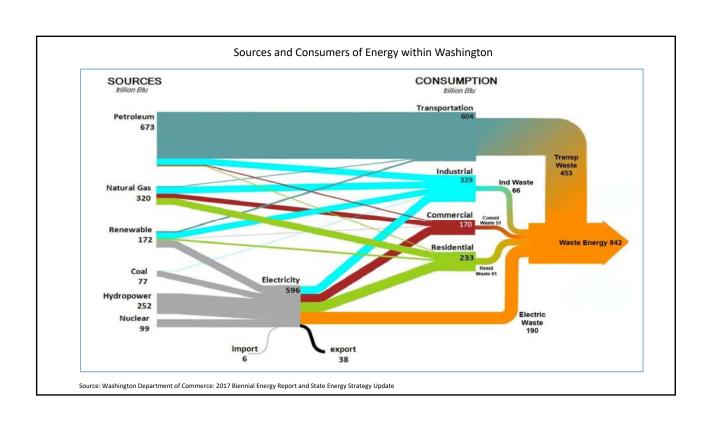
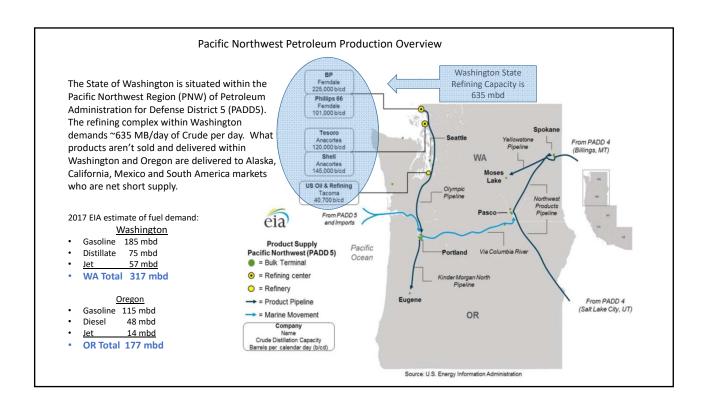
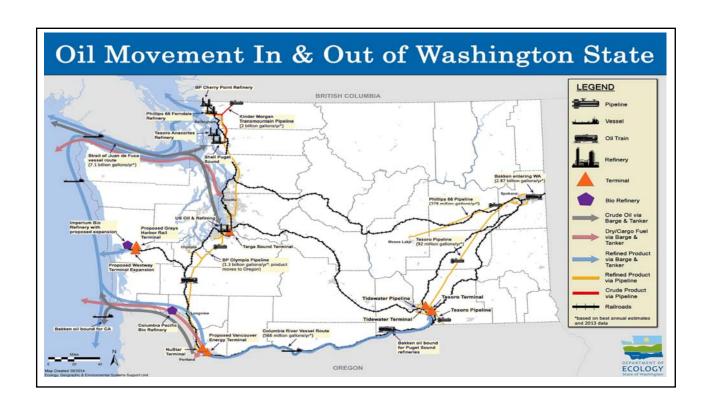
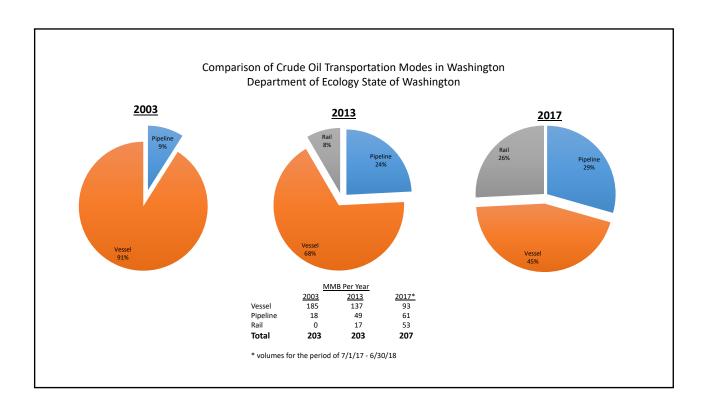
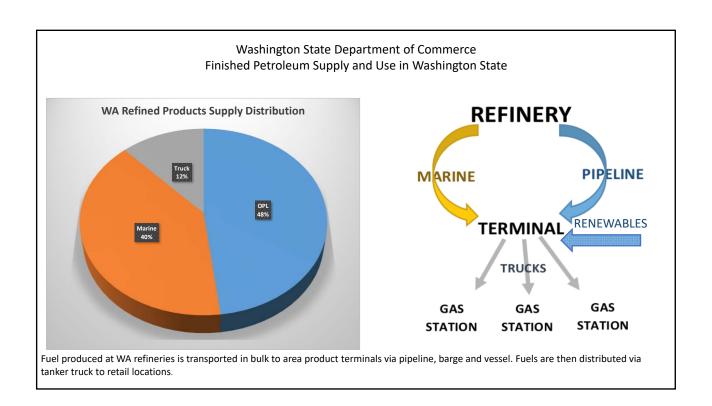
Understanding the Fuel Supply and Demand within the greater Tacoma area

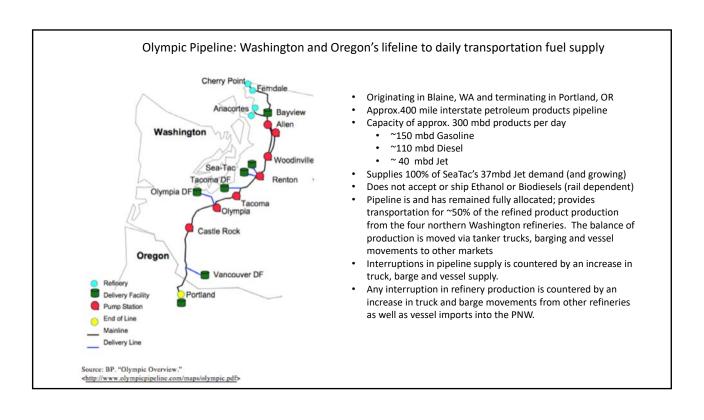


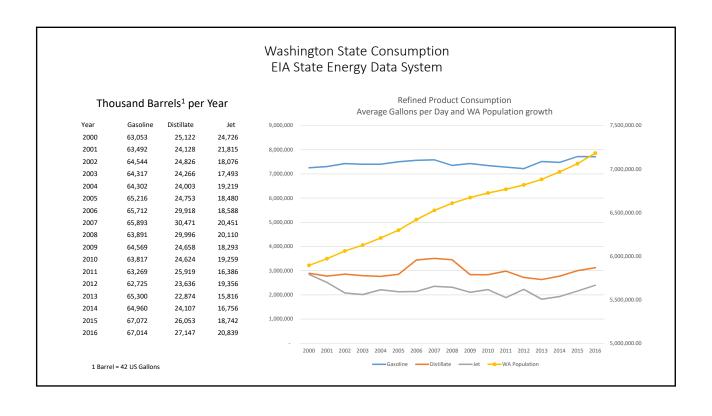




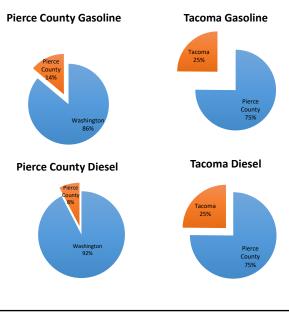






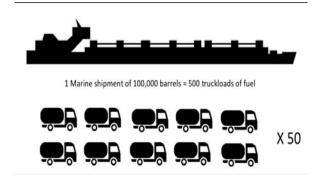


Tacoma and its Demand for Transportation Fuels as a % of Washington State.

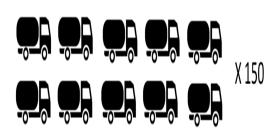


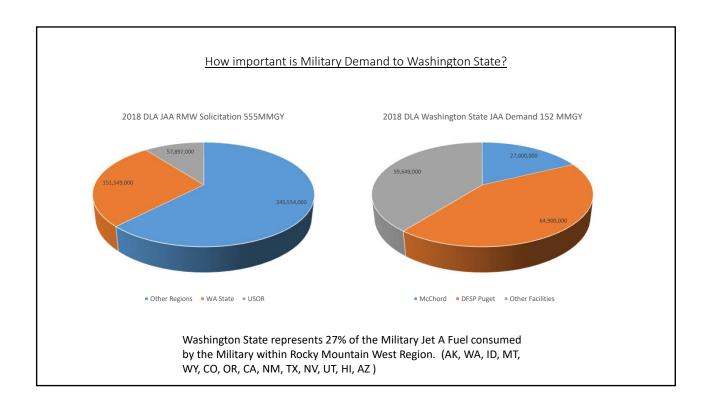
- The Tacoma Tideflats are strategically located in the South Puget Sound
 with a deep water port, pipeline connections and refined product
 terminals. USOR, NuStar, P66 and Targa supply gasoline, diesel, jet fuel
 and asphalt to a large geographic area including Pierce, Thurston, Grays
 Harbor, Kitsap Counties and the Olympic Peninsula.
- Total gasoline demand in the State of Washington is ~185mbd, or 7.7MMGPD
 - Pierce County represents ~14% of that demand or roughly 1MMGPD
 - Within Pierce County, Tacoma represents ~25% of the counties demand, or roughly 270mgpd
- Total diesel demand in the State of Washington is ~75mbd, or 3.1MMGPD
 - Pierce County represents ~8% of that demand or roughly 240mgpd
 - Within Pierce County, Tacoma represents ~25% of the counties demand, or roughly 60mgpd
- Jet Fuel demand in the State of Washington is ~57mbpd
 - SeaTac consumes ~40mbd
 - Military demand is ~10 mbd
 - JBLM demand is roughly 1,800 b/d
 - Other regional facilities account for the balance
- Marine Bunker fuel demand in the Puget Sound is ~25mbd of HSFO
 - This demand will change to LSFO in 2020
 - USOR supplies ~70mgpd of MGO to marine operators in the Commencement Bay area

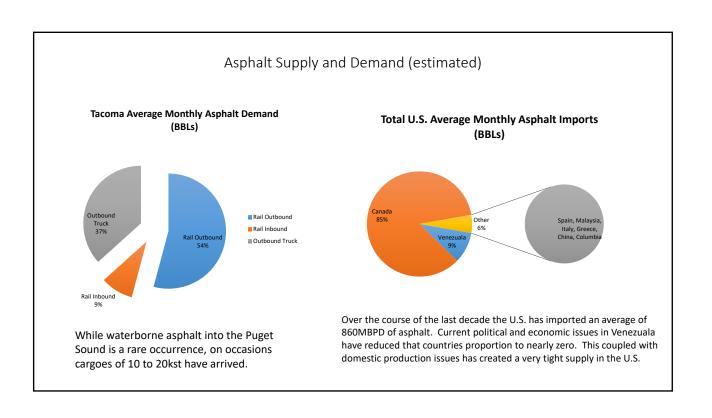
In the event of an interruption in the supply infrastructure of the tideflats, fuel demand for the surrounding areas would be met via tanker trucks carrying fuel from the northern refiners as well as from the Portland area. This increase in truck traffic with further congest WA state highways while increasing emissions at a time when the industry is working towards reducing emissions.



1 day of pipeline shipments = 1,500 truckloads of fuel







Sudden Supply Interruptions and Impacts

- In 2015 the XOM Torrence, CA refinery experienced a fire in their FCC unit. This resulted in a year long interruption in production, the consequence of which was an increase in vessel/barge movements into the Southern California market:
 - an increase of 220% YoY of finished gasoline imports into the USWC
 - An increase of 300% YoY of Gasoline Blend Stocks
 - An increase of 12% YoY of gasoline moving from the PNW and SFB to LA
 - A 30% increase in the volume of gasoline moving from Canada into the USWC
 - Imports of ULSD increased 120% YoY

