

Organizational Info

Organization Name: FortisBC

Presenter: Mark Warren

Organization URL: <https://www.fortisbc.com/>

Challenge Synopsis: FortisBC is interested in pursuing the following emission reduction initiatives:

- Increasing energy efficiency of homes and businesses
- Investing in low and zero-carbon vehicles and transportation infrastructure
- Increasing Renewable Gas inventory by increasing Renewable Natural Gas (RNG) supply and advancing hydrogen deployment

Challenge Statement & Context:

Current Level 3 Direct Current Fast Charging stations require a three-phase power source capable of delivered at least 50 kW peak. However, there are locations within the FortisBC service territory that have only single-phase service available. FortisBC is interested in a solution that could provide DC fast charging service at these locations. Most likely this will require some form of local electricity storage or supplemental source of energy that can supply the additional power required for DC fast charging.

Response Criteria:

Level 3 DC fast charging station solutions should be:

- Capable of being powered from single-phase source
- Capable of at least five 50 kWh charging sessions per day at 50 kW
- Less than \$100k in price point

We are primarily interested in speaking with charging station manufacturers and electrical engineering firms, but we welcome all submissions.

We are also interested in hearing from partners who could offer solutions for:

- The production of renewable methane from new sources (at a less than \$30GJ price point)
- The production of low-cost green or blue hydrogen
- Micro-carbon capture from gas-appliances (sized for home and businesses)

Next Steps:

If interested in responding to this challenge and participating in this session, please contact John McPherson at the Vancouver Economic Commission: JMcPherson@vancouvereconomic.com.