



# Austin Energy's District Cooling Program

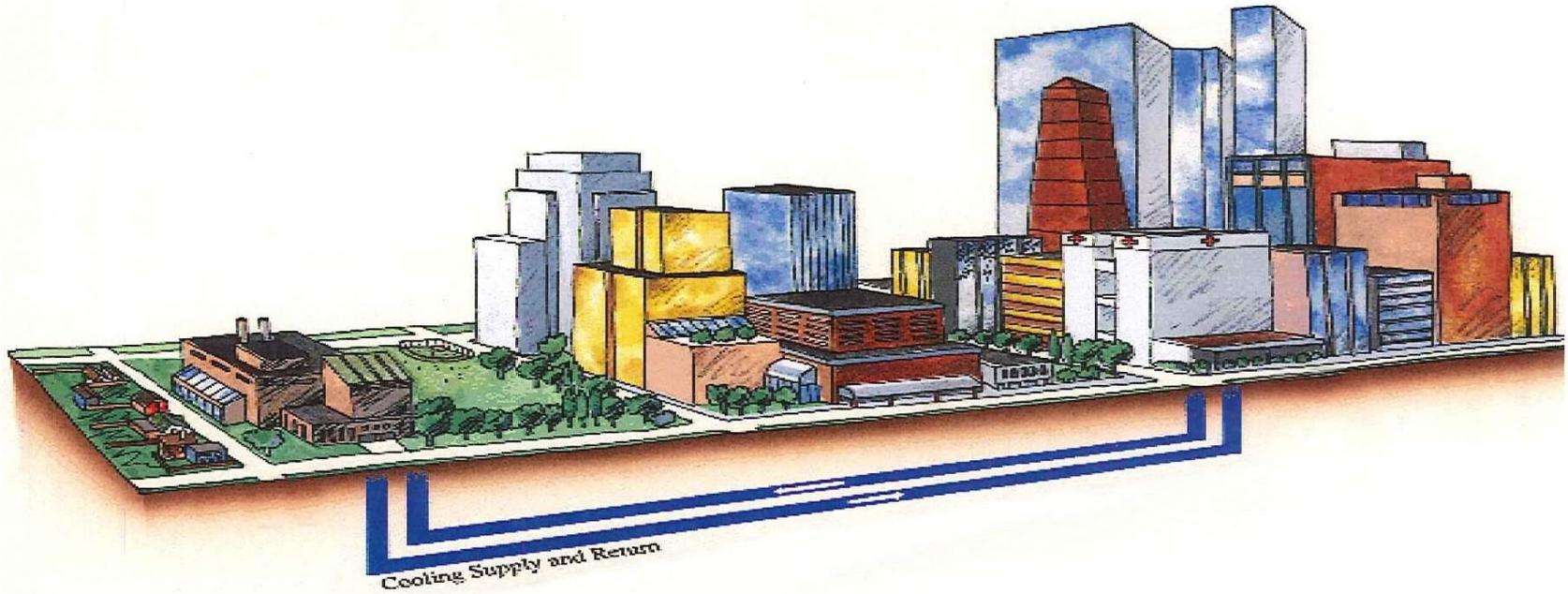
Resource Management Commission  
May 17, 2016

Jim Collins, Director  
On-Site Energy Resources





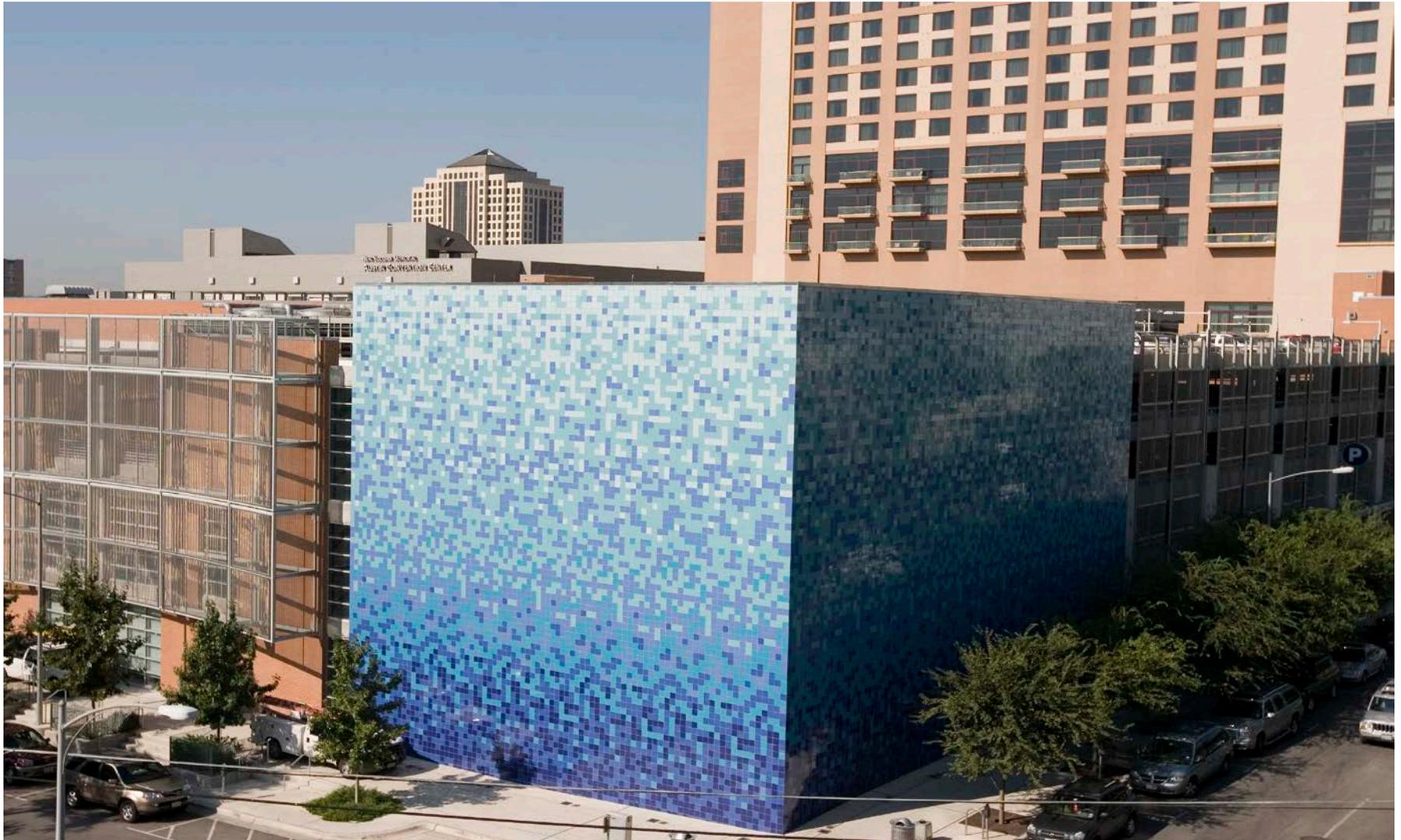
# District Cooling



- An underground network of pipes providing chilled water to meet the cooling needs of multiple buildings
- Gathering load generates superior energy savings, reliability and quality than stand-alone systems
- District Cooling Program has connected 68 customers
- Over 18.6 million square feet of facilities (i.e. 165 City Halls)

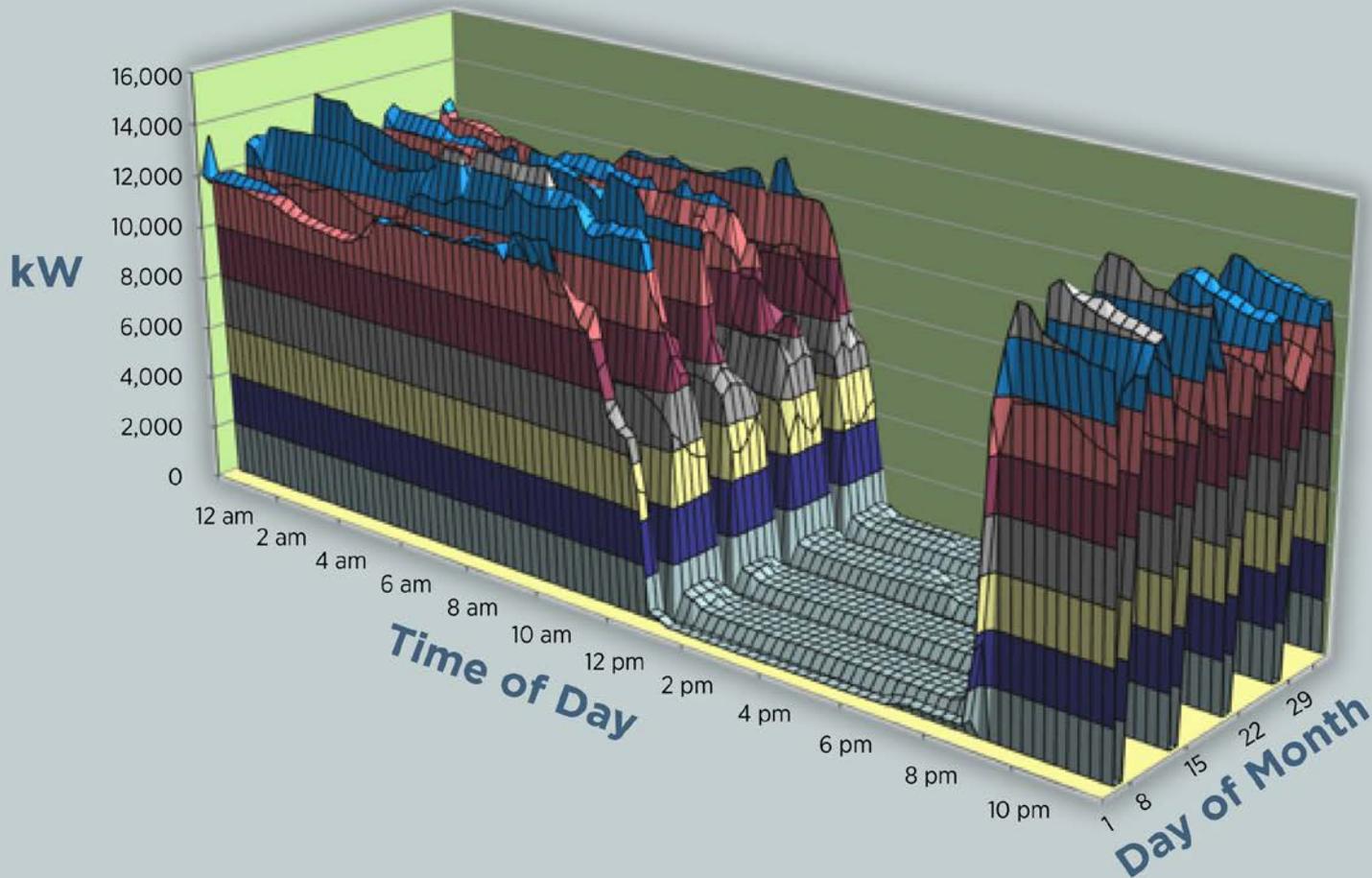


# Keeping Austin Cool





# Peak Demand Management





# Benefits

## **For District Cooling Customers:**

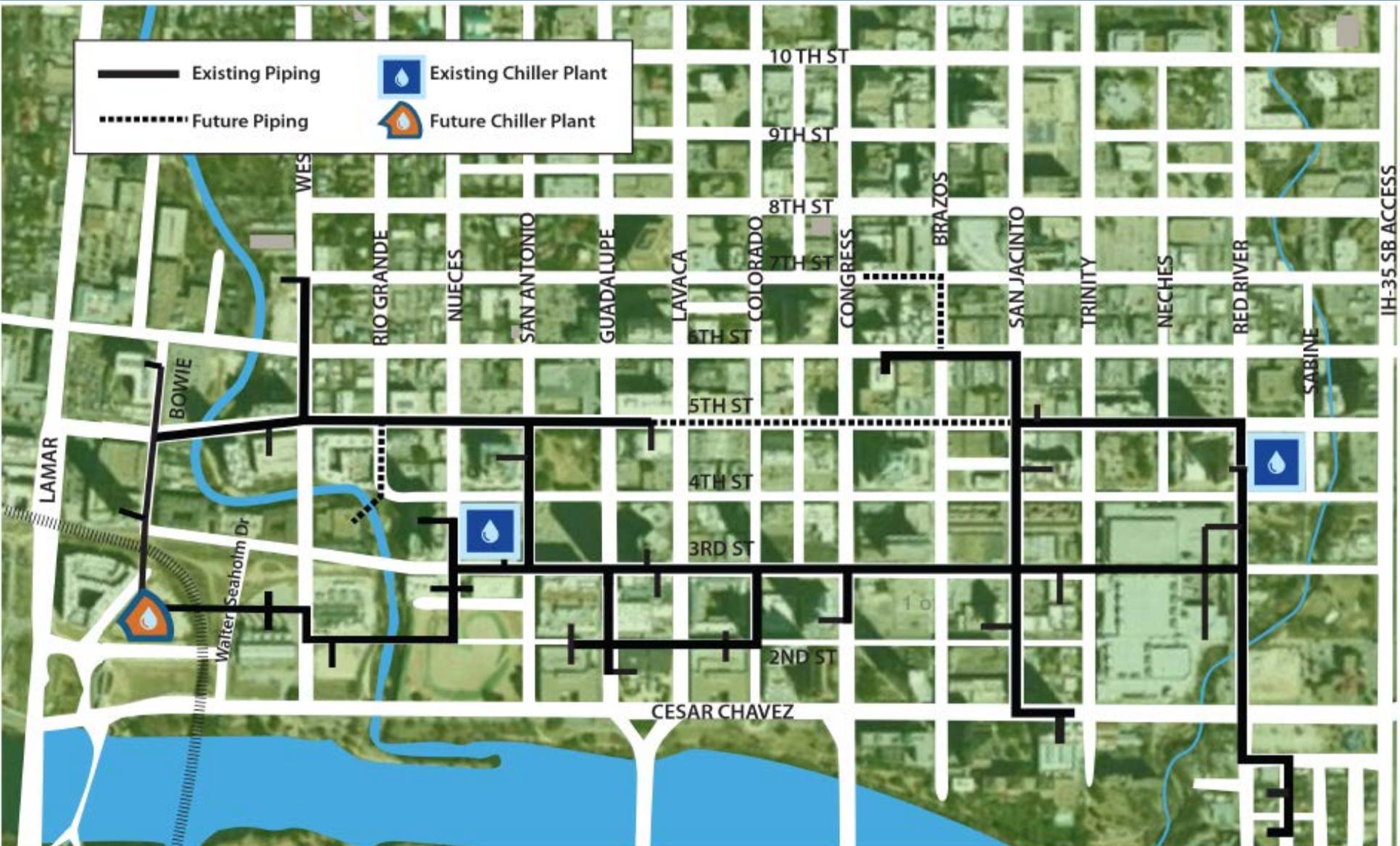
- Reduces capital costs and frees up building space
- Must make financial sense over a stand-alone system
- Extraordinary reliability by design
- User-friendly system means low risk to customers

## **For the Community and Austin Energy:**

- Supports compact and connected economic development
- Creates a long-term revenue stream
- Supports Austin Energy Resource, Generation and Climate Protection Plan to 2025
- Shifting peak electric demand means Electric Reliability Council of Texas (ERCOT) market and regulatory savings or avoided costs

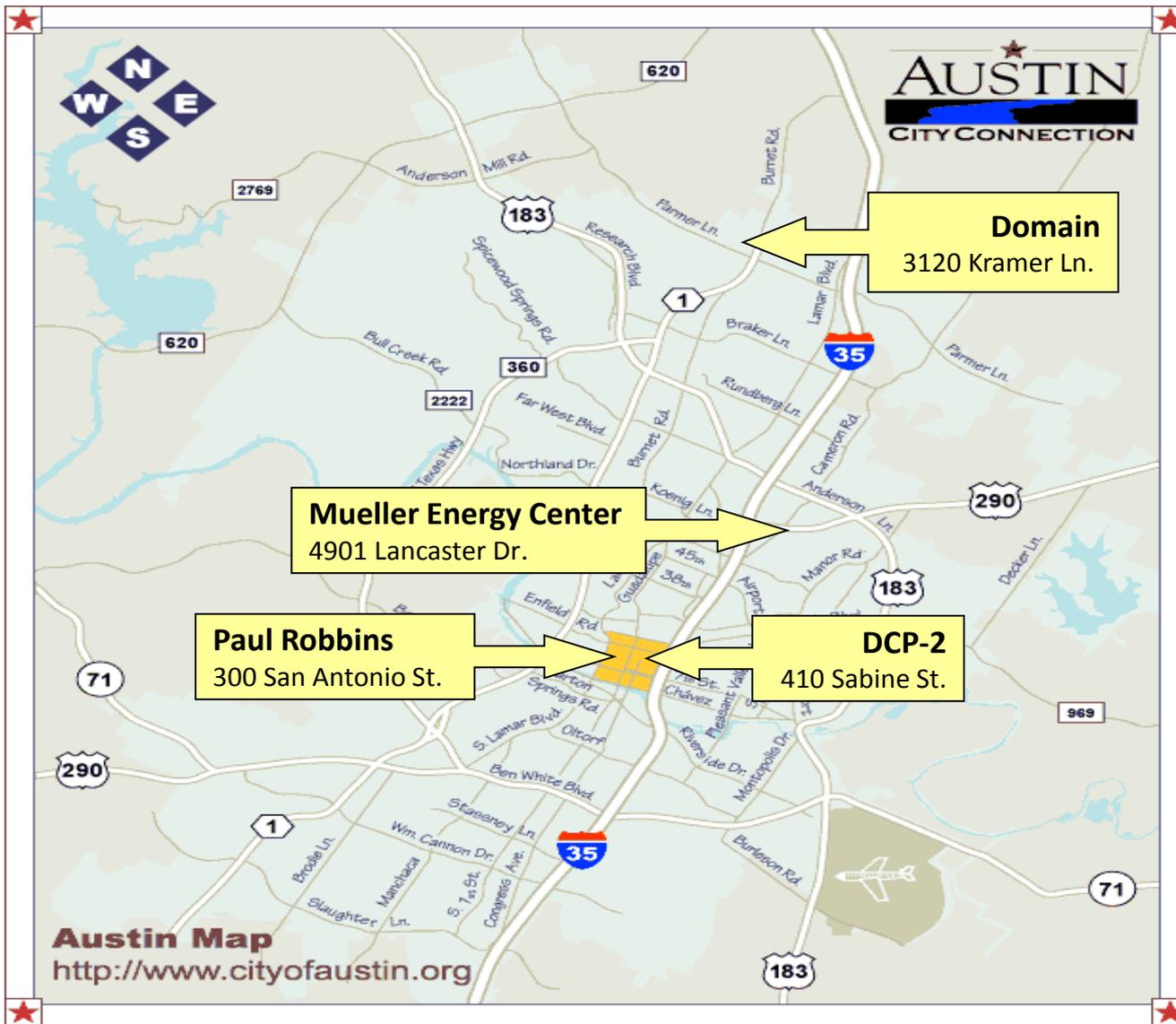


# Downtown District Cooling





# District Cooling Plant Locations





# District Cooling

## Program Recap

- 68 customers connected to District Cooling systems
- Sound financial model / Cost recovery from Chilled Water Customers
- Providing 15MW of electric demand management toward 2025 goal of 20MW

## Potential Expansion

- Expansion within existing plants
- Additional plants
  - Mueller expansion
  - Downtown expansion on Crescent Property
  - New satellite locations in support of Imagine Austin Plan  
Austin Community College/Highland Mall, South Central Waterfront, Central Health, and Innovation District



Thank you,

Questions?

