



NW Innovation Works (NWIW) is investing \$1.8 billion in the construction of facilities at the Port of Kalama to meet the global need for clean methanol manufacturing. The facilities will implement innovative technologies, such as Ultra-low Emissions (ULE) and Zero Liquid Discharge (ZLD), to protect our environment, decrease emissions, reduce waste, and reuse resources.

Our Community



The safety of our community, employees, and environment is our top priority.

NWIW facilities will exceed local, state, and federal regulations that address the safety of our employees and surrounding communities.

Our facilities will employ a safe, enclosed system for handling all natural gas, processing chemicals, and production.

The occupational risk level is lower than other industries such as logging, fishing, forestry, and structural workers.



1 in 100,000

The risk to workers on-site was calculated to be 1 fatality in 100,000 years for workers on the production lines and 1 fatality in one million years in the bulk product storage area.

Low Injury Rates

The risk of injury is low for chemical manufacturing and water transportation in the United States.

The rate of injury and illness cases per 100 full-time workers ranged from 2.0 to 2.4 between 2011 and 2013 (the most recent year reported).



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Emergency Preparedness

Trained emergency responders will be on-site and prepared to respond to plant emergencies, including fires, explosions, and injury.

They will also respond to other incidents, including hazardous materials, leaks, and public safety.



On-site Fire Station



An extensive fire suppression system, fire brigade, and emergency response vehicles will be at the fire station.

NWIW will work closely with first responders and regulatory agencies to develop contingency plans for potential emergencies.

A risk analysis concluded that the destructive force of a worst-case explosion would not extend outside the facility boundaries.

A critical component of our safety plan is ensuring our project site is earthquake ready.

The Kalama facility will be able to withstand a 9.0 earthquake without structural failure.



A core aspect of this design will focus on stabilizing and densifying on-site soils.

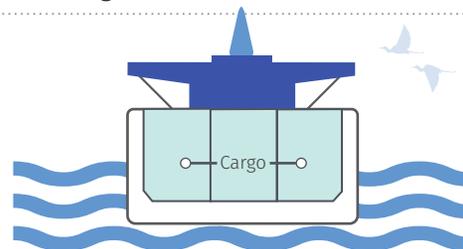
The Kalama methanol facility will be the safest and cleanest in the world. It will have instrumented safety systems to monitor all processes and a fire suppression system to maintain a safe workplace.

Our Environment

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The number of shipping vessels the project would require monthly.

Approximately 36 to 72 per year. This increase is minimal compared to historical levels for river traffic, which has ranged from 1,500 to 2,200.



The vessels used for transport would be double-hulled with segmented compartments.

The risk of a spill event associated with a project-related vessel in transit is low based on historical data.

In the event of a spill, methanol would dissipate into the environment and biodegradation would occur rapidly.

A potential methanol release into the Columbia River from ship loading or an accident in transport would not result in any significant adverse effects to human health or safety because of the very large size of the river and the short-lived duration of methanol in the environment.

Zero Liquid Discharge (ZLD)

ZLD technology will be used to remove contaminants from the wastewater so it can be reused in the facility, eliminating wastewater discharge into the Columbia River and impacts on aquatic life.



Double Green Bridge

NW INNOVATION WORKS