

**Washington State Department of Community,
Trade and Economic Development**

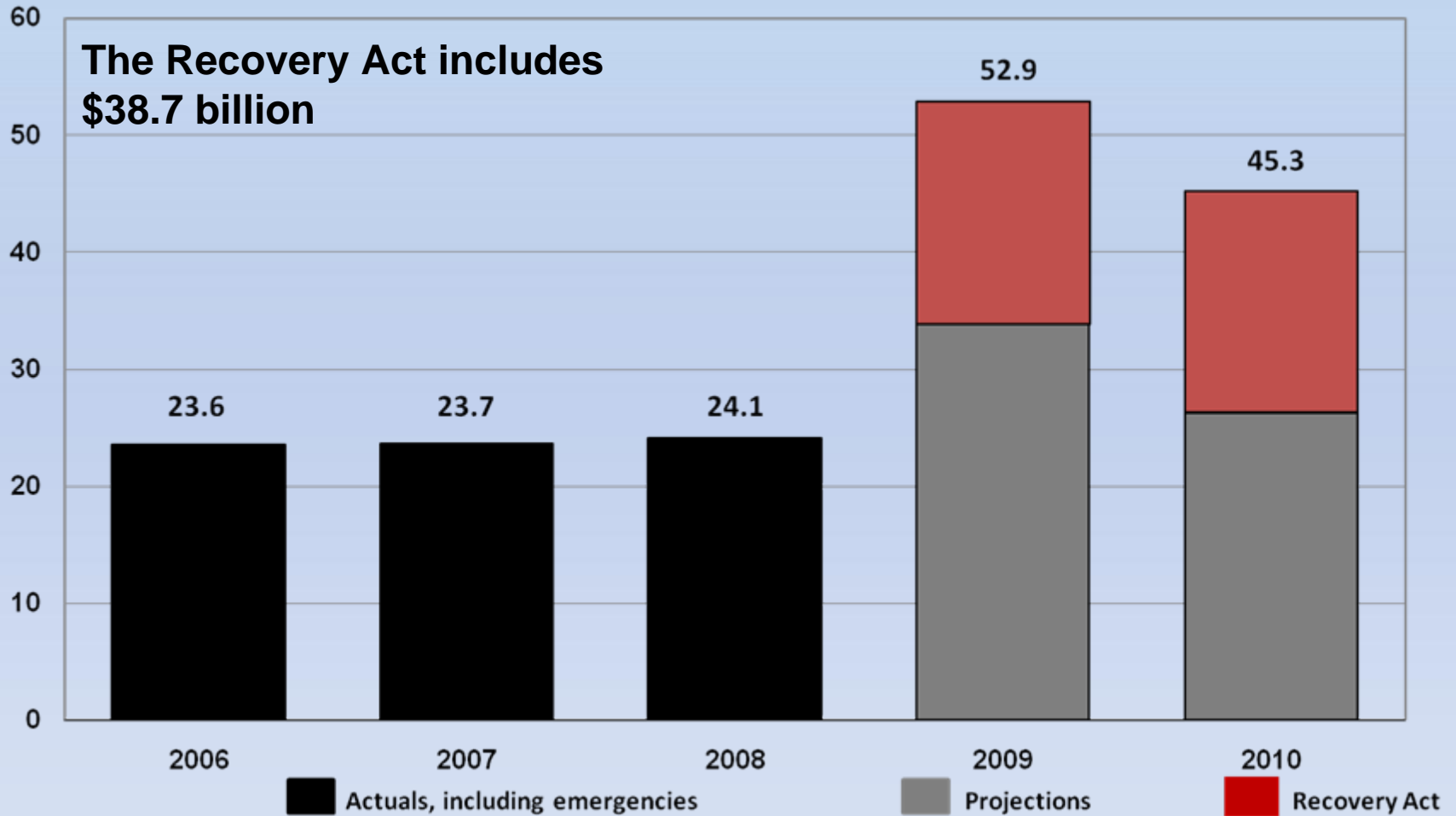
Energy Stimulus Funds What's it All About ?

June 17, 2009



Federal Momentum

DOE Discretionary Budget Authority (\$Bs)

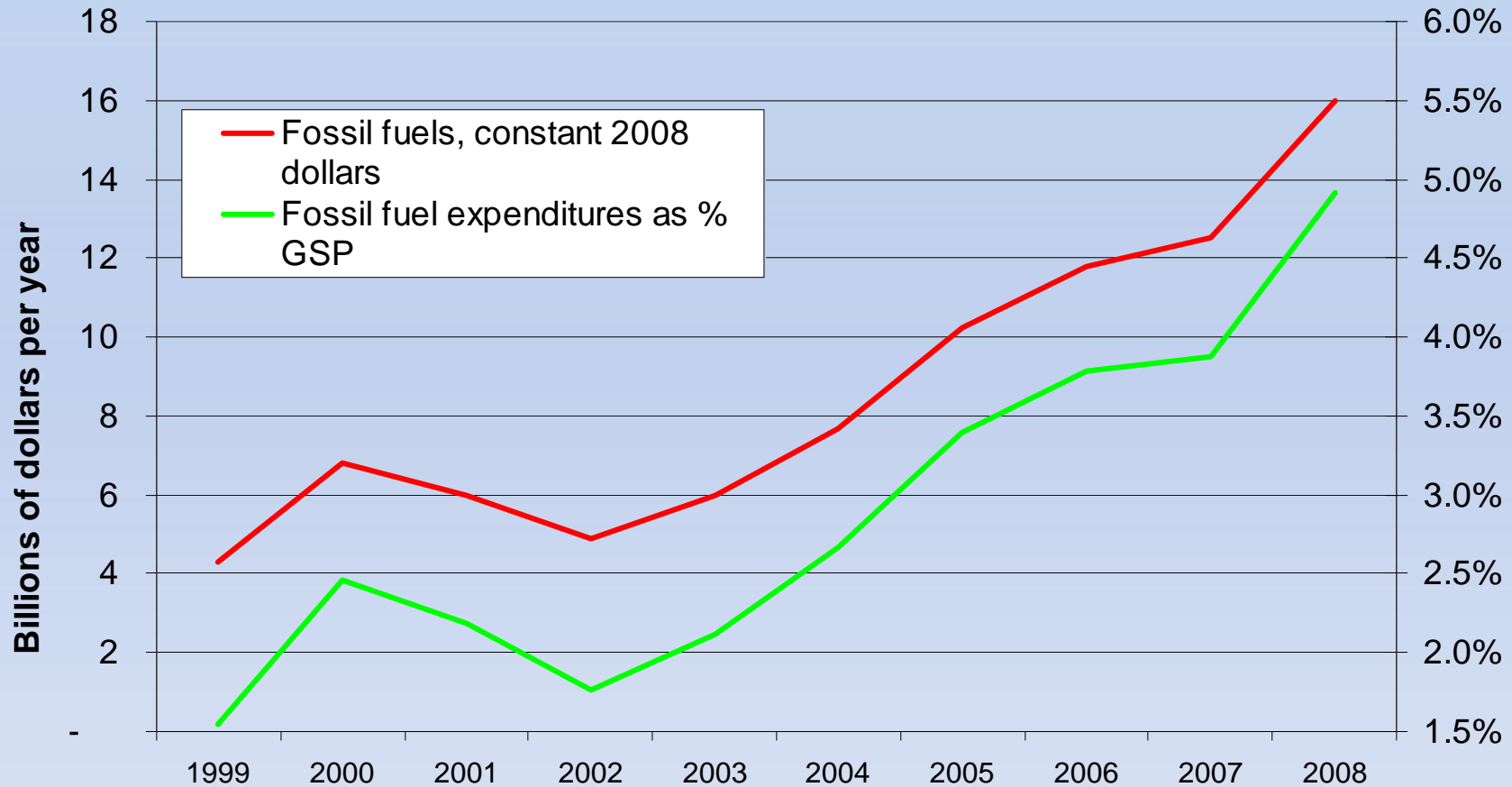


Note: Included in 2009 is emergency funding for Advanced Technology Vehicles Manufacturing Loan Program, \$7.5 billion, and \$250 million



Expenditures on Fossil Fuels

Washington State: 1999-2008



Excludes fuel taxes, refinery and pipeline costs and profits
Sources: EIA, BEA and Sightline

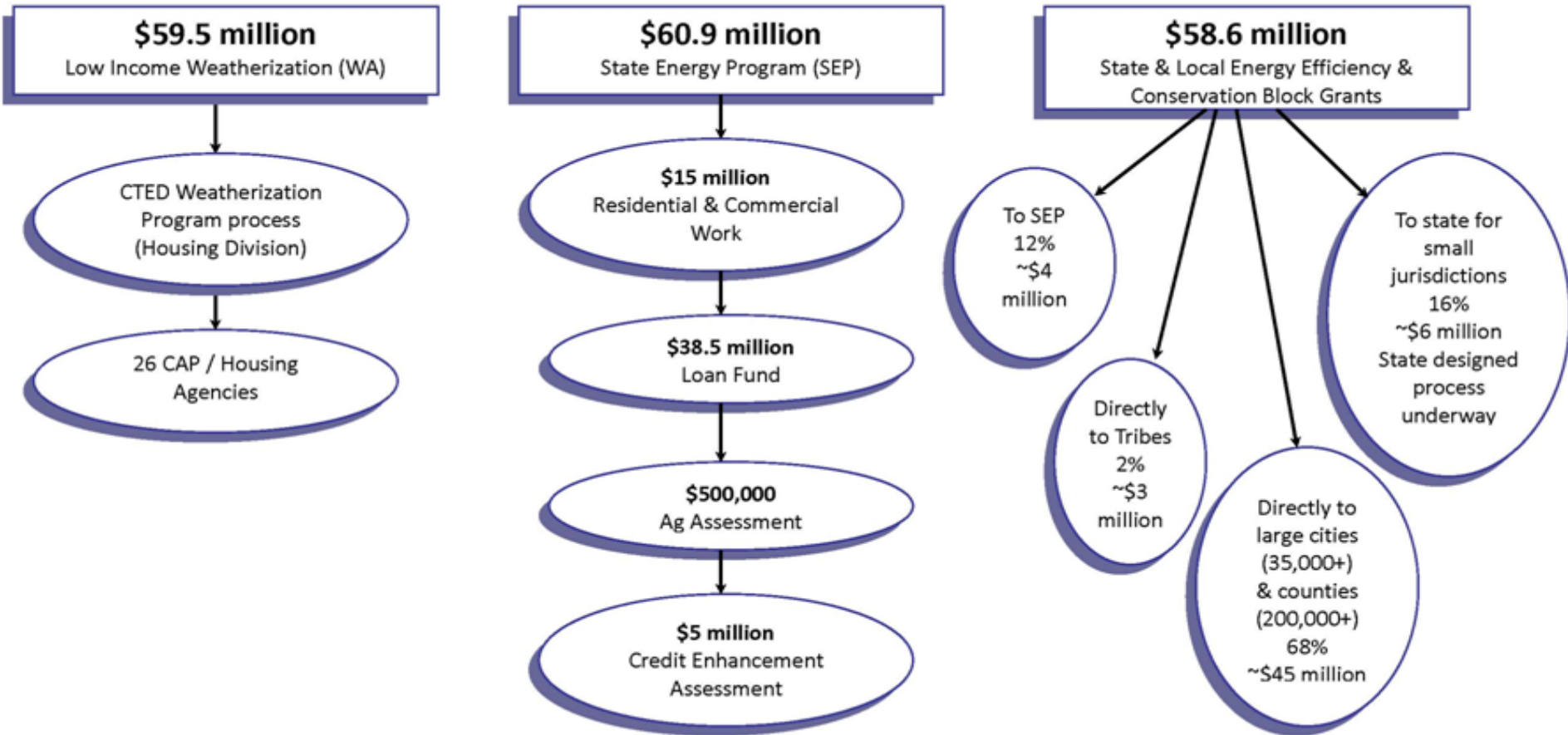


Energy and Stimulus

- State Directed Funds – Energy Efficiency and Renewable Energy
- Federally Competitive Funds – From Energy Science to Energy Training
- Energy Tax Incentives
- Energy Bonds



Overview: Energy Recovery Funds



Low Income Weatherization

- \$59.5 million in Low Income Weatherization Funding
- Estimated 400-500 jobs created and sustained over ARRA funding period
- Developing online, statewide weatherization data system
- Tiered program design
- For more information Steve Payne at CTED stevep@cted.wa.gov (360) 725-2950



State and Local Block Grants for Energy Efficiency

- Building energy efficiency
- Transportation energy efficiency
- Building codes and inspections
- Energy distribution technologies to increase energy efficiency
- Material conservation programs to increase energy efficiency
- Energy efficient traffic signals and street lighting
- Renewable technologies on government buildings

More information: www.eecbg.energy.gov



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What do smaller jurisdictions want to do?

- Building retrofits (mostly public) - 20
 - Traffic and street light replacements - 11
 - Building audits (mostly residential and commercial) - 7
 - Renewable energy (mostly public buildings) - 7
 - Energy efficiency strategy and technical consultant - 4
 - Electric vehicles/vehicle fuels - 3
 - Bicycle and pedestrian trails - 3
- (5 counties and 28 cities)



State Energy Program (SEP)



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Source: Energy Information Administration, Electric Power Annual

State Energy Program – Not Low-Income Weatherization

\$14.5 million for residential and small commercial energy efficiency pilots

- Partnership with WSU energy program
- Competitive grants for at least three pilots
 - o Provide audits and efficiency retrofits in urban areas
 - o Use local community organizations, local labor
 - o Include sponsor match
 - o Ensure quality control and report on outcomes

(SB 5649 Section 102)



State Energy Program – Farm Energy

\$500K for farm energy assessments

- Develop assessment methods for farm energy use
- Farm auditor curriculum
- Opportunities for other funding for farm efficiency projects

(SB 5649 Section 103)



State Energy Program - Credit Enhancements

\$5 million for *“credit enhancements such as loan loss reserve funds...and consumer financial products and services that will be used to obtain energy efficiency services.”*

- Grants to financial institutions
- *Proposed* limits: \$500,000 to \$2 million
- Section 208: Municipalities can use block grants for “loan loss revenues” or “risk reduction mechanisms.” CTED to work with them.
- Link with any local block grant funds if at all possible

(SB 5649 Sections 205,206,208)



Financing - Energy Recovery Act Account

\$38.5 million for "loans, loan guarantees, and grants that encourage the establishment of innovative and sustainable industries for renewable energy and energy efficiency technology, including **but not limited to:**

- i. renewable energy projects or programs that require interim financing to complete project development and implementation;
- ii. companies with innovative, near-commercial or commercial, clean energy technology; and
- iii. energy efficiency technologies that have a viable repayment stream from reduced utility costs."

(HB 2289, Section 5)



Financing – Energy Recovery Act Account

Our current thinking:

- Invest two-thirds (~\$25 million) in low to moderate risk loans, loan instruments
- Remaining funds in higher risk investments focusing on near-commercial companies, projects
- Loan amounts: \$500,000 - \$2 million
- “Wholesale” loans, third parties may do “retail” loans
- Public or private entities - companies, utilities, state and local governments, non profits...
- May package some grants with the loans



Where's the Current U.S. DOE Info ?

www.energy.gov/recovery/funding.htm



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Electricity Delivery and Energy Reliability Announcements

- [Enhancing State Government Energy Assurance Capabilities and Planning for Smart Grid Resiliency](#) # DE-FOA-0000091
- [Resource Assessment and Interconnection-Level Transmission Analysis and Planning](#) # DE-FOA-0000068
- [Smart Grid Demonstrations](#) #: DE-FOA-0000036
- [Smart Grid Investment Grant Program](#) # DE-FOA-0000058A
- [State Electricity Regulators Assistance](#) # DE-FOA-0000100



Energy Efficiency and Renewable Energy Announcements

- [Biomass Projects](#) (Reference Number: To Be Determined)
- [Biomass Projects - Demonstration of Integrated Biorefinery Operations](#) # DE-FOA-0000096
- [Clean Cities FY09 Petroleum Reduction Technologies Projects for the Transportation Sector](#) # DE-PS26-09NT01236-04
- [Electric Drive Vehicle Battery and Component Manufacturing Initiative](#) # DE-FOA-0000026
- [Energy Efficiency and Conservation Block Grants - Formula Grants](#) # DE-FOA-0000013
- [Energy Efficient Information and Communication Technology](#) # DE-FOA-0000107
- Enhanced Geothermal Systems Component # DE-FOA-0000075
- Enhanced Geothermal Systems Demonstrations # DE-FOA-0000092
- [Geothermal Technologies Program](#) # DE-FOA-0000109



Energy Efficiency and Renewable Energy Announcements (2)

- [High Penetration Solar Deployment](#) (# DE-FOA-0000085)
- [Industrial Energy Efficiency](#) # DE-FOA-0000044)
- [Large Wind Turbine Drivetrain Testing Facility](#) (#: To Be Determined)
- [National Laboratory Call for Foundational Photovoltaics and Concentrating Solar Power Research and Development](#) (# DE-FOA-0000087)
- [Photovoltaic \(PV\) Technology Incubators](#) #: RAT-9-99013)
- [Solar Market Transformation](#) # DE-FOA-0000078)
- [State Energy Program Formula Grants](#) # DE-FOA-0000052)
- [Transportation Electrification](#) # DE-FOA-0000028)
- [Weatherization Assistance Program Formula Grants](#) # DE-FOA-0000051)
- [Wind Energy Consortia between Institutions of Higher Learning and](#) # DE-FOA-0000090)



Towards a State Energy Framework

Inputs

Efficiency Investments

Industrial
Transportation
Built Environment

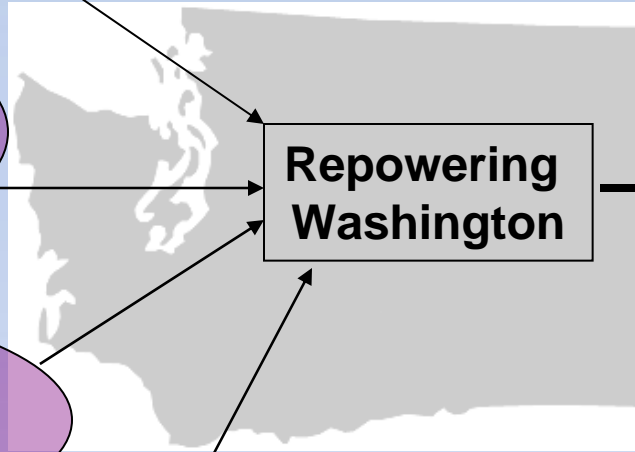
Infrastructure Investments

Grid
Vehicle fueling/charging
Storage

Renewable Investments

Policy

Regulation
Carbon price
Renewable/Efficiency Targets
Tax Incentives



**Repowering
Washington**

Outputs



Electricity Cost



**Clean Energy
Related Growth**



**Overall Carbon
Footprint**



Further Information

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