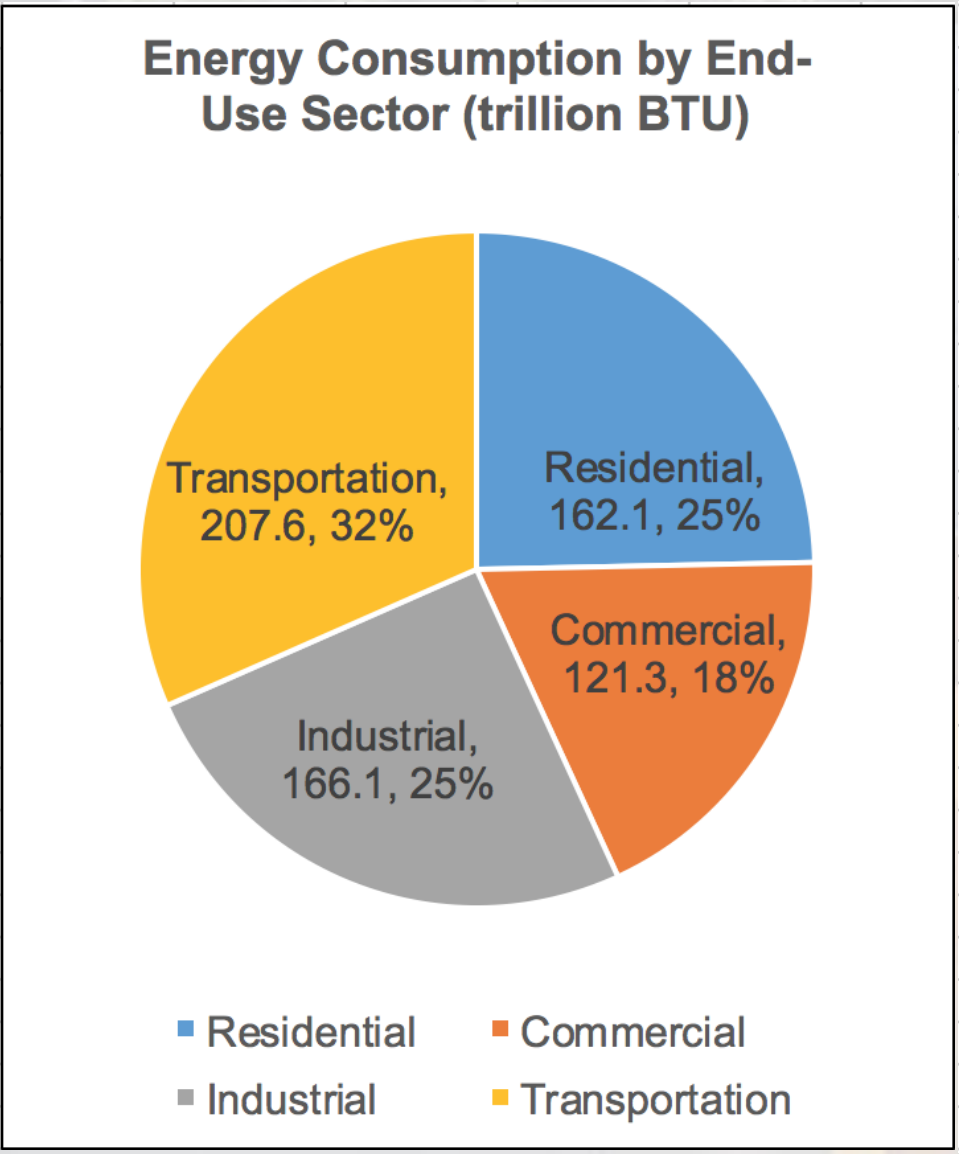
$ 1,493,000,000: Natural Gas

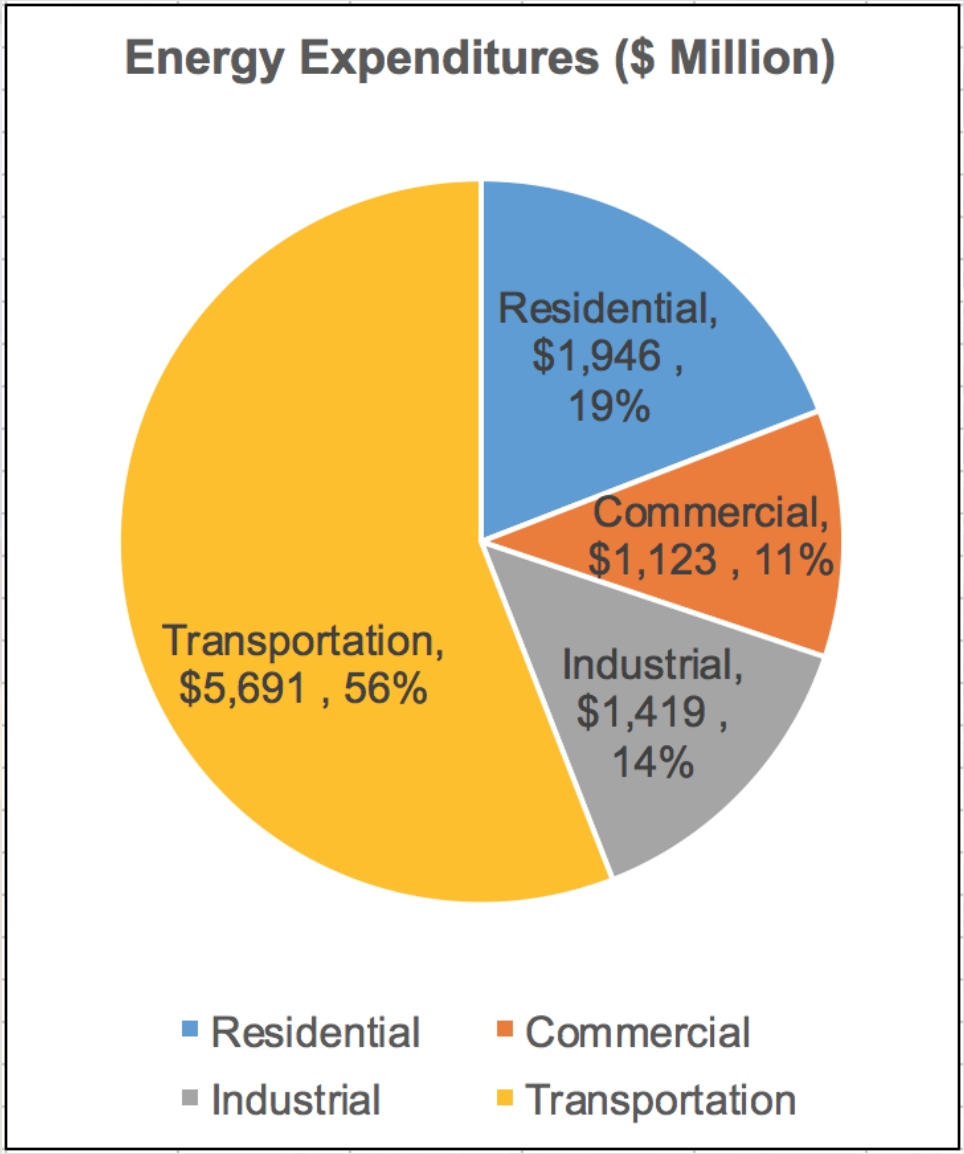
$ 181,000,000: Coal

$7,944,000,000: Fossil Fuels – Out of State

Source: http://www.eia.gov/state/data.cfm?sid=NV#ConsumptionExpenditures

Nevada's Energy Consumption & Costs





Efficiency First!

Our buildings waste a lot of energy

- Residential
- Commercial / businesses
- Public Buildings
  - Schools
  - Hospitals
  - City/County/State

25-35% reduction statewide

Transportation

- Public Transit
  - Light Rail within cities
  - Magnetic Levitation (MagLev) trains for long-haul transportation of goods & people
- Electric Vehicles
  - Car-shares
- Bicycle and Pedestrian-friendly

Renewable Energy

- Retire Valmy coal plant by 2020
- Retire all natural gas plants by 2030

- Solar photovoltaics
- Solar thermal
- Geothermal
- Ground-source heat pumps
- Wind
- Hydroelectric

Finance

- Nevada Green Bank
- Divest from fossil fuels (and reinvest in local renewable energy)
  - NSHE Endowment
  - Public Employee Retirement System
  - Union pension funds
  - State and local sovereign funds
- Property-Assessed Clean Energy (PACE)
- Carbon Tax

Cost of Inaction

- Nevada spends ~$7.9 billion on importing fossil fuels each year.
- That equates to over $21 million/day for oil, coal and natural gas.
- Every day that goes by, another $21 million leaves our state economy, forever.
- **This equals 6% of Gross State Product!**

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