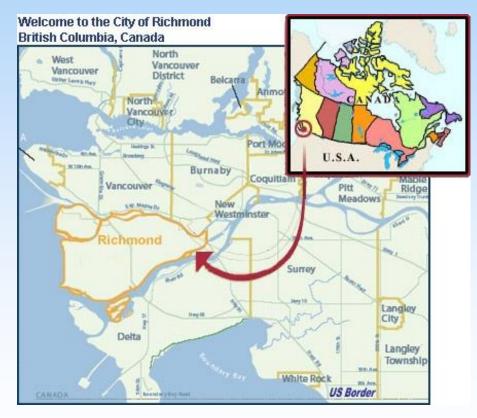


### OVAL VILLAGE DEU PRIVATE PUBLIC PARTNERSHIP A success story - What's next?

Presented By:

Alen Postolka, P.Eng, CEM, Manager District Energy, Lulu Island Energy Company Travis Hickford-Kulak, General Manager of Energy Services Canada, Corix Utilities

# Lulu Island Energy Company and City of Richmond



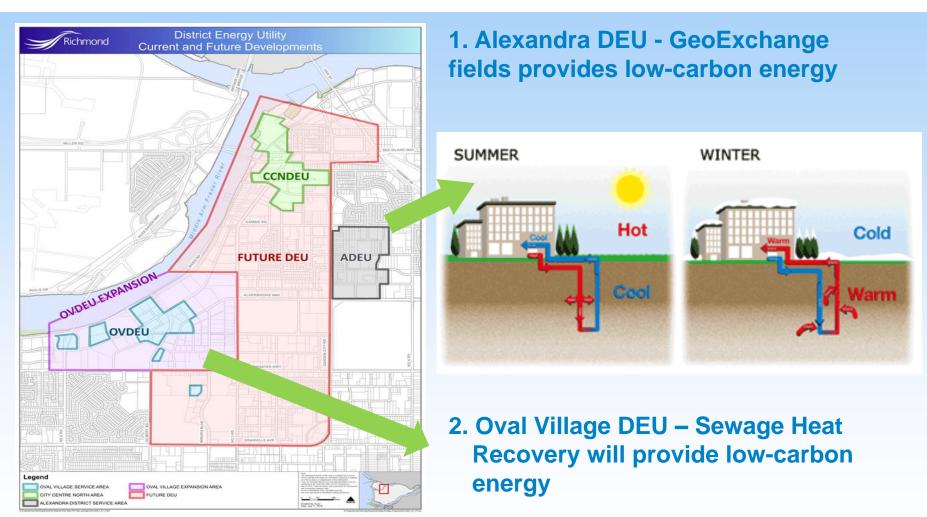


- Established in 2013
- Municipal corporation wholly owned by the City
- Manage district energy business on behalf of the City
- LIEC Board of Directors which reports to City Council
- http://www.luluislandenergy.ca/





## District Energy in Richmond







# **Corix Utilities Inc.**

- A Canadian owned community-focused provider of utility infrastructure services located in 20 states and 3 provinces
- Own and/or operate over 1,200 utility systems, with over 900 employees
- We design, build, install, finance, own, and operate energy, water, and wastewater utility infrastructure
- We currently operate 15 district energy systems (heating and cooling) that are delivered under various ownership models









## **Oval Village DEU, Richmond, BC**

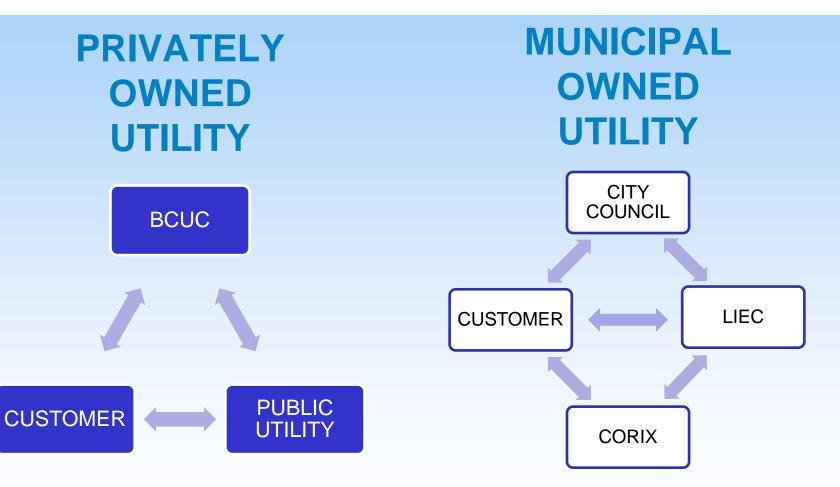


Utilities

- RFP award in 2010; Feasibility and Due Diligence 2010-2014
- Agreements executed in 2014 Concession based
- Over 600,000 m<sup>2</sup> of connected floor area
- Sewage Waste Heat Recovery with Natural Gas (24 MWt)
- Mandatory connection through municipal policy/bylaw



### Utilities Regulation in Province of British Columbia







## **Ownership / Governance Models Considerations**

# Flexibility, Participation and Risk Sharing

- Development Forecasting
  - Implementation of DEU Bylaw
  - Integration into Planning and Permitting processes
- Capital Planning Process
  - Deployment of infrastructure "just in time"
  - Use of interim plants

# Rate Setting

- Transparent process; use of Cost of Service
- Council Approval of Rates





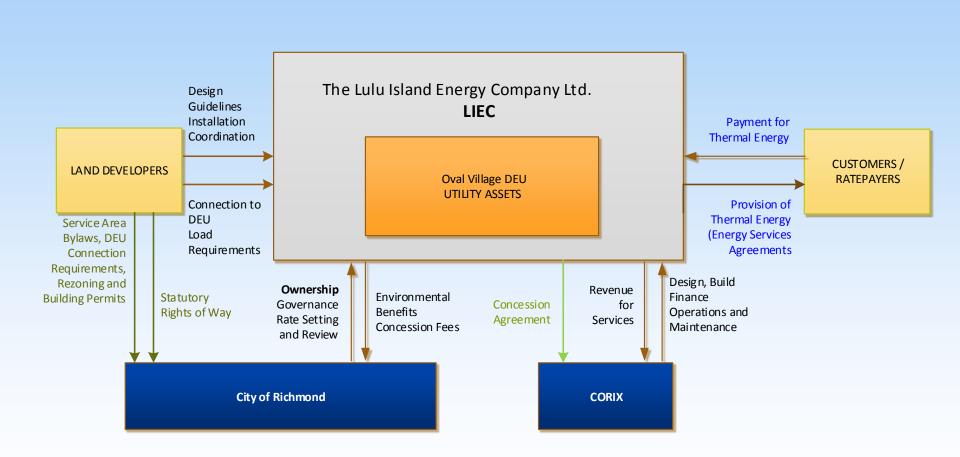
# District Energy and Municipal Land Development Policies

- Official Community Plan
- Rezoning Considerations
- Permitting Process
  - Development Permit
  - Building Permit
  - Occupancy Permit
- Service Area Bylaw





### Oval Village DEU Business Model







# **Roles and Responsibilities**

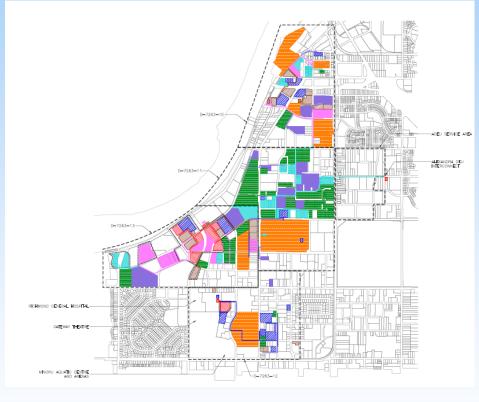
#### Corix Utilities

- Design, Build, Finance, and Operate
- 30 Year Concession Right
- Cost of Service based rates
- Lulu Island Energy Company
  - Owner
  - Customer Service and Billing
  - Final Rate Setting (City Council Regulated)





#### What's Next? City Centre DEU



- RFP award in 2017; Feasibility and Due Diligence 2018 (Ongoing)
- Agreements in negotiation Concession based
- Over 5,700,000m<sup>2</sup> of incremental connected floor area to OVDEU
- Estimated peak demand of 154 MWt of Heating and 80 MW of Cooling
- Mandatory connection through municipal policy/bylaw







#### OVAL VILLAGE DEU PRIVATE PUBLIC PARTNERSHIP A success story – What's next?

THANK YOU