

# Leveraging Public-Private Partnerships to Advance Community Energy Systems

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*SVP System Development*



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# Common Themes

- Partnership and collaboration
- Set a common vision
- Leverage local resources
- Leverage existing assets
- One size does not fit all
- Look beyond the boundaries
- Energy systems for the district
- Look to the next generation of district energy



# District Energy St. Paul (MN)

*Over thirty years of successful public-private partnership*

- City of Saint Paul
- State of Minnesota
- U.S. Department of Energy
- U.S. Environmental Protection Agency
- U.S. Housing and Urban Development
- Saint Paul Port Authority
- Building Owners and Managers Association
- Saint Paul Area Chamber of Commerce
- Local electric and gas utility
- University of Minnesota



# District Energy St. Paul

## **Mission:**

To be the preferred provider of community energy services that benefit our customers, the community and the environment.



# District Heat Montpelier (VT)



**DISTRICT HEAT MONTPELIER**  
AN ENERGY INDEPENDENT DOWNTOWN

- State Campus – 19 office buildings
- City Distribution System – 21 Buildings (16 public and private customers)



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# District Heat Montpelier Vision

## *Better Environment, Stronger Community*

- Efficient energy use
- Fuel flexibility incorporating local, sustainable resources
- Integration of new and efficient technologies
- Stable energy rates
- Reduced greenhouse gas emissions
- Economic competitiveness in the community
- Improved overall livability



# Burlington District Energy (VT)

## Project Partners:

- Burlington Electric
- City of Burlington
- BURDES (local citizen group)
- University of Vermont
- University of Vermont Medical Center



# Burlington Study Mission

- Develop a community energy plan that is implementable.
- Provide customers with stable, competitive energy rates
- Utilize local, renewable energy sources
- Reduce the carbon footprint for the Burlington community
- Improve the energy efficiency of the Burlington community
- Establish an initial customer base that makes implementation of a community energy system that is technically & economically feasible
- Provide guidance for system financing and development





# Crystal City/Pentagon City (Arlington, VA)

- Arlington County
- Vornado/Charles E. Smith
- Washington Gas
- Metropolitan Washington Area Transit Authority
- Lockheed Martin
- Marriott International
- Virginia Hospital Center
- Virginia Sustainability Building Network
- Pentagon
- Commonwealth of Virginia
- Arlington Civic Federation
- Dominion Virginia Power
- Arlington Chamber of Commerce
- Virginia Tech Advanced Research Institute
- Virginia Public Schools



# Crystal City/Pentagon City (Arlington, VA)

## **Project Mission:**

Provide a roadmap for increased energy efficiency, energy security, and sustainable energy solutions while significantly reducing greenhouse gas emissions.



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# University Avenue District (Mpls, MN)

- Prospect Park 2020 (neighborhood group)
- University of Minnesota College of Design
- U of M Real Estate Foundation
- University Enterprise Laboratories
- Urban Land Institute
- City of Minneapolis
  - Community Planning & Economic Development
  - Public Works
- City of St. Paul
- Hennepin County
- Metropolitan Council
- Greater MSP
- McKnight Foundation
- Minneapolis Public Housing Authority
- Metro CERTS (clean energy resource teams)
- Family Housing Fund
- Mississippi Watershed Management Organization
- Trust for Public Land
- Blue Cross/Blue Shield
- The Cornerstone Group
- Aeon Properties
- Cornerstone Properties
- United Properties
- Prospect Park Properties
- The Wall Companies
- Xcel Energy
- CenterPoint Energy



# University Avenue District (Mpls, MN)

## **Project Mission:**

The Prospect North Community Energy System will be an urban model for sustainability, resilience, partnership, innovation, and economic development.



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# Rice Creek Commons (Arden Hills, MN)

- City of Arden Hills
- Ramsey County
- Saint Paul Chamber of Commerce
- Saint Paul Port Authority
- Arden Hills School District
- Minnesota National Guard
- Xcel Energy (local regulated utility)
- US Army
- University of Minnesota Center for Sustainable Building Research
- Minnesota Department of Homeland Security
- Energy Resilience Advisory Board (citizen group)





# Rice Creek Commons (Arden Hills, MN)

TCAAP will be a vibrant development that leverages long-term energy conservation and resilience to attract investment and partnership, and achieves sustainable benefits for Arden Hills and the surrounding community.



# Ford Site: A 21<sup>st</sup> Century Community (St. Paul, MN)

## **Project Partners:**

- City of St. Paul
- District Energy Saint Paul
- Xcel Energy
- Saint Paul Chamber of Commerce
- Local Foundations
- Ryan Companies (local developer)
- Center for Energy and Environment
- University of Minnesota
- State of Minnesota
- Ford Motor Company

## **Mission:**

The redeveloped Ford site will balance economic, social and environmental sustainability in a way that conserves and improves the qualities and characteristics of the unique Highland park neighborhood and Mississippi River valley in which it sits while advancing the City's economic wealth and community goals, resulting in a forward- thinking 21<sup>st</sup> Century development.



# Ford Site Redevelopment (St. Paul, MN)



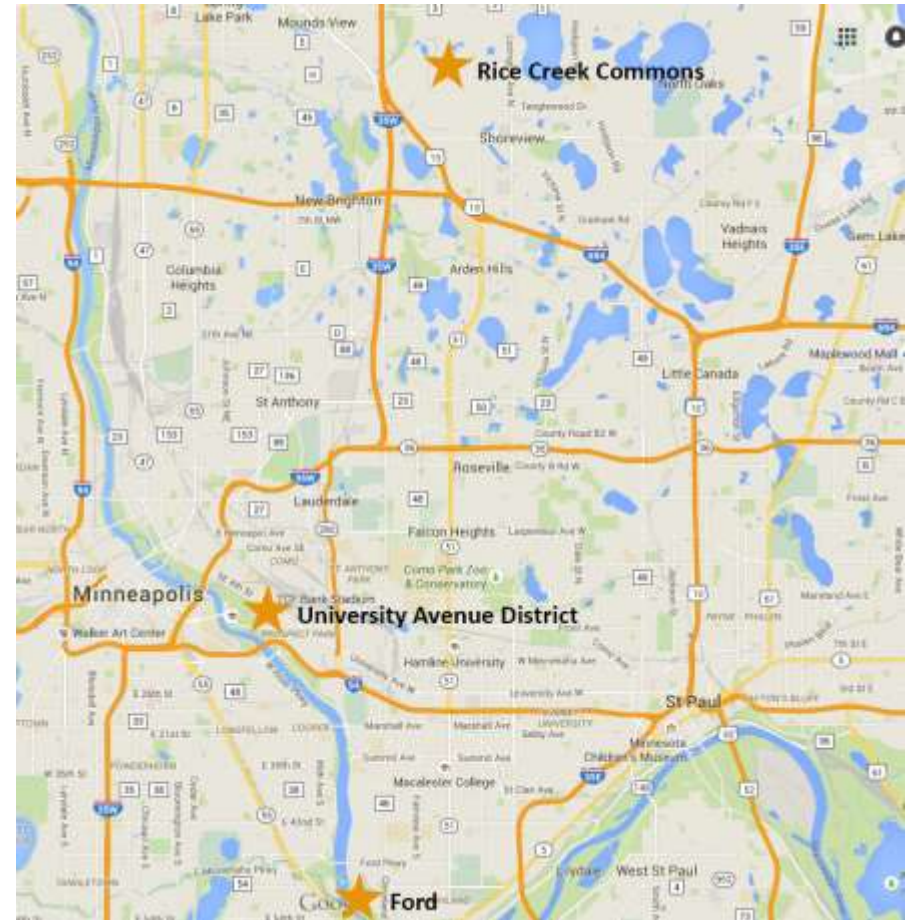
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# Twin Cities Green Redevelopment Forum

- Collaboration of Cities, Counties, planners, and developers
- Supported by local foundations
- Led by the National Resources Defense Council
- Collaboration on district planning for three primary brownfield sites in the Twin Cities
- Focus on common energy themes and joint energy pursuits



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