District Energy in Surrey BC Expropriation Association Conference October 23, 2015



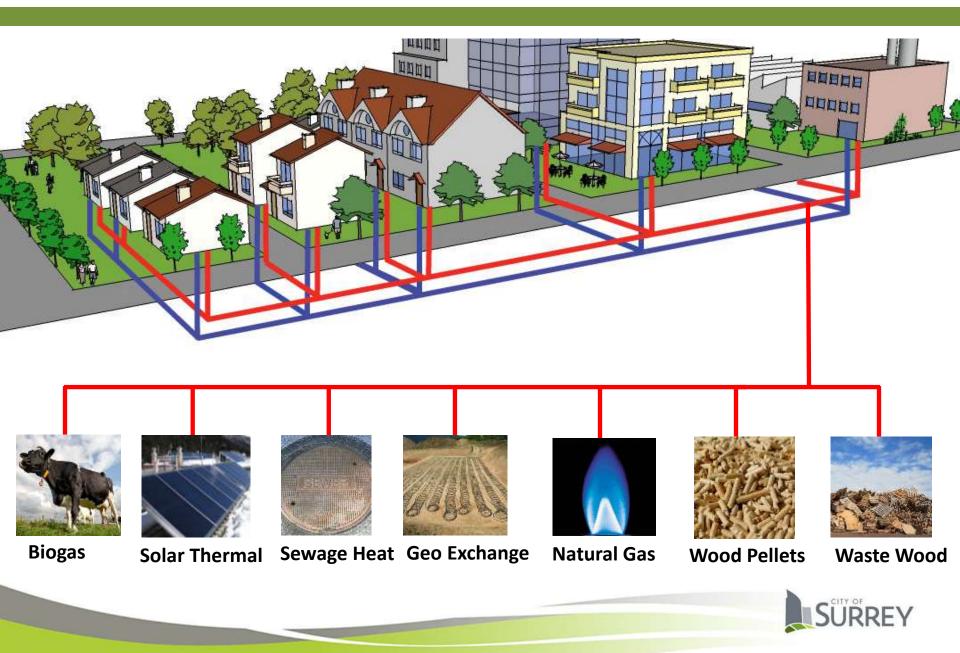


Surrey City Energy

- Hot-water district energy in City Centre
- 100% Municipally-owned
- Operational unit of Engineering Dpt.



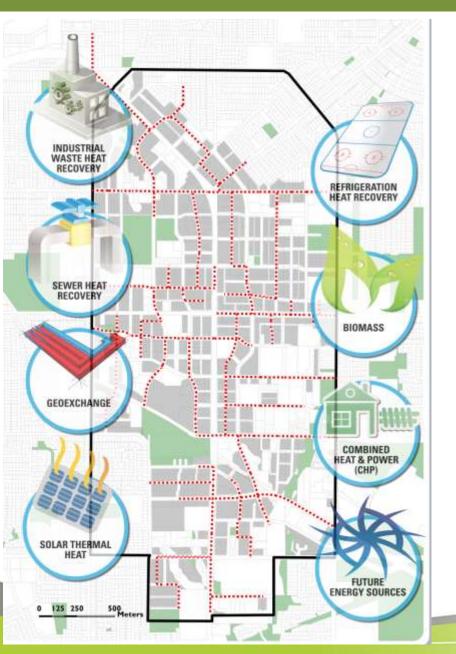
What is District Energy?



DE Objectives

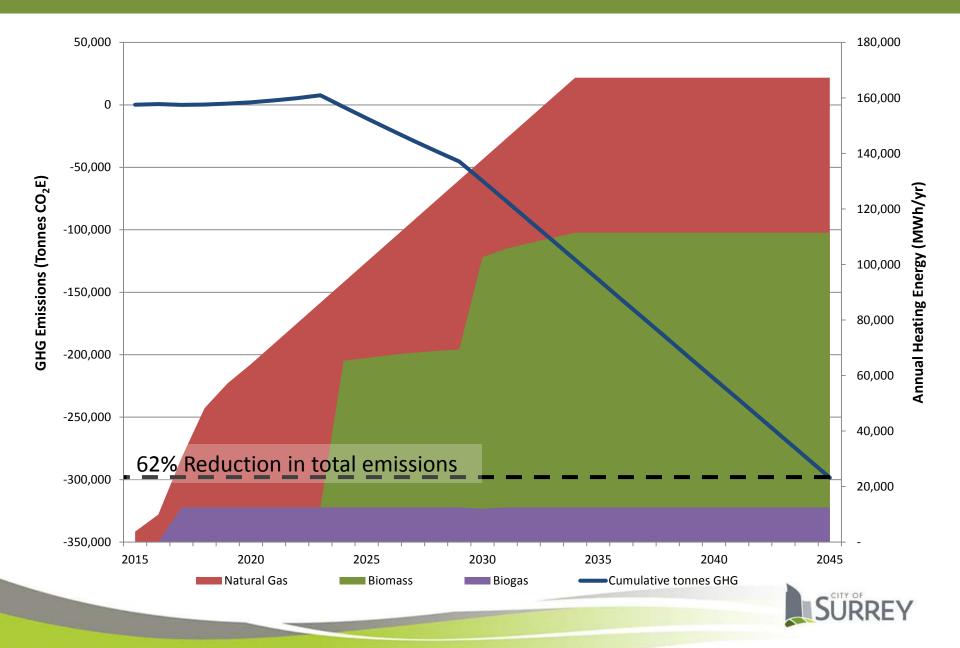
Resilient Infrastructure; Neighborhood-Scale GHG Reductions; and Long-Term Energy Price Stability

The Vision

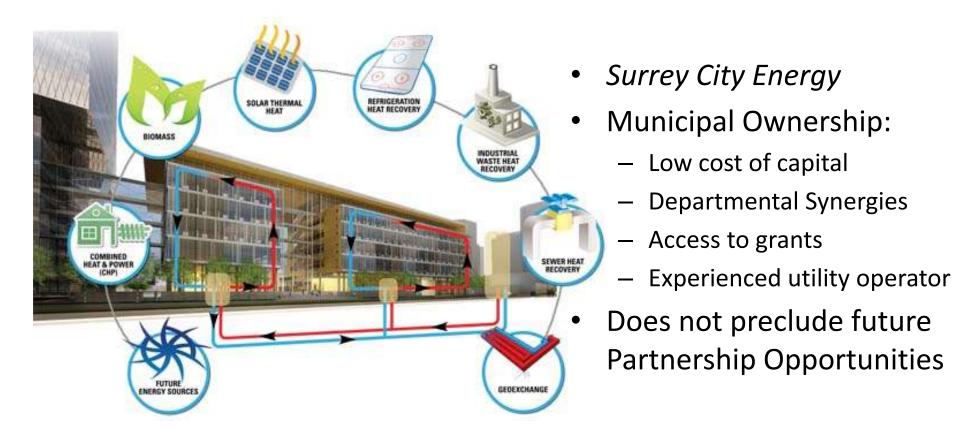




Neighborhood-Scale GHG Reductions



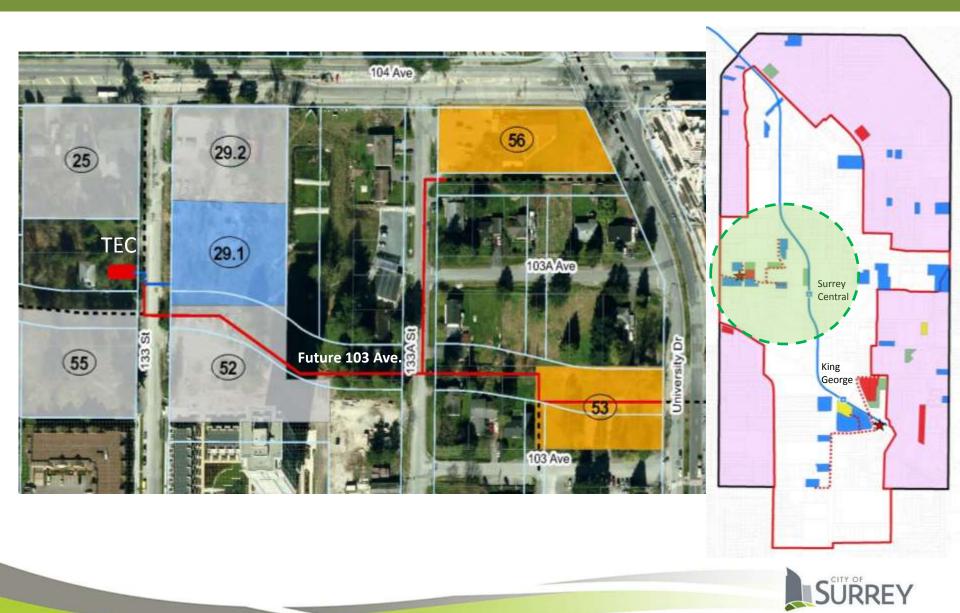
Ownership Model



Surrey City Energy is be owned and operated as a business unit of the Surrey Engineering Department.



Current Projects





Site Build-out



Finer Grained Road Network





Distribution Piping System (DPS)



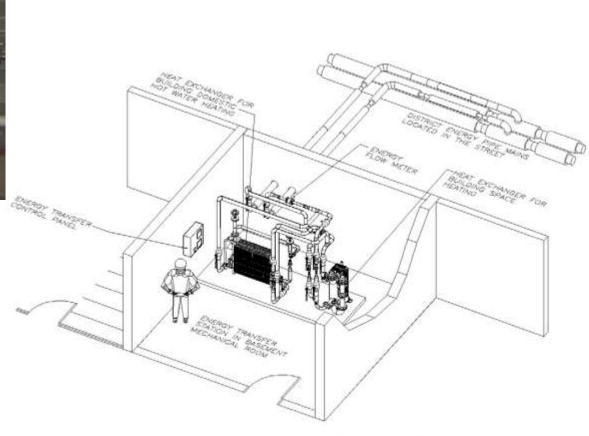
Infrastructure within Future Road Dedication





City Infrastructure Within Customer Building



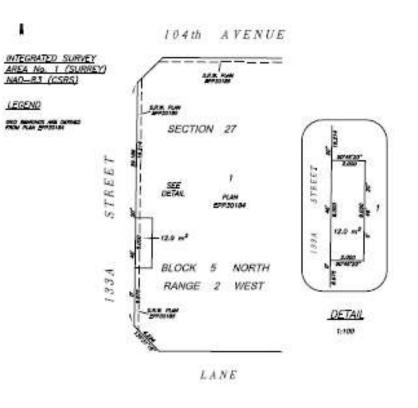




Required SRW Agreement

- 1. Blanket SRW
 - To construct, install, replace, maintain, etc. City-owned equipment
 - Have reasonable unobstructed access to the building for the above
 - Use the building infrastructure to convey heat.
- 2. Section 219 Covenant
 - Owner shall not build or locate any structures location shown in the Explanatory Plan

Explanatory Plan





Conclusion

- DE is a platform for the use of local, renewable, flexible heating sources
- DE can help communities reduce GHG's, improve energy resilience and stabilize longterm energy costs
- Acquisition of land is an essential requirement implementing DE systems





jowen@surrey.ca

