

### 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-by100-mile area [10,000 square miles] of Nevada could supply the United States with all of its electricity."

Source: <a href="http://www1.eere.energy.gov/solar/pdfs/32529.pdf">http://www1.eere.energy.gov/solar/pdfs/32529.pdf</a>

# Regional Energy Consumption & Expenditures

2,039 trillion BTU \$26,509 million

997 trillion BTU \$14,879 million

7,684 trillion BTU \$136,936 million

Data source: www.eia.gov



530 trillion BTU \$6,963 million

\$31 trillion BTU \$11,005 million

1,415 trillion BTU \$22,785 million

#### **Total:**

**\$219,077 million** 

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

\$2,651 million Washington \$696 million Oregon \$1,488 million \$1,100 million Idaho \$2,278 million Nevada Utah \$13,694 million **Total proposed** California exports: Arizona \$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

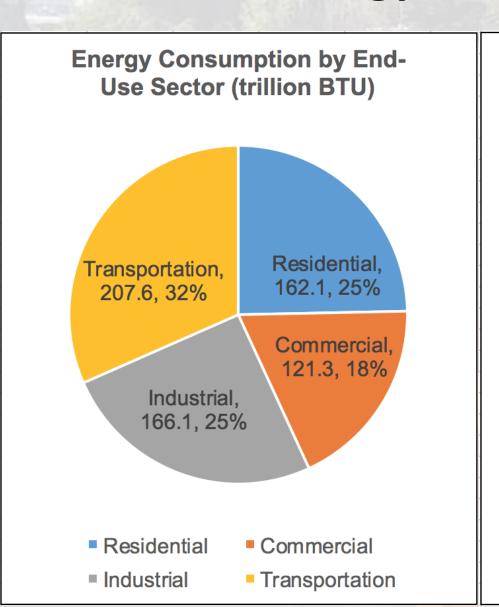
\$ 1,493,000,000: Natural Gas

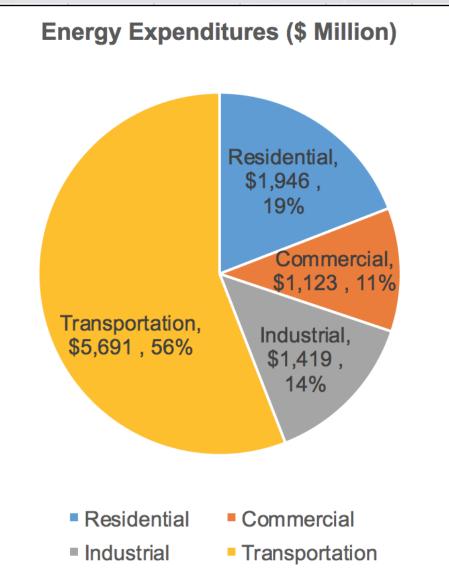
\$ 181,000,000: Coal

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

Source: <a href="http://www.eia.gov/state/data.cfm?sid=NV#ConsumptionExpenditures">http://www.eia.gov/state/data.cfm?sid=NV#ConsumptionExpenditures</a>

#### **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!

