



InPipe Contract Amendment

February 24, 2025



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What is InPipe?



- Electricity generating turbine placed adjacent to high pressure water line
- Water flows are diverted through turbine, generating electricity
- Electricity is used to offset power consumed at Tualatin City Services



Project Status



Council authorized contract in June 2024 (\$690,295)

Began project design in Summer/ Fall 2024

- Currently at 60% design

Secure external funds

- Secured \$576,375 to date
- Expect \$852,463 total

Explore ways to maximize benefits

- Microgrid feasibility Analysis



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Original Design

Simple alignment with minimal underground work

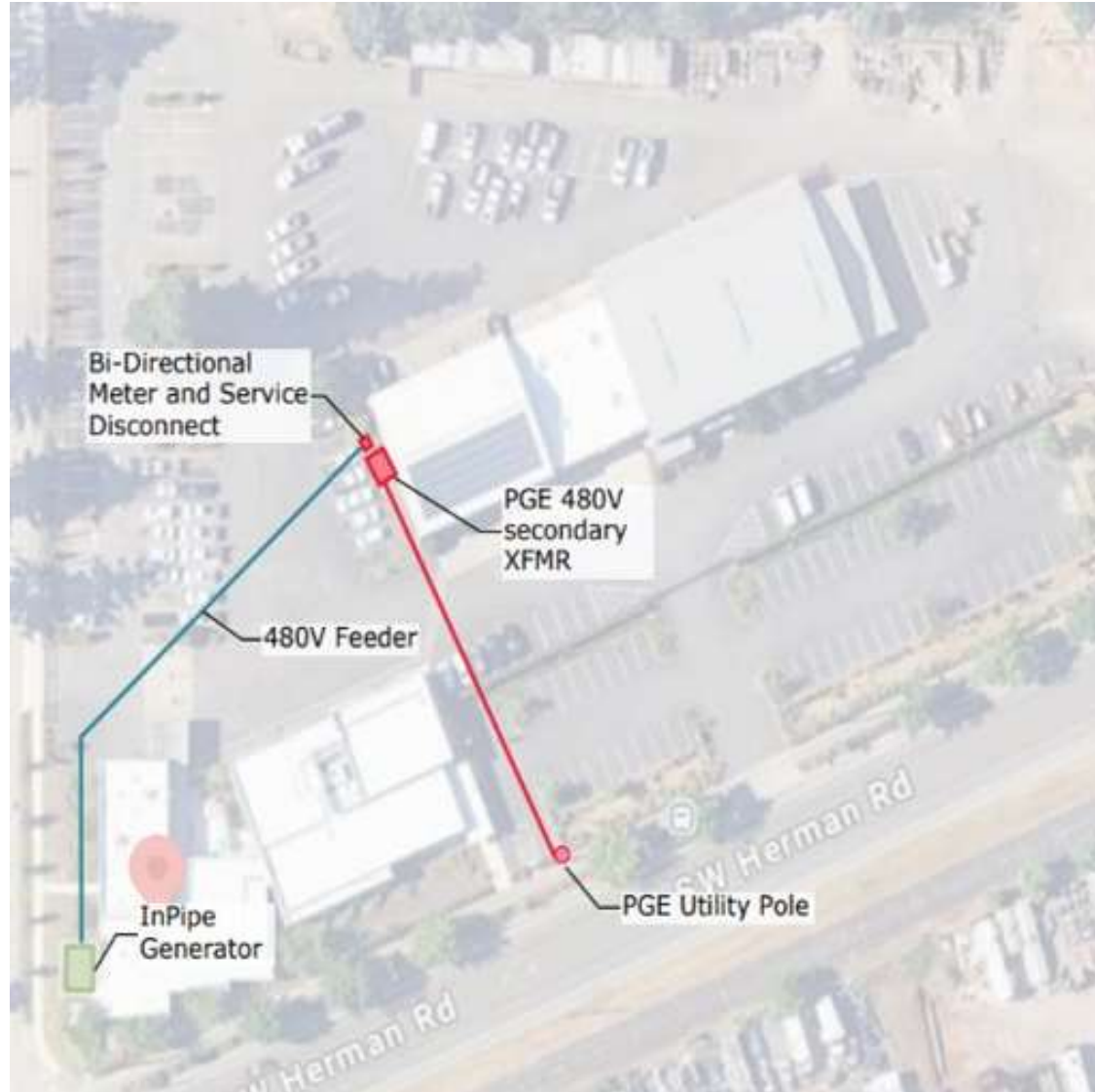


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Proposed Change Order

Key Difference

- Centralize equipment to interior of TSC site
- A bit more underground work
- Lots more flexibility



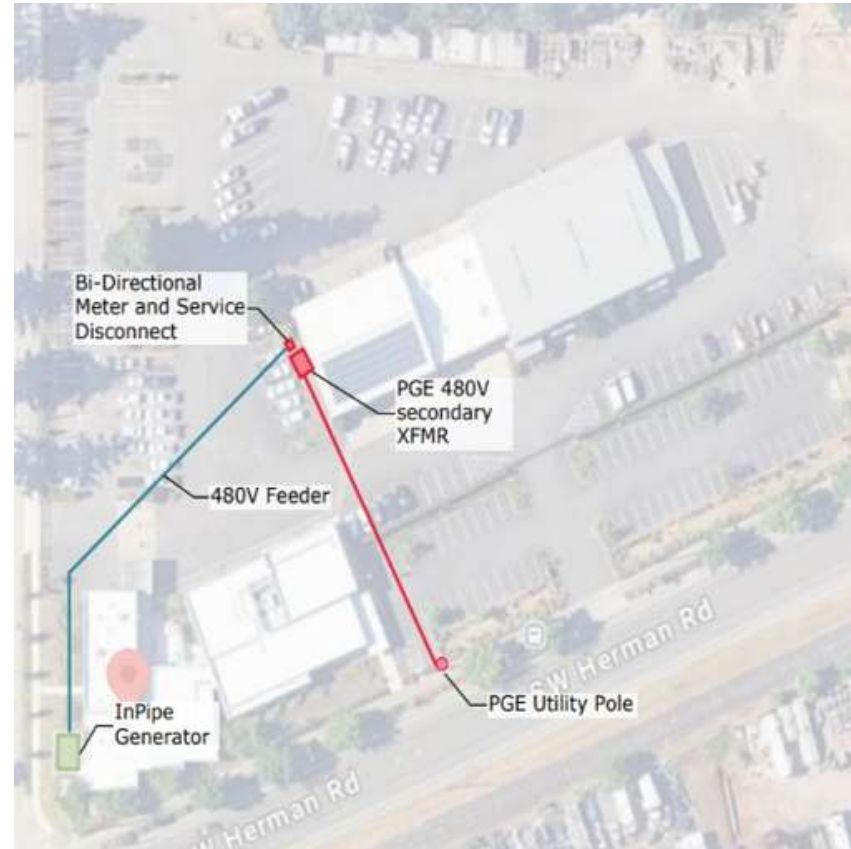
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Proposed Change Order



Benefits

- Increased service size for future flexibility in electricity use
- Most flexibility with InPipe energy
- Improved security
- Allows future resiliency improvements
- Allows future expansion of renewable energy generation and storage



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Change Order Cost



| | |
|-----------------------|-----------|
| Current Contract | \$690,295 |
| Proposed Change Order | \$230,410 |
| New contract | \$920,705 |

Original commitment was a maximum City cost of \$214,000 and a payback period of at least 7 years

With external funding secured and expected and change order, City cost expected to be \$64,420 with a payback period of 4.4 years.



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Action



Resolution 5870-25 Authorizing the City Manager to execute a contract amendment to the Construction Project Contract with InPipe Energy, Inc. and Tapani Inc. for the InPipe micro hydro turbine project



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