

25 August 2025

Challenge Question for the Emergency Board:

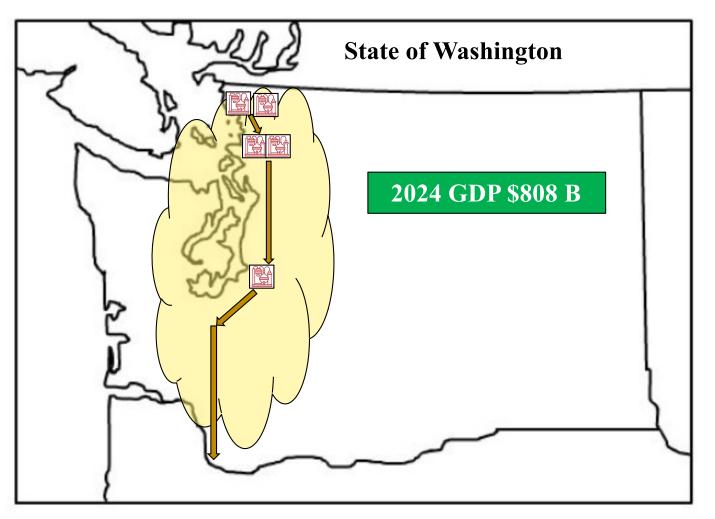
Can the Salem LPRO answer the question, "How could Katrina damage be any less than the 43rd return of the Cascadia Catastrophe?

Preliminary



25 August 2025

Before 43rd Cascadia M8 seismic return





Revealed seismically under-designed refinery

History of 42 Cascadia Seismic events discovered 2010, USGS published 2012

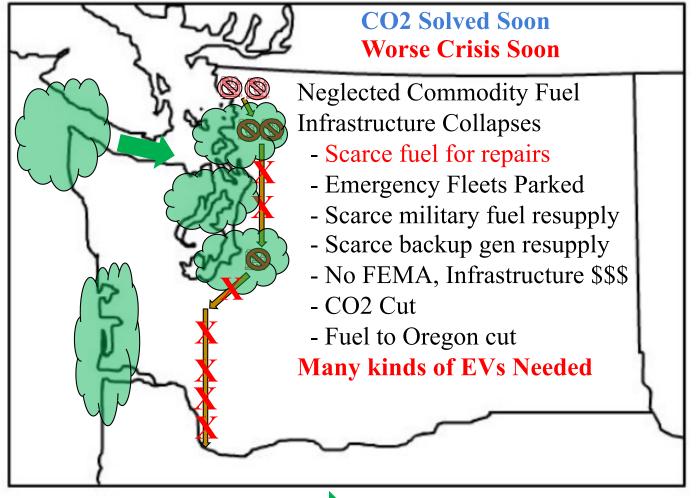


Combustion CO2



Under-designed Petro Pipeline

Day 1 after 43rd historic M8 Cascadia seismic return





25 August 2025



Revealed seismically under-designed refinery



Quake Damage



Combustion CO2



Tsunami Flood

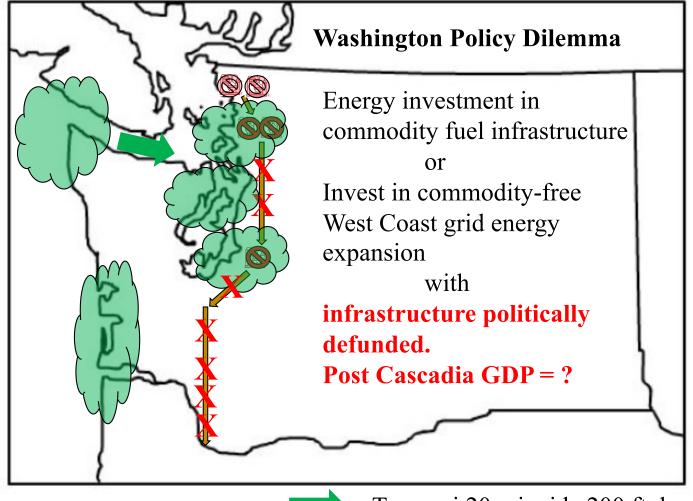


Under-designed Petro Pipeline



Breaks

Day 1 after 43rd historic M8 Cascadia seismic return





25 August 2025



Revealed seismically under-designed refinery



Quake Damage



Combustion CO2



Tsunami Flood



Under-designed Petro Pipeline

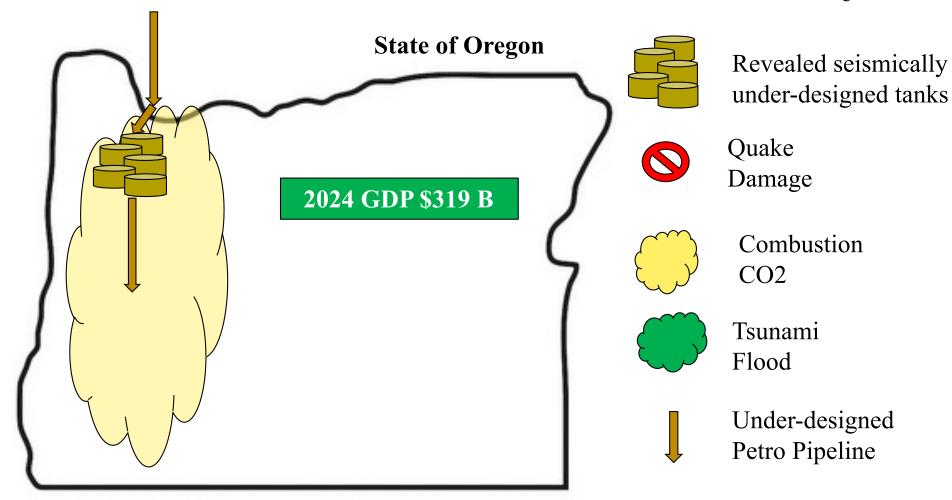


Breaks

be

25 August 2025

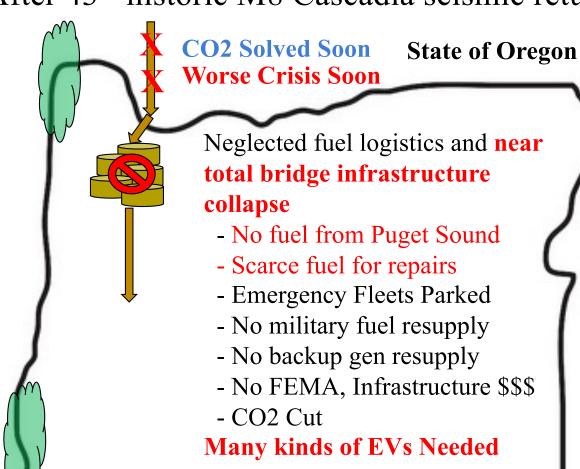
Before 43rd Cascadia M8 seismic return



be

25 August 2025

After 43rd historic M8 Cascadia seismic return





Revealed seismically under-designed tanks



Quake Damage



Combustion CO2



Tsunami Flood

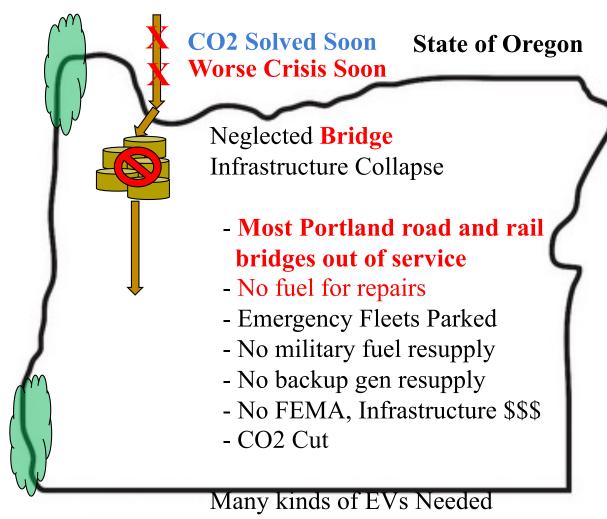


Under-designed Petro Pipeline

be

25 August 2025

After 43rd historic M8 Cascadia seismic return





Revealed seismically under-designed tanks

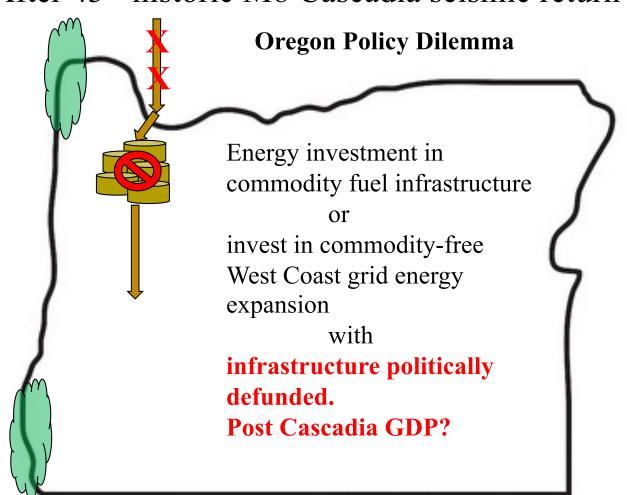


Quake Damage



25 August 2025

After 43rd historic M8 Cascadia seismic return





Revealed seismically under-designed tanks

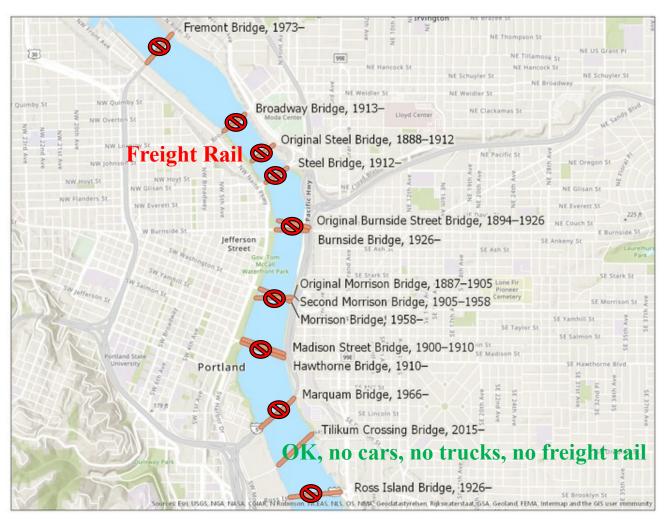


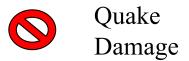
Quake Damage

be

25 August 2025

After 43rd historic M8 Cascadia seismic return





Sellwood OK, no rail

be

25 August 2025

After 43rd historic M8 Cascadia seismic return



Revealed seismically under-designed bridges

UP

Union Pacific

BNSF

BNSF

PNWR

Portland and Western Rail

ODOT

Oregon DOT

MULT

Multnomah County

Sellwood OK, no rail

After 43rd historic Cascadia seismic return

North Portland Peninsula





25 August 2025

Portland CEI Hub seismically under-designed tanks collapse and burn

Revealed seismically under-designed bridges

CRC

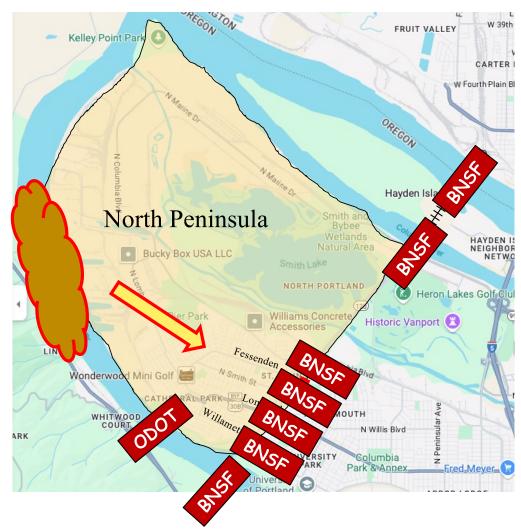
I-5 Bridge

ODOT

Oregon DOT (St. Johns)

BNSF

BNSF Rail -Failures isolate Oregon and strand North Portland

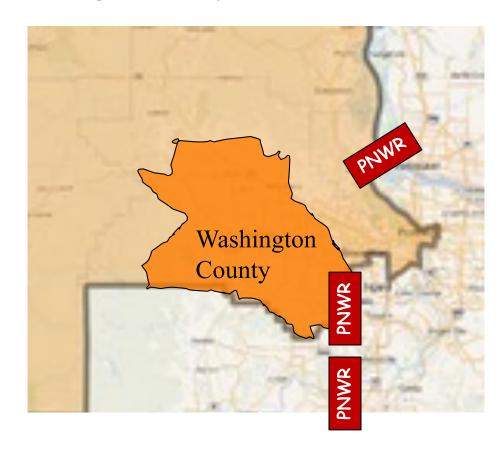




25 August 2025

After 43rd historic Cascadia seismic return

Washington County



Revealed seismically under-designed bridges

UP

Onion Pacific

BNSF

BNSF

PNWR

Portland and Western Rail: Lake Oswego Tualatin Willamette

be

25 August 2025

After 43rd historic Cascadia seismic return

Public safety recap

About Cascadia math

Region of uncertainty 50/50 Region of Certainty
One of many risk math derivations
https://storymaps.arcgis.com/stories/229d0d268239467098a156c41f6dd0da
Disaster capital is a thing