



## energize**EASTSIDE** corridor safety

November 2017

### Safety is PSE's top priority

As the largest natural gas utility in Washington, we understand pipeline safety concerns and employ safe procedures when working near pipelines. PSE approaches every project – from the smallest natural gas service installation to the largest transmission line – with the same priority: the safety of our customers, the communities we work in, and our fellow co-workers.

For Energize Eastside, PSE will continue to follow all safety regulations to maintain safety in the corridor. This includes building and operating the project to meet strict federal standards that govern both pipeline and transmission line infrastructure.

### PSE and Olympic's infrastructure have safely coexisted in the corridor for decades

The backbone of our transmission system on the Eastside shares a utility corridor with Olympic Pipe Line Company's (Olympic) underground petroleum pipelines. It's been this way for more than 40 years, and co-locating utilities is encouraged by many Eastside jurisdictions.

### PSE and Olympic working together

Both PSE and Olympic have a mutual interest in the continued protection and safe operation of facilities in the shared utility corridor.

We have a long history of working closely together. This close coordination ensures mutual safety of our infrastructure and of neighbors adjacent to and near the corridor.

### Focus on safety in design, construction and operations

Safety is critical to Energize Eastside's design. Newer technology and strict safety requirements allow PSE to build to the highest safety standards, which our design will meet or exceed. Our engineers are rigorously



In 2016, we coordinated with Olympic on the work plan and safe construction practices to replace two poles in Newcastle.

analyzing the design for Energize Eastside to ensure safe construction and operation of the line within the shared corridor.

We've worked with DNV GL, a leading national expert in pipeline safety, to assist with developing design and operational parameters to help ensure continued safe operations of the co-located utilities.

As we get to construction, our engineers will work closely with Olympic to develop a project-specific safe construction plan. Construction will entail installation of new, longer-lasting equipment, and fewer poles that will typically be farther away from the pipeline than the poles are today.

Once construction ends, PSE and Olympic's safety coordination continues through day-to-day operations and ongoing communication.

### Frequently Asked Questions

#### What steps will PSE and Olympic take during and after construction to keep me and my family safe?

Our engineers will work closely with Olympic on a safe construction plan that may include:

- Having an Olympic representative on-site to monitor construction activities near the pipeline
- Installing temporary fencing or other markers around the pipeline area
- Placing a temporary protective cover (e.g., steel plates) over the pipeline to mitigate excessive load from heavy equipment
- Using specialized equipment or hand-digging within close proximity to the pipeline

Having worked with Olympic for decades, PSE knows firsthand that Olympic employs stringent standard operating practices, including:

- Using a cathodic protection system to suppress corrosion
- Meeting with Olympic's Damage Prevention Team on site at the start of the project and weekly thereafter if a project is within 100 feet of the pipeline to reinforce established safety protocols
- Requiring a Damage Prevention Team to be on site during any excavation within 10 feet of the pipeline

Once construction ends, PSE and Olympic's safety coordination will continue through day-to-day operations. This includes ongoing communication to keep each other informed of activity in the corridor. Additionally, Olympic regularly inspects its pipeline and monitors its operation 24 hours a day.

### What changed after the DNV GL safety study?

DNV GL, a national pipeline safety consulting firm, confirmed that Energize Eastside can be safely co-located with Olympic's pipelines throughout the existing corridor. As a result of the study, PSE optimized the project design and plans for operations. PSE plans to operate both lines at 230 kV within the existing transmission line corridor to reduce the potential for pipeline interaction.

### Who regulates PSE and Olympic to ensure they are implementing safety procedures correctly?

Interstate pipelines, whether they transport natural gas or liquid petroleum products, are held to both state and federal safety regulations administered by the:

- Federal Energy Regulatory Commission
- US Department of Transportation's Pipeline and Hazardous Materials Safety Administration

- Washington State Department of Transportation
- Washington Utilities and Transportation Commission

### Are there safeguards in place if extreme weather affects the corridor?

Our design will meet or exceed industry standards and address seismic activity, high winds, ice and lightning. For example, to protect against lightning, our designs call for grounding the poles and using shield wires to disperse current safely.

### Can you give more examples of PSE and Olympic working together?

- In 2007 and 2008, PSE worked with Olympic to replace more than 130 poles and reframe more than 200 poles in this corridor and others.
- In 2015, PSE successfully completed more than 50 geotechnical investigation borings within the existing corridor. Half of these geotechnical borings took place in the vicinity of the Olympic pipeline.
- In June 2016, we replaced two poles adjacent to the pipelines to address an imminent safety concern created by the construction of new apartments in Newcastle. We met onsite with Olympic's Damage Prevention Team to review construction activities to help ensure safe construction practices were followed.

### Interested in learning more?

- Learn more about Energize Eastside and pipeline safety at [energizeeastside.com/safety](http://energizeeastside.com/safety)
- For comments and/or questions about safety:
  - Email: [energizeeastside@pse.com](mailto:energizeeastside@pse.com)
  - Project information line: **1-800-548-2614**
- Review the pipeline safety risk analysis in the Phase 2 Draft Environmental Impact Statement at [www.energizeeastsideeis.org/library.html#phase2](http://www.energizeeastsideeis.org/library.html#phase2)
- For information about Olympic's safety practices, visit the Pipeline and Community Safety page at [bp.com/en\\_us/bp-us/what-we-do/bp-pipelines/pipeline-and-community-safety.html](http://bp.com/en_us/bp-us/what-we-do/bp-pipelines/pipeline-and-community-safety.html)