



OREGON  
DEPARTMENT OF  
ENERGY

# Energy Efficiency at a Crossroads

## Will JEDDI CREBBER save Energy Efficiency?

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# Look at the Past, Present, and Future of Energy Efficiency



## PAST NATIONALLY

- 1973 Oil Embargo
- EPCA and ECPA
- 26% increase in energy use but a 149% increase in GDP
- 50% decline in energy intensity, and 60% of that (or 30% decline) is due to efficiency improvements.
- Saving U.S. consumers and businesses about \$800 billion per year (\$2,500 per capita).





## PAST NATIONALLY

“Energy efficiency makes our economy more productive and is a fundamental resource for our economic well-being.”

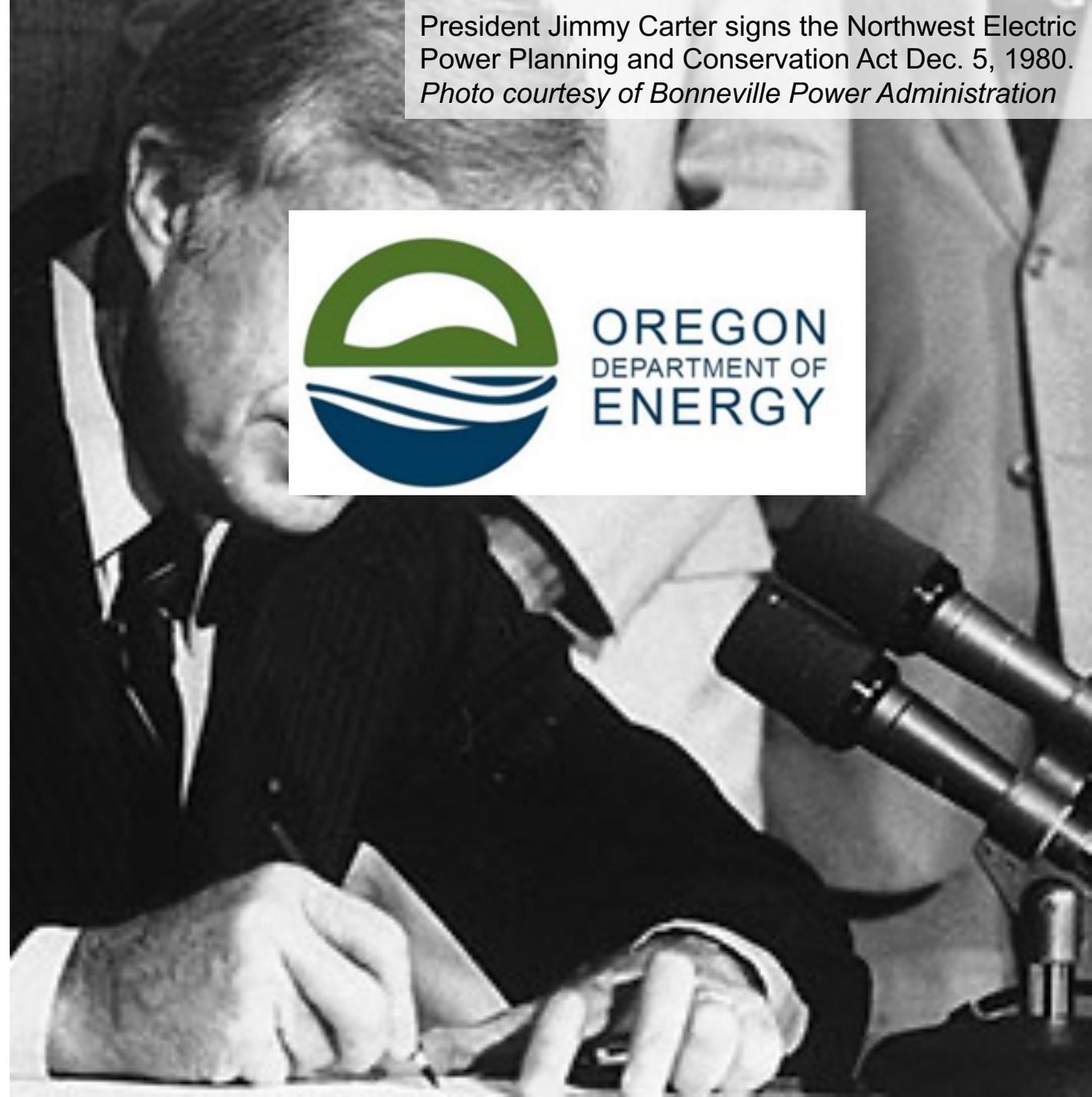
- ACEEE

- Market Forces
- Technology Improvements
- Programs
- Policies
- Energy prices *not* a major driver!

## PAST OREGON

- ODOE created in 1975
- 1980 Power Act was the first time in history that energy efficiency was deemed to be a legitimate source of energy, on par with generating resources
- Dawn of Least Cost Planning

President Jimmy Carter signs the Northwest Electric Power Planning and Conservation Act Dec. 5, 1980.  
*Photo courtesy of Bonneville Power Administration*





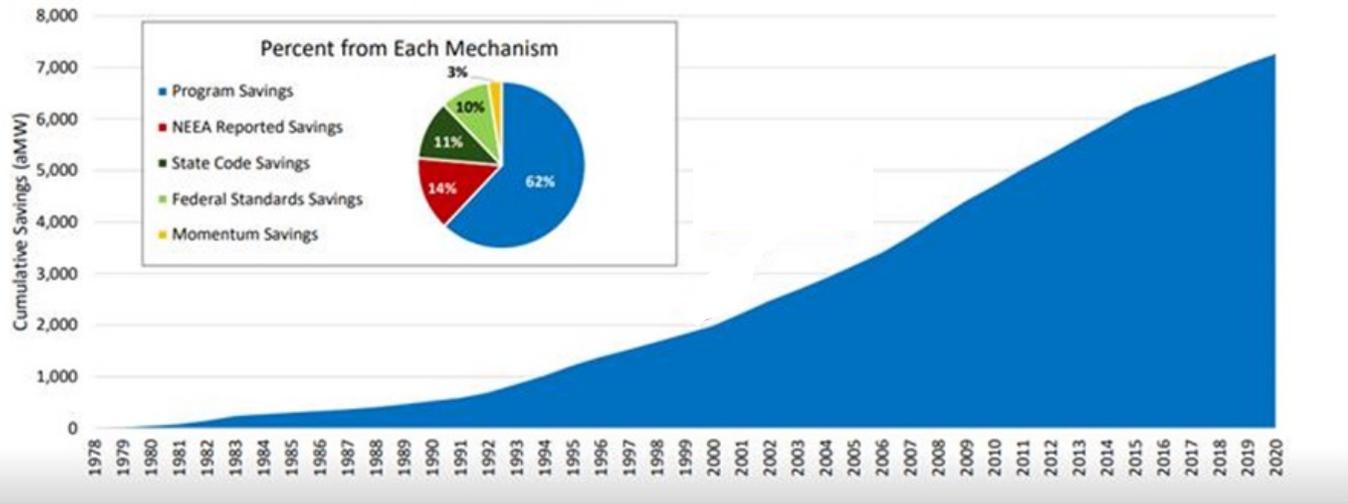
# PAST OREGON



# PAST OREGON

Region has saved over 7,200 aMW from energy efficiency!

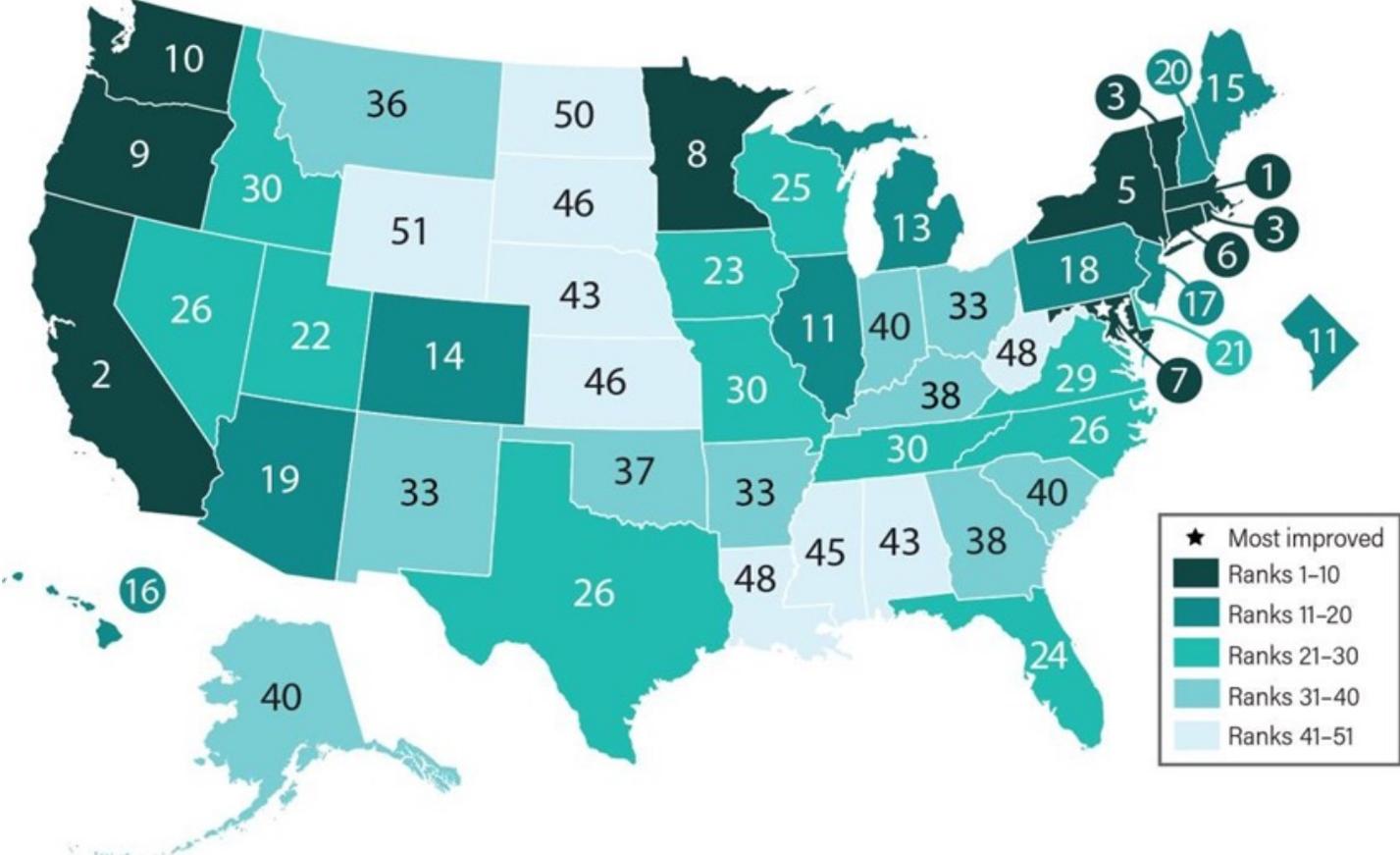
Cumulative Regional Savings, all Mechanisms



- Second largest resource in the PNW
- Saving over \$4 Billion per year
- Reducing GHG by about 24 million MT per year

# PAST OREGON

ACEEE State Ranking on Energy Efficiency  
Oregon in top 10 thirteen years in a row!



# PRESENT

## Pacific Northwest

- Over 4,400 aMW of cost-effective EE by 2035

## Nationally

- Cost-effectively reduce energy use another 40%-60% by 2050
- Potential of 741 Million MWh by 2035, 16% reduction, savings in all sectors and every state (12-21%)
- Incentives matter!





# FUTURE

- In particular, Cost-Effectiveness Methodologies matter
- EE is the lowest-cost resource and it is abundant



# FUTURE

- Energy Efficiency at a Crossroads
- Help Solve New Challenges
- Calculate the **true value** of energy efficiency

# FUTURE OF ENERGY EFFICIENCY

What is not included in the current cost-effectiveness methodology?

- Jobs
- Enhancing DERs
- Decarbonization
- Invisible
- Capacity
- Resilience
- Energy Burden
- Beneficial Electrification
- Reliability

***JEDDI CREBBER***

*May the force be with you!*

# FUTURE OF ENERGY EFFICIENCY

Recognizing, acknowledging, and quantifying the real value of energy efficiency.

## Moving Forward:

- Investigate the real value of energy efficiency
- PUC dockets and rules
- Utility IRPs
- Legislation

*Will JEDDI CREBBER save energy efficiency?*



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Thanks for your time!

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# FUTURE OF ENERGY EFFICIENCY

