Figure C-1 Facility Layout
Boardman Solar Energy Facility, Morrow and Gilliam Counties, Oregon  December 19, 2016
Emergency Powers: Fuel

State Declared Emergency - Management of Resources (ORS 401.188)

- Control, restrict and regulate the use of food, feed, fuel, clothing, and other commodities, materials, goods, and services

Oregon Department of Energy (ODOE) Authority – (ORS 176.750-785)

- Develop and maintain a statewide contingency plan in response to petroleum shortages that impact Oregon
- Provide adequate fuel supplies to maintain emergency services, transportation, and the operation of the economy to ensure the health, safety, and welfare of the residents of the State of Oregon while an emergency exists

Fuel Executive Order

- Authorizes ODOE to implement the strategies in the Oregon Fuel Action Plan in response to a Cascadia Subduction Zone Earthquake and Tsunami
Federal State Structure

- Designated lead state and federal agency for each ESF sector
- ESF 12 federal lead is U.S. Department of Energy
- Structure for states to request and receive federal and military resources in response to emergencies

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<tr>
<th>ESF</th>
<th>Sector</th>
<th>Primary State Agency</th>
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<tr>
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<td>Oregon Public Utility Commission (electricity-natural gas)</td>
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<td>18</td>
<td>Business and Industry</td>
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Washington refineries supply more than 90 percent

- About 90 percent by Olympic Pipeline to Oregon
- Remaining product by tanker ships to Oregon
- Portland Fuel Hub – located on liquefiable soils **anticipate significant fuel supply loss**

Utah refineries supply less than 5 percent to eastern Oregon communities

California refineries supply less than 5 percent to southern Oregon communities
Annual fuel imports estimated at three billion gallons

Six day fuel delivery cycle

Product delivered throughout Oregon by pipeline, barges, and tanker trucks
Oregon Supply & Distribution System Lacks Flexibility

- Refineries in Washington State operating at near capacity
- Portland Fuel Hub terminals reserve less than 7 day supply of fuel
- Retail service stations reserve 2 – 3 day supply of fuel
Olympic Pipeline built in the 1960s without seismic design standards

Only 3 of the hundreds of fuel tanks at the Portland fuel hub to survive Cascadia

Marine docks receiving fuel will be damaged with moderate earthquake
Oregon Fuel Action Plan

- Identifies ODOE authority and responsibilities to control and direct the state’s overall response to petroleum emergencies
- Provides structure for federal, state, county, tribal and industry coordination
- Provides structure for fuel allocation that identifies pre-approved priority users of fuel and user responsibilities
- Identifies state and county priority lifeline routes to support fuel deliveries
- Pre-designates Fuel Points of Distribution (FPOD) for receiving emergency fuel
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<tr>
<th>Action 1</th>
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<th>Action 3</th>
<th>Action 4</th>
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<td>Action 3</td>
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<td>Activation and Authorities</td>
<td>- Initial Notifications</td>
<td>- Assess impacts to petroleum infrastructure</td>
<td>- Assess fuel availability in Oregon</td>
<td>- Identify &amp; obtain fuel source</td>
<td>- Issue voluntary fuel conservation measures</td>
<td>- Obtain temporary environmental operational, and safety waivers as needed to ensure the timely delivery of fuel</td>
<td>- Review &amp; approve/deny fuel requests (ESF Primary State Agencies, counties &amp; tribes)</td>
<td>- Allocate fuel to support recovery activities</td>
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<td></td>
<td>- Activate ODOE AOC</td>
<td>- Estimate timeline for repairs</td>
<td>- Assess 18 state ESFs, counties, and tribal fuel needs</td>
<td>- Identify viable fuel delivery options into Oregon</td>
<td>- Issue mandatory fuel conservation measures</td>
<td>- Allocate fuel to approved state agencies, counties &amp; tribes</td>
<td>- Governor’s Recovery Cabinet</td>
<td>- State Recovery Coordinating Team - SRF 6</td>
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<td></td>
<td>- Succession &amp; Authorities</td>
<td>- Provide fuel sector info &amp; status updates</td>
<td>- Determine state &amp; regional fuel priorities</td>
<td>- Identify viable options for dispensing fuel</td>
<td>- Obtain Odd/Even Fuel Allocation</td>
<td>- Odd/Even Fuel Allocation</td>
<td>- Odd/Even Fuel Allocation</td>
<td>- Governor’s Recovery Cabinet</td>
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**ODOE Emergency Response Structure**

- **24/7 Response Capabilities**
  - Key objectives
  - Task checklists
  - Guidance documents
  - Reference materials

**Response Position Procedures:**
- **Tribal Liaison**
  - Burns Paiute Tribe
  - Confederated Tribes of the Coos, Lower Umpqua & Siuslaw
  - Confederated Tribes of the Siletz Indians
  - Confederated Tribes of the Grand Ronde Community
  - Confederated Tribes of the Umatilla Indian Reservation
  - Confederated Tribes of the Warm Springs Reservation
  - Coquille Indian Tribe
  - Cow Creek Band of Umpqua Tribe of Indians
  - Klamath Tribes

**County Liaison Manager**
- Region 1
- Region 2
- Region 3
- Region 4
- Region 5

**Fuel Allocation Coordinator**

**Fuel Supply Assessor**

**Federal Agency Liaison**
- ESF 1: Transportation
- ESF 2: Communications
- ESF 3: Public Works
- ESF 4: Fire Fighting
- ESF 5: Info & Planning
- ESF 6: Mass Care
- ESF 7: Resource Support
- ESF 8: Health & Medical
- ESF 9: Search & Rescue
- ESF 10: Hazardous Materials
- ESF 11: Food & Water
- ESF 12: Energy
- ESF 13: Military Support
- ESF 14: Public Information
- ESF 15: Volunteers/Donations
- ESF 16: Law Enforcement
- ESF 17: Agriculture & Animal Protection
- ESF 18: Business & Industry

**Federal Emergency Management Agency**
- U.S. Department of Energy
- U.S. Coast Guard
- Other Federal Agencies as Needed

**Petroleum Industry Liaison**
- Fuel Terminals & Corporate Offices
- Refineries
- Pipeline Companies
- Petroleum Associations
- Other Industry Agencies as Needed

**EOC Manager**
- EOC Facilities Specialist
- WebEOC Specialist
- Graphics Specialist
- Event Log Recorder
- Messengers
- ODOE Reception Desk

**PIO**
- Deputy PIO
- Social Media Liaison
- News Center Manager
- Telephone Info. Center Manager
- Phone Team Operators (4)

**Agency Operations Center**

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Region 1: Clackamas, Hood River, Multnomah, & Washington Counties
Region 2: Benton, Clatsop, Columbia Lane, Lincoln, Linn, Marion, Polk, Tillamook & Yamhill Counties
Region 3: Coos, Curry, Douglas, Jackson, & Josephine Counties
Region 4: Crook, Deschutes, Gilliam, Jefferson, Klamath, Lake, Sherman, Wasco, & Wheeler Counties
Region 5: Baker, Grant, Harney, Malheur, Morrow, Umatilla, Union, Wallowa Counties

*ODOE positions in teal are required for full EOC activation. (One individual can fill more than one required position if appropriate)*
**Challenge** - Allocating fuel to emergency and essential service providers in the state involves 120 state agencies, 36 counties, 240 cities, and 9 federally-recognized tribes.

**Standardized Structure** – Identifies three categories of priority fuel users:
- 18 ESF Primary State Agencies
- 36 Counties
- 9 Federally-Recognized Tribes
## Priority Fuel Users: Responsibilities

### Prior to an Emergency
- Identify and assess fuel needs for critical missions for sector or jurisdiction of responsibility.
- Identify all fueling locations in the county – Initial fuel source for life safety missions.
- **Estimated 3 weeks** before bulk fuel supplies can be brought into some communities.

### Wheeler County Example

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<th>Name</th>
<th>Address</th>
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<td>44.8368651</td>
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</table>
INITIAL AIR RESPONSE ACTIVITIES

Required Support: Federal, Military, and Industry

Bulk Fuel Source – Outside Region

- Bulk fuel “pushed” into the federal Incident Support Base - Redmond Municipal Airport
- Initial daily bulk fuel push
  - Unleaded gasoline – est. 75,000 gallons
  - Diesel – est. 400,000 gallons
- ODOE directs movement of bulk fuel from federal ISB to State Staging Areas and to the pre-designated fuel points in the impacted communities
Fuel Strategy: State and Local Lifeline Routes

- **State Lifeline Routes** - Guide initial repairs on the transportation, power, and communication systems to support the delivery of fuel to the impacted communities

- **County Lifeline Routes** – Counties to identify local priority routes that connect to state lifeline routes

- **Fuel Points of Distribution (FPOD)** - Pre-designate FPODs to receive emergency fuel supplies

- **Marion County Example:**
  - Identified Tier 1 priority routes connecting to state lifeline routes
  - Pre-designated 9 FPODs to receive emergency bulk fuel supplies

**ODOE has fuel data from 24 of 36 counties**
Fuel Pre-Drafted Mission Assignments

Fuel Testing Kits – Test fuel quality at FPODs for water seepage and other impurities

Air Drops – Transport fuel by air to FPODs until roadway transportation is viable (1,000 – 3,000 gallon capacity)

Refuel On the Move – Mobile fueling capabilities to support road, utility, and communications crews (5,000 – 10,000 gallon capacity)

Bulk Tanker Drops – Bulk fuel deliveries over land when roadways are viable (5,000 – 10,000 gallon capacity)

Fuel Tank Farms – Infrastructure and operational support for portable fuel tank farms (100,000 gallon capacity)
Fuel Pre-Drafted Mission Assignments

**Fuel Barges** – Store and offload fuel to support emergency response and recovery activities along the Columbia River

**Maritime Assets** – Deliver bulk fuel and operate portable fueling points along the Oregon Coast

**Foreign Vessels** – Lift Jones Act to allow foreign vessels to deliver bulk fuel to Oregon ports

**Rail** – Transport, store, and offload fuel to support emergency response and recovery activities along the Columbia River and into Portland
Strategies for all types of emergencies resulting in long-term or severe fuel disruptions and shortages

Plan Activation in Response to Actual Events
- December 2016 Winter Storm
- August 21, 2017 Solar Eclipse
- Summer 2017 Statewide Fire Response

Ongoing Training: Industry, Federal/Military, State, & Local
- January 25, 2018 Fueling Anxiety Exercise – Portland Metropolitan Region (Clackamas, Columbia, Multnomah, and Washington Counties)
- Summer 2018 Fuel Sector Exercise – Oregon Coast Region

Program Readiness – Annual Plan Update
Oregon Fuel Action Plan

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