



City of Everett  
City Council  
New Energy Cities

September 28, 2016



**Climate Solutions.**  
PRACTICAL SOLUTIONS TO GLOBAL WARMING



# Agenda



- New Energy Cities/Stockholm Environment Institute
- Everett Energy Map
- Everett Carbon Wedge Analysis
- Q & A



# Climate Solutions

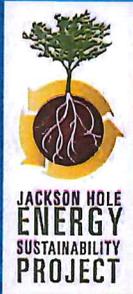


**New Energy Cities:** Partnership with Northwest cities to reduce carbon emissions by accelerating climate-smart, clean energy solutions:



- Ambitious goal-setting
- Carbon math
- Strategies to achieve carbon reduction goals
- Programs to reduce GHG in buildings, transportation, energy supply





# Why pursue carbon reduction?

- Climate imperative & economic benefits
- Washington State Emission Reduction Goals
  - ✓ By 2020, reduce to 1990 levels
  - ✓ By 2035, reduce to 25% below 1990 levels
  - ✓ By 2050, reduce to 50% below 1990 levels
- Compliance with City of Everett Comprehensive Plan Policy 10.3
  - ✓ “The City should inventory community-wide GHG emissions, and develop an Everett Climate Action Plan that includes goals and recommended actions for community-wide GHG reductions, measures to adapt to the impacts of climate change, responsibility for implementation of the measures, and benchmarks and metrics for monitoring implementation of the plan.”

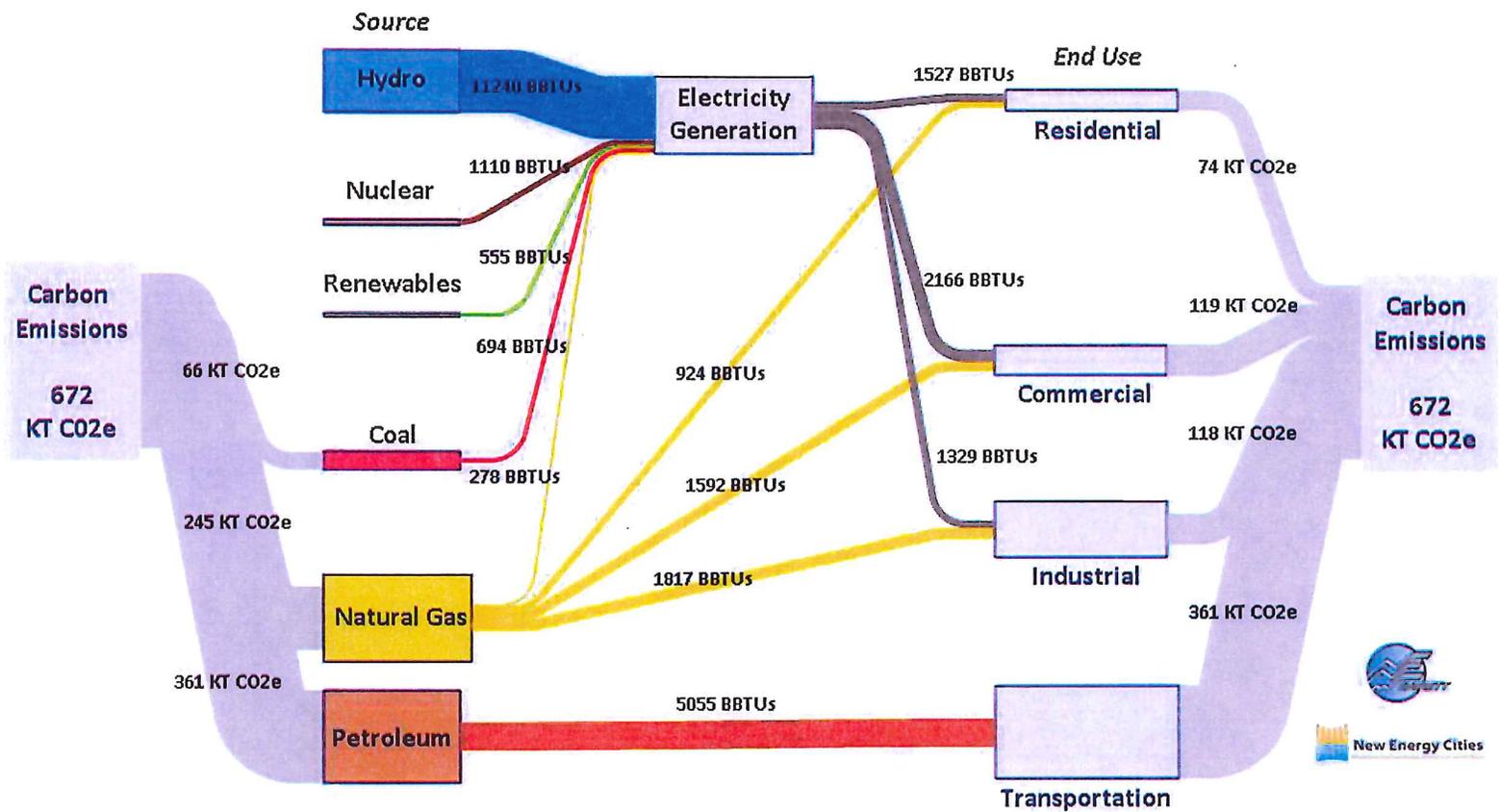


# Key Data Sources for Energy Map & Carbon Wedge Analysis

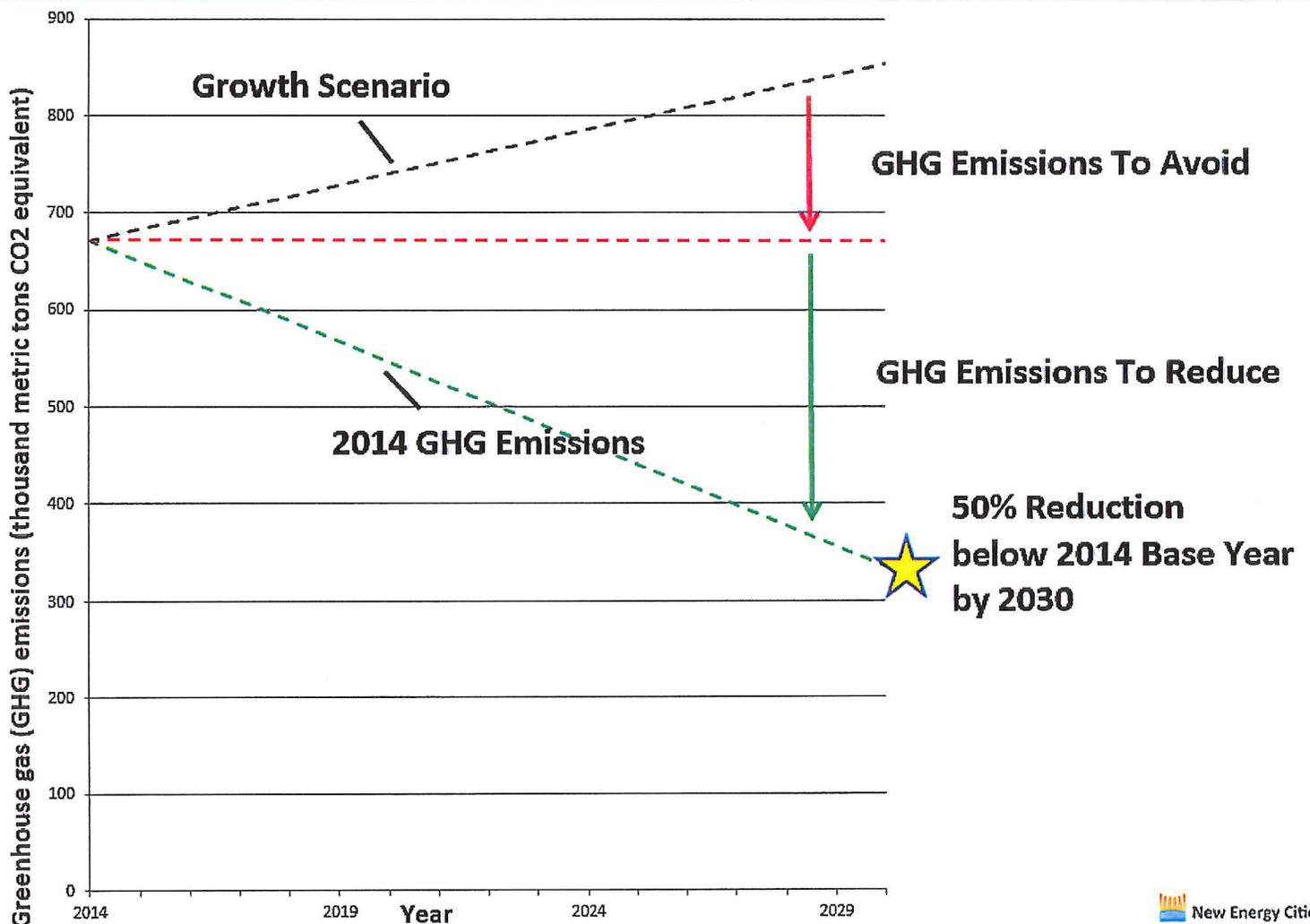
Category	Measure/Assumption	Sources
Transportation	Vehicle miles traveled	Puget Sound Regional Council
Commercial, residential, industrial	Electricity consumption Natural gas consumption	Snohomish PUD Puget Sound Energy
Population growth	Projected population growth	City of Everett



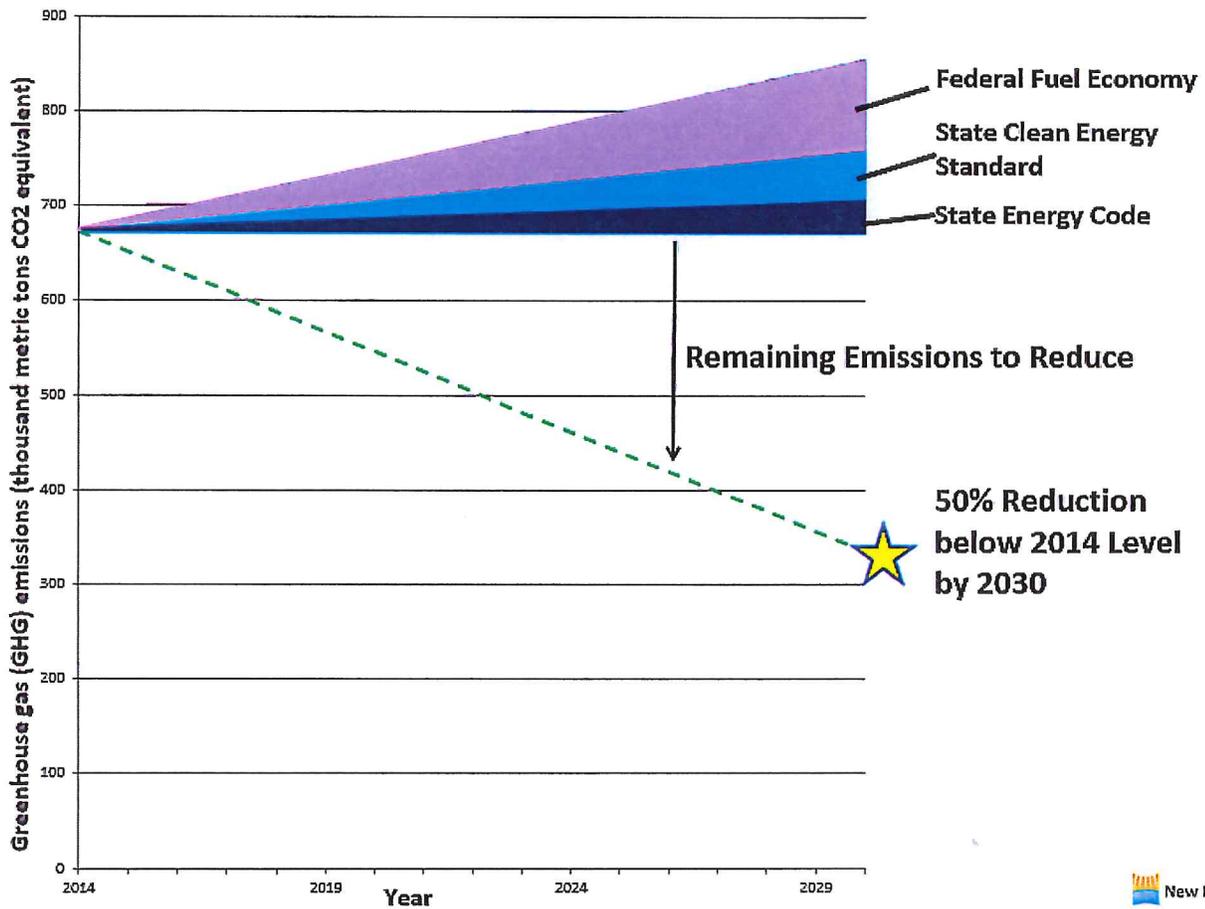
# Everett 2014 Energy and Carbon Footprint



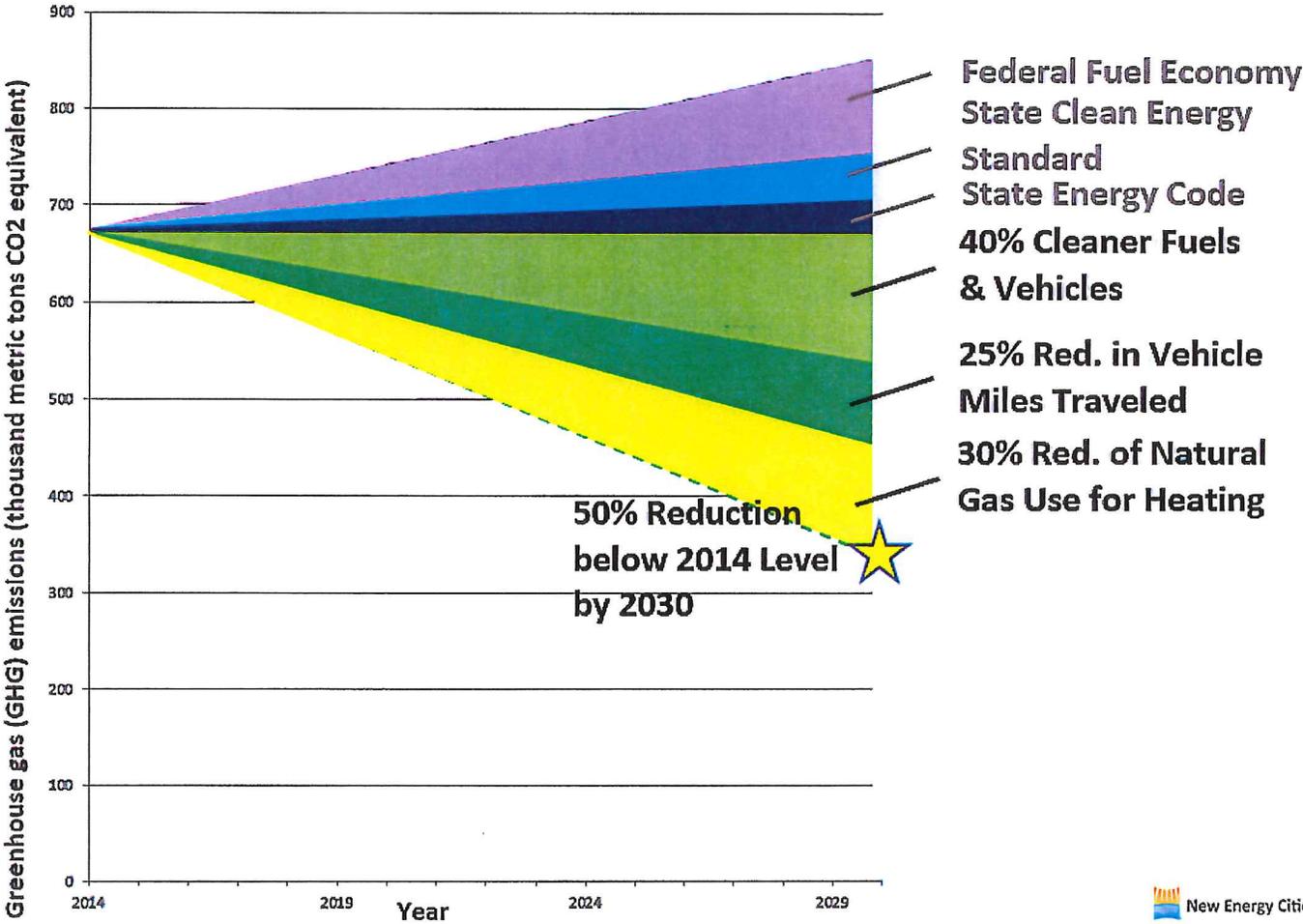
# 50 x 2030: What Will It Take?



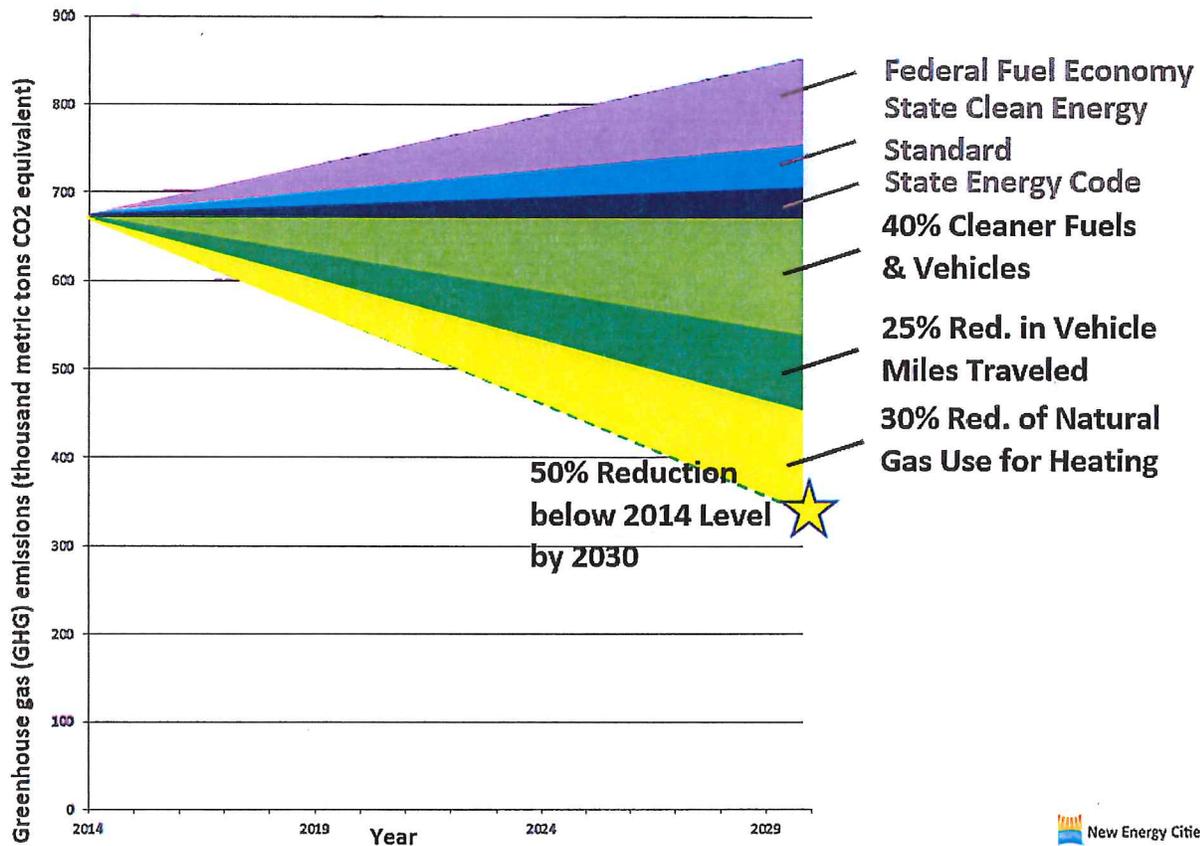
# Impact of Federal and State Policies



# Potential Targets to Meet 50 x 2030 Goal



# Cleaner Fuels and Vehicles

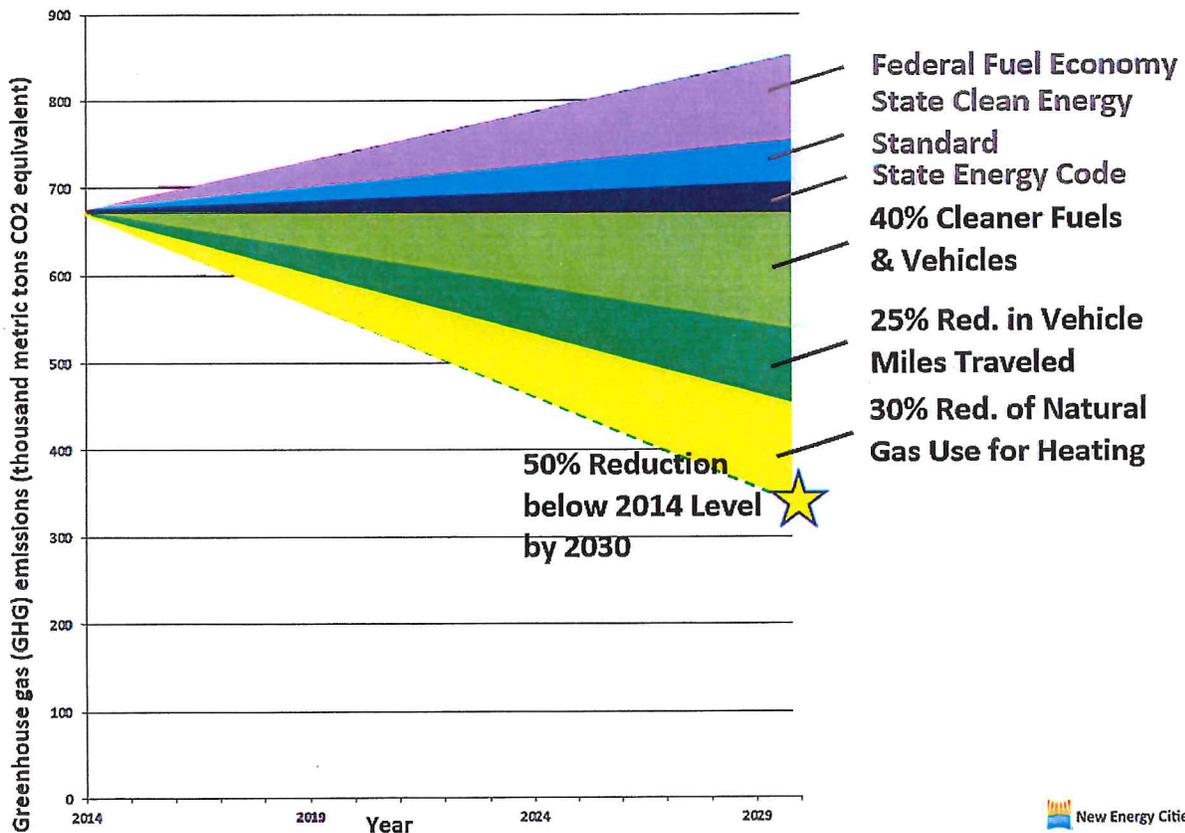


## Potential Priority/First Action

- Partner with SnoPUD, Everett Transit, and Port of Everett on transportation electrification



# Vehicle Miles Traveled Reduction



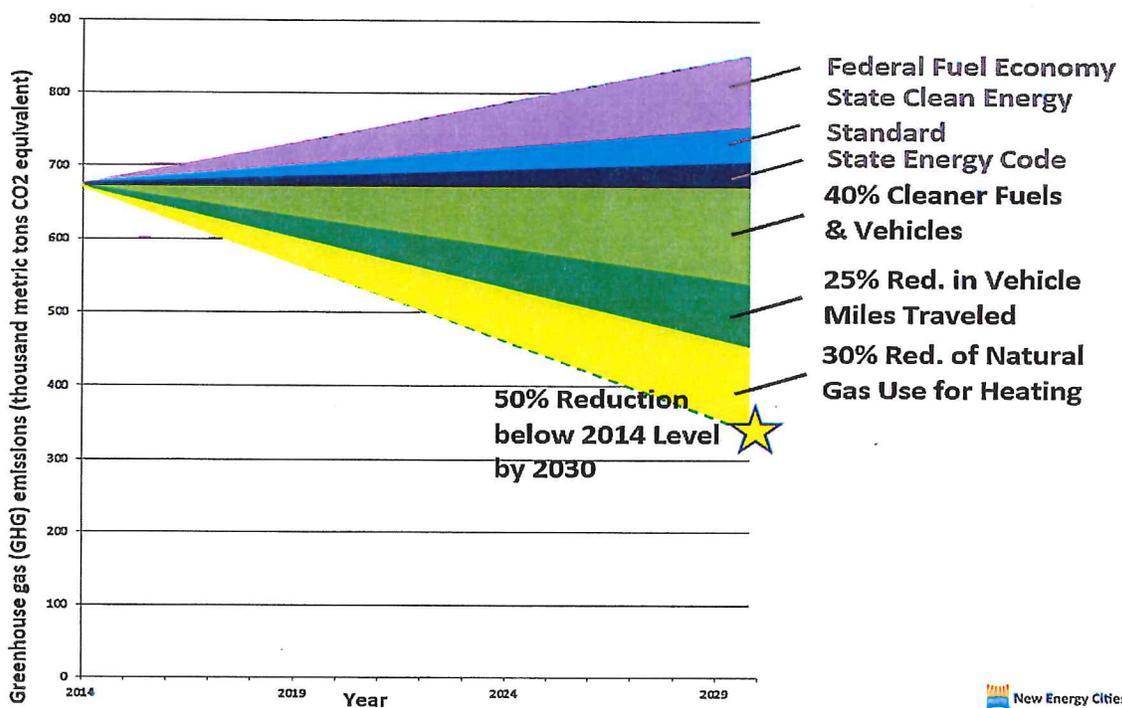
New Energy Cities



## Potential Priority/First Action

- Enhance commute trip reduction (CTR) program, in partnership with State of Washington and local employers

# Building Energy Efficiency/Natural Gas



## Potential Priority/First Action

- Join Regional Code Collaboration, and adopt stretch energy codes
- Adopt building energy benchmarking requirements for public and commercial buildings, in partnership with Smart Buildings Center and State Department of Commerce



## Summary of Findings

- Existing laws will bring important reductions, but they alone will not achieve the goal
- State, regional, and local levers of change are all essential—and available—to meet reduction goals
- Bold action, partnerships, and proactive planning are needed to meet ambitious carbon reduction targets

***Achieving 50 x 2030 requires bold action  
and planning with a carbon reduction lens***



Thank you!

Eileen V. Quigley, New Energy Cities

[eileen@climatesolutions.org](mailto:eileen@climatesolutions.org)

(206) 454-3176

Derik Broekhoff, Stockholm Environment Institute

[Derik.Broekhoff@sei-us.org](mailto:Derik.Broekhoff@sei-us.org)

(206) 547-4000, X4#



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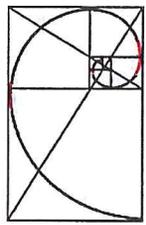
# Climate Solutions Mission

Accelerate *practical, profitable* solutions to global warming by:

- ✓ Galvanizing leadership
- ✓ Growing investment
- ✓ Bridging divides

**GOAL:** Make the Northwest a national and world leader in the clean energy economy





SEI

STOCKHOLM  
ENVIRONMENT  
INSTITUTE

- International nonprofit research organization
- Environment and development issues from local to global policy levels for 25 years
- Combines scientific research with policy analysis
- Connects work to decision-makers and civil society
- Focuses on global governance, national public policy, regional cooperation, local planning, and the private sector

