

Proven Clean Power Generation: District Energy



DISTRICT ENERGY
ST. PAUL[™]

Powering Cities of the Future

Washington Energy Summit 2011

September 27, 2011

District energy is a sustainable energy solution that *empowers* cities for the future.





1983



1993



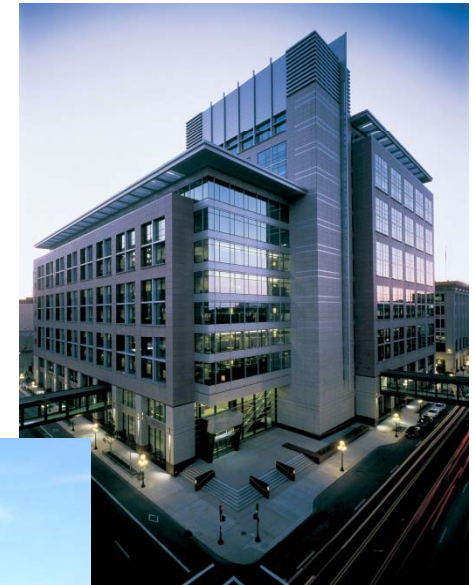
2003

- Serving **Saint Paul** customers since 1983
- **Minnesota's** leading renewable utility
- **North America's** largest hot water district energy system
- **International** model for system integration

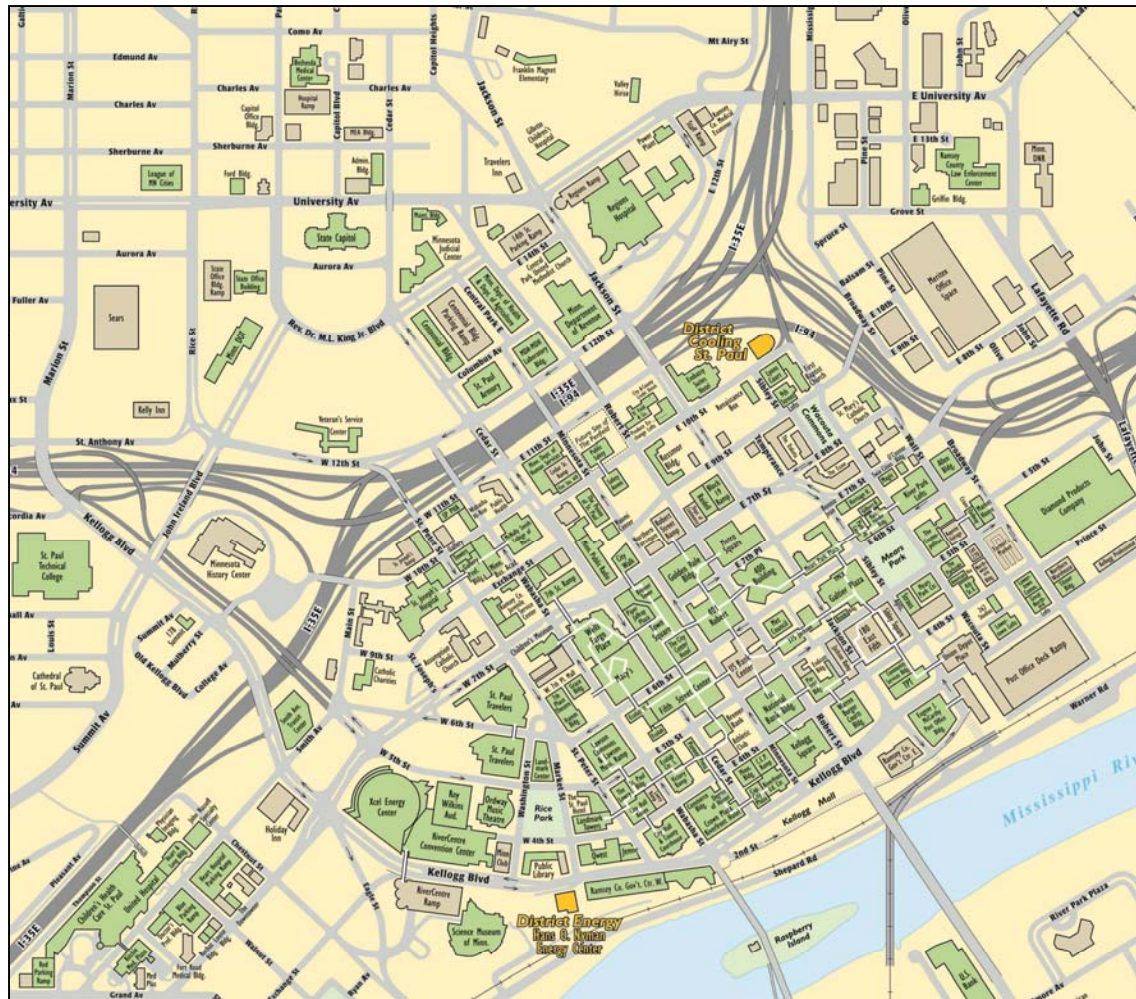
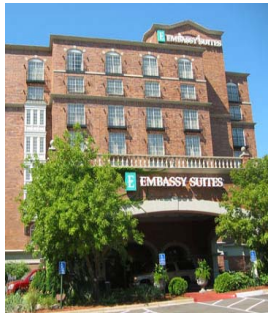


Our Mission

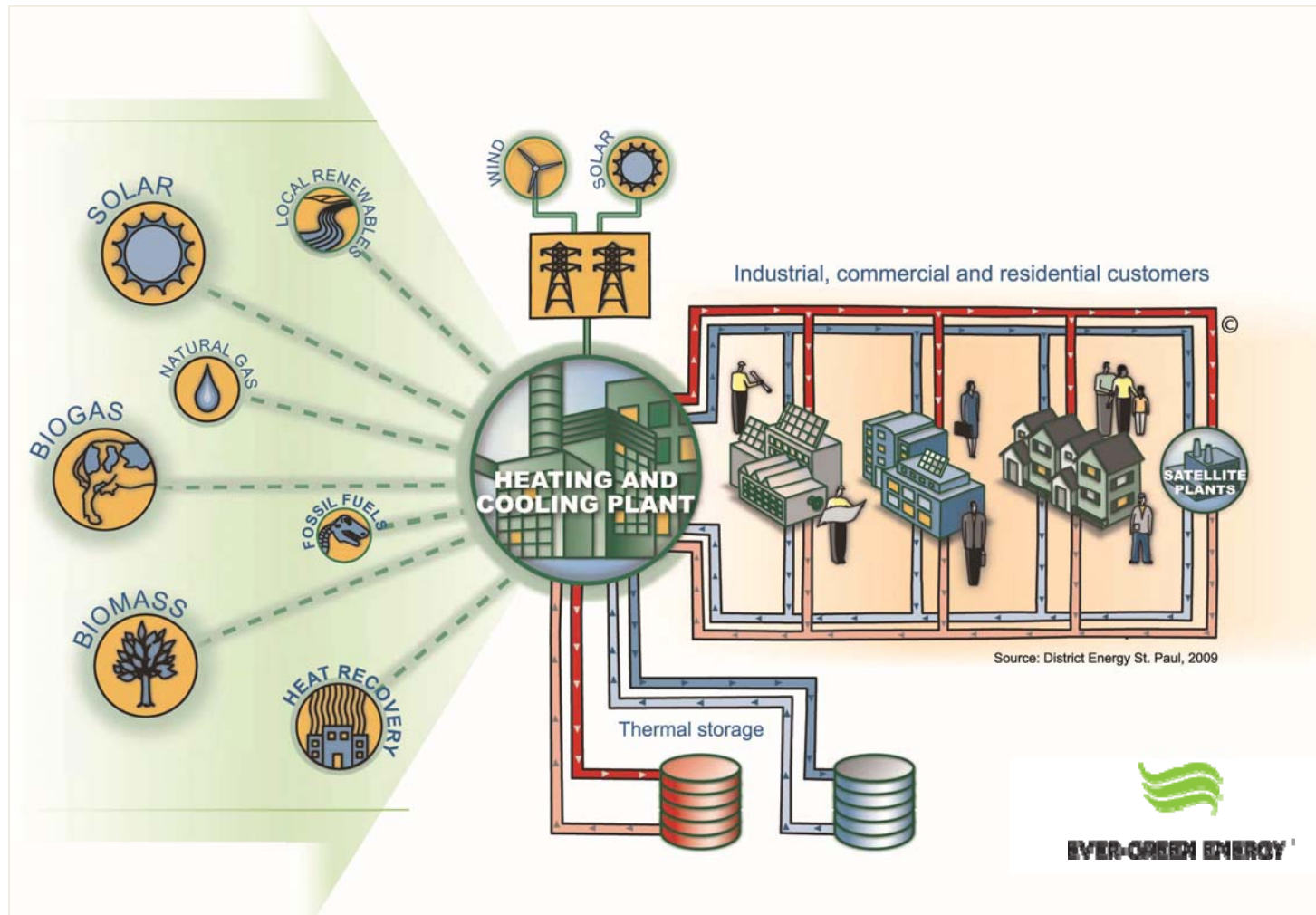
“Be the preferred provider of community energy services that benefit our customers, the community and the environment.”



Heating and Cooling Saint Paul



Integrated Energy System



Integration of Biomass-Fueled Combined Heat & Power



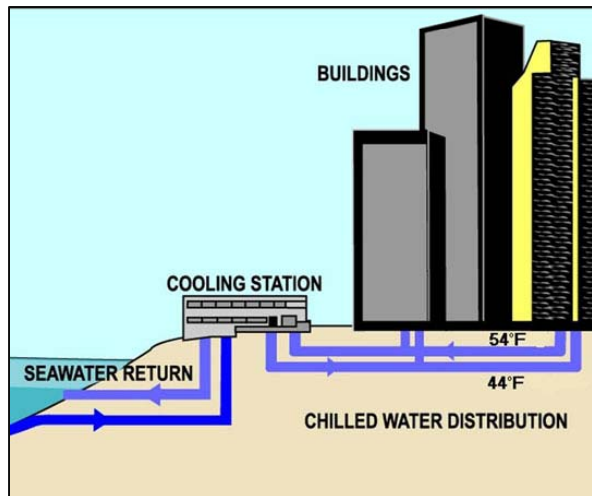
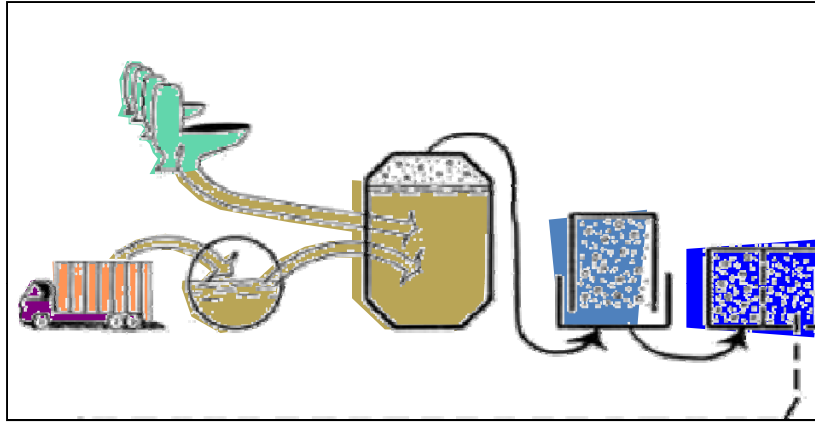
12,000 truckloads of clean wood residue diverted annually from the waste stream.



Integration of Large Scale Solar Thermal

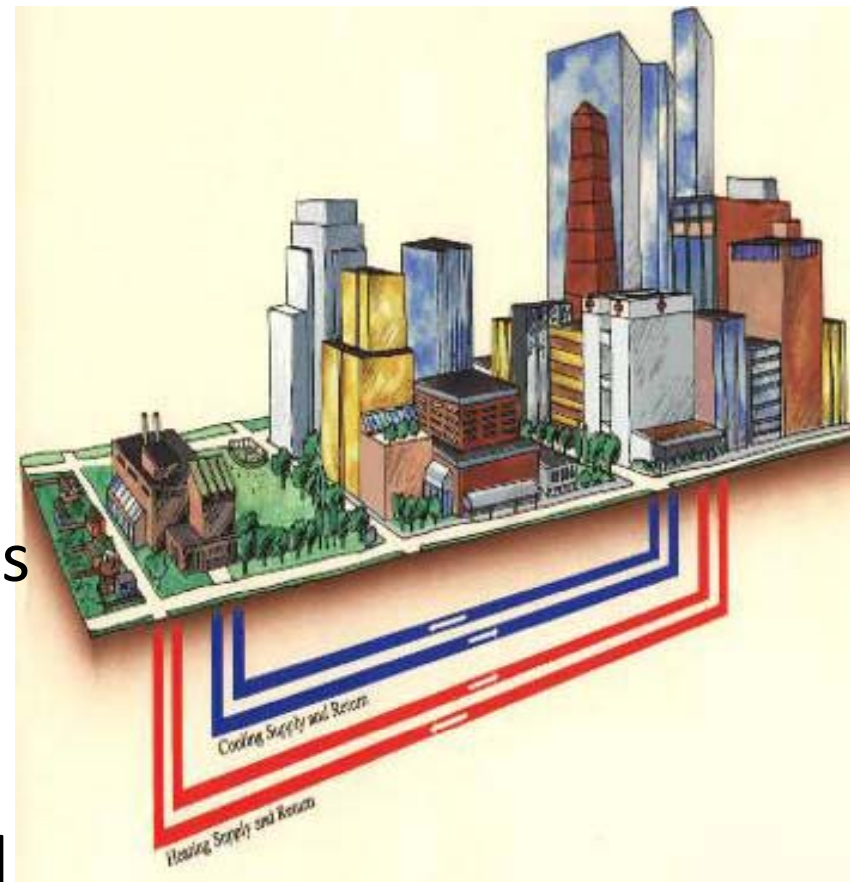


District Energy Enables Integration of Diverse Local Energy Sources



District Energy: Empowering Cities for the Future

- Enables integration and unlocks efficiency gains
- Improves security and reliability
- Reduce GHG emissions
- Stable and economical rates
- Solution for today with flexibility for tomorrow
- Planning, collaboration and partnerships are key



Thank You!



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