2012 Heating the Midwest Conference and Expo April 26, 2012

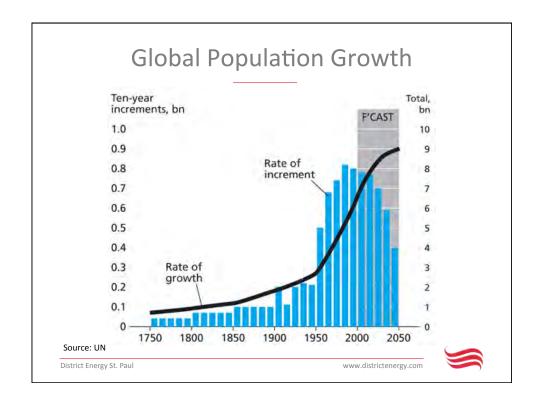


Setting a Big Vision for Regional Biomass Heating Systems

Drivers of the Current Energy System

District Energy St. Paul





PRESS RELEASE

March 26, 2012, 9:00 a.m. EDT

Growth in Urban Population Outpaces Rest of Nation, Census Bureau Reports

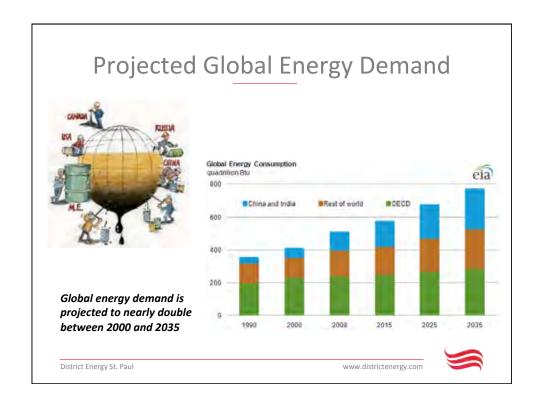


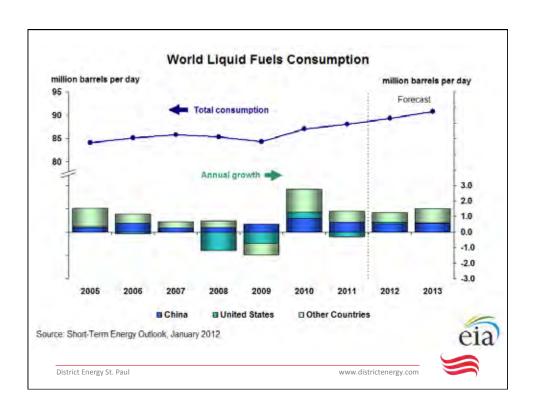
WASHINGTON, March 26, 2012 /PRNewswire via COMTEX/ -- The nation's urban population increased by 12.1 percent from 2000 to 2010, outpacing the nation's overall growth rate of 9.7 percent for the same period, PR Newswire according to the U.S. Census Bureau. The Census Bureau released the new list of urban areas today based on 2010 Census results.



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Imagine a World Without Oil

Time Left With Current Reserves At Current Consumption

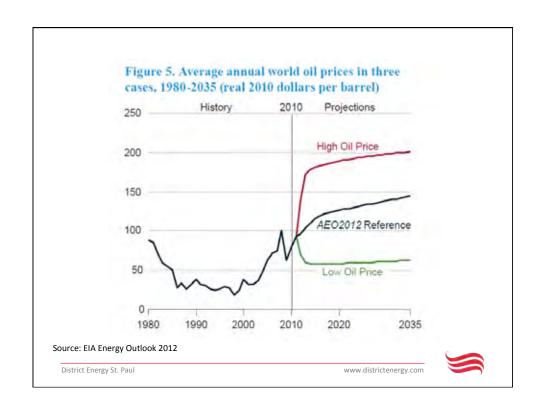


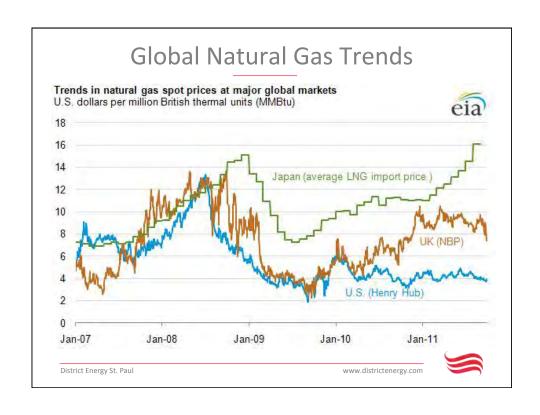


Source: EIA, University of MN http://www.environment.umn.edu/momentum/issue/3.3f11/feature_worldwithoutoil.html

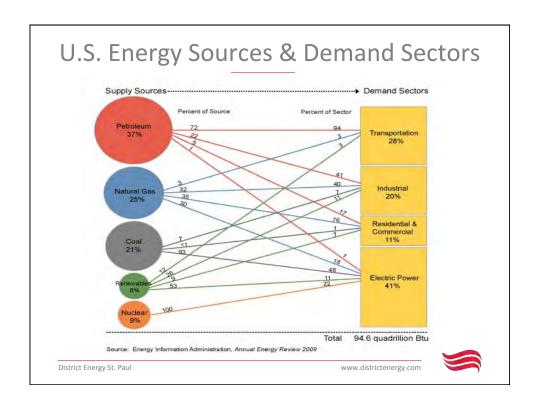
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Biomass is an age-old energy resource...



...with a renewed interest today.

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Woody Biomass – A Fuel Source for Schools and Communities





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Opportunity: Integrated Energy Systems

"If the heating, cooling and electricity needs of a larger collection of buildings can be linked together in an integrated system without major distribution losses, then significant savings in primary energy use are possible – beyond what can be achieved by optimizing the design of a single building. Community-scale energy systems also offer significant new opportunities for the use of renewable energy."

Intergovernmental Panel on Climate Change

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Saint Paul's Integrated Energy System

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Saint Paul's Community Energy System

- Serving Saint Paul customers since 1983
- North America's largest hot water district energy system
- Minnesota's leading biomass, renewable energy system
- A model for integration of renewable energy, combined heat and power and a district energy system

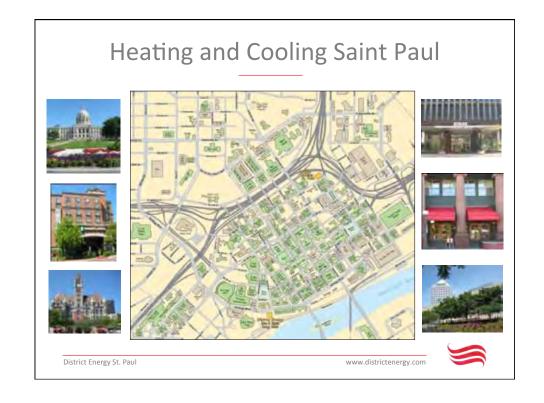


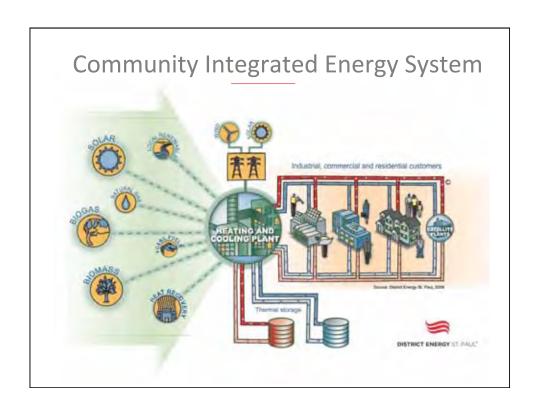
Biomass Fired CHP in Downtown Saint Paul

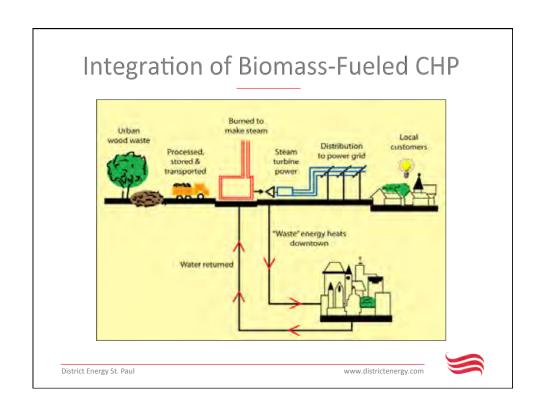
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St. Paul Cogeneration – Combined Heat & Power



- 25 MW of electricity
- Renewable, clean, urban wood residue
- Greenhouse gas CO₂ reduced up to 280,000 tons per year

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Integration of Biomass



- Up to 300,000 tons/year
- Clean wood waste diverted from landfills
- Created new industry for collecting and processing wood
- Up to \$12 million annually put into local economy

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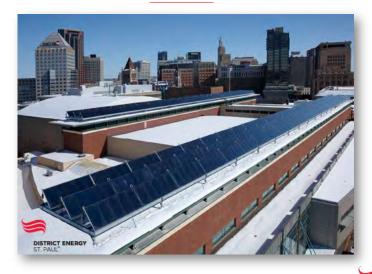
Biomass – Where does it come from?

- Wood residuals from manufacturing processes
- Construction waste/clean dimensional lumber
- Urban and park tree trimmings
- Storm and disease damaged trees
- Trees removed as part of a timber management plan/ restoration

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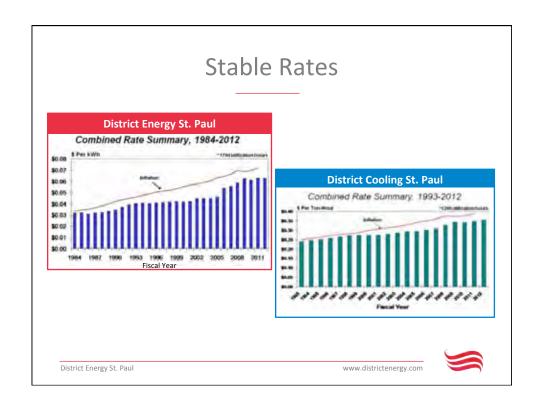
Solar Thermal Startup - 2011



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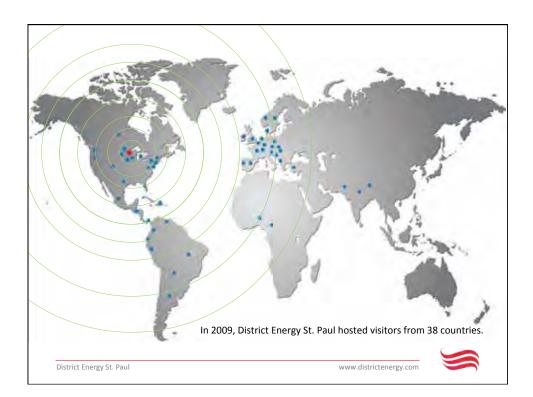
Satisfied Customers

"District Energy St. Paul's founding principles--energy efficiency, environmental stewardship, stable rates, reliability and customer service--and the company's track record of meeting them day in and day out, allow Travelers to locate many people here in Saint Paul. Because of District Energy's reliability, we can also locate vital information technology equipment operations in downtown Saint Paul where a unique setup allows us to meet our business needs in the most cost-efficient manner."

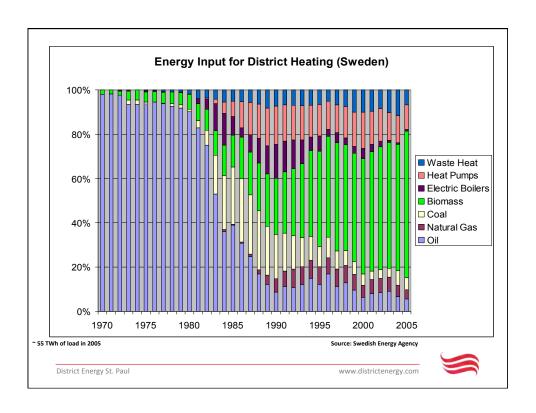
Jim Scannell, Senior Vice President Administrative Services

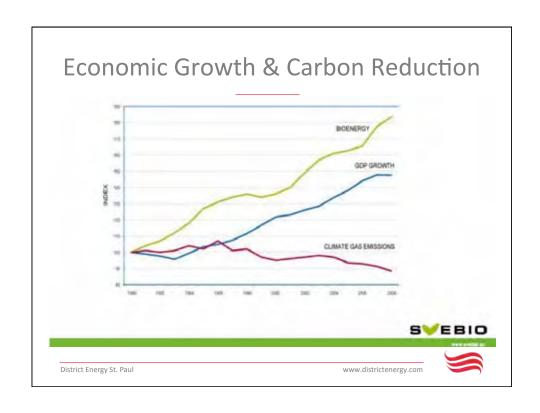


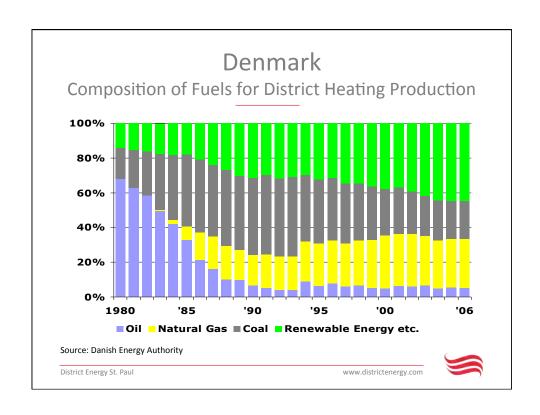
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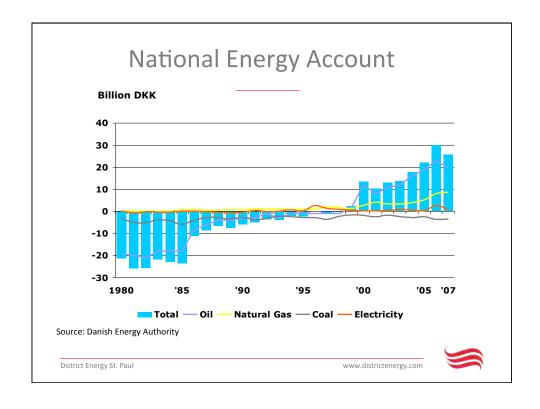


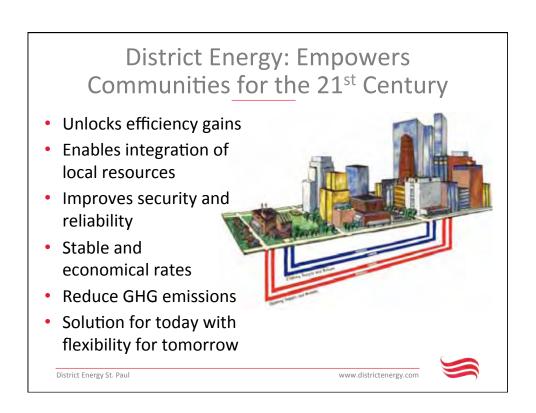
What is possible? District Energy St. Paul www.districtenergy.com







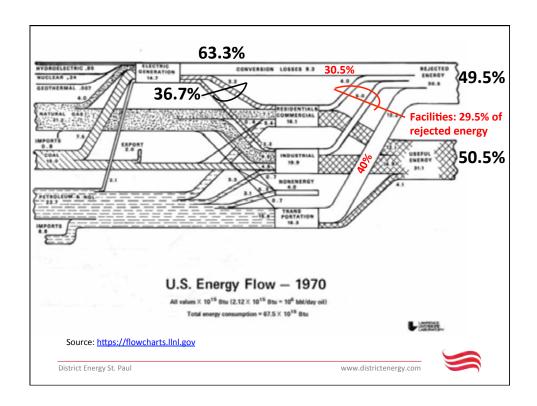


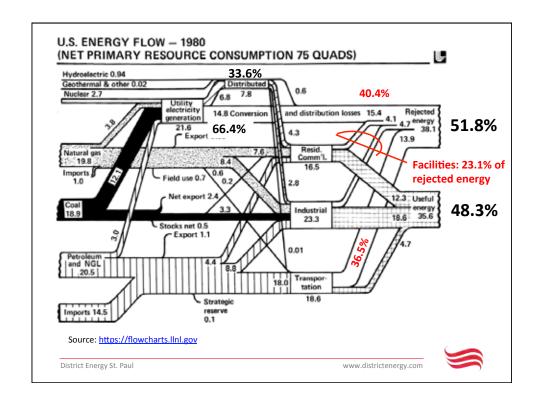


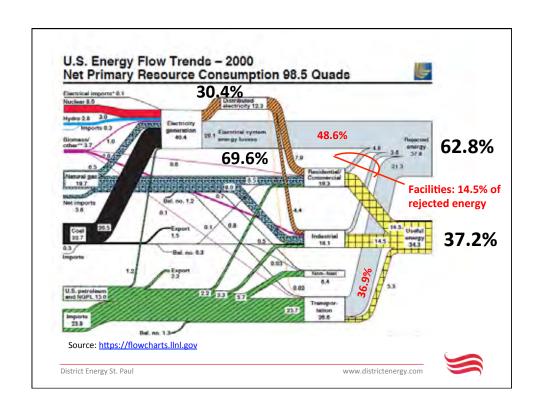
Why is community based infrastructure and the integration of local energy sources so important to securing our energy future?

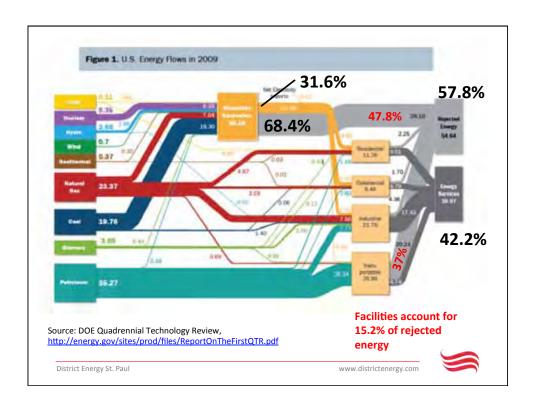
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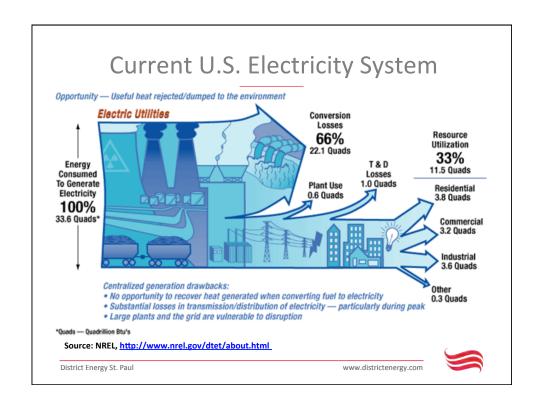


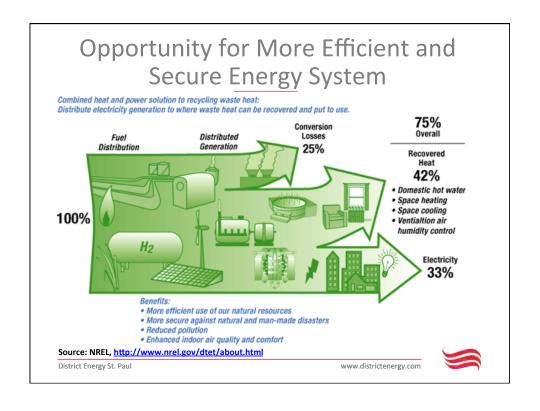


"If you always do what you've always done, you'll always get what you've always got"

District Energy St. Paul







"Here's to the crazy ones. The misfits. The rebels. The troublemakers. The round pegs in the square holes. The ones who see things differently. They're not fond of rules. And they have no respect for the status quo. You can quote them, disagree with them, glorify or vilify them. About the only thing you can't do is ignore them. Because they change things. They push the human race forward. And while some may see them as the crazy ones, we see genius. Because the people who are crazy enough to think they can change the world, are the ones who do."

- Steve Jobs

District Energy St. Paul

www.districtenergy.com



Thank You!



Ken Smith, President and CEO

ken.smith@districtenergy.com - www.districtenergy.com