

Natural Gas Technologies Workshop



DTE



The DTE Gas Major Accounts team invites you to join us for an afternoon of discussions and information exchange on opportunities for energy savings and

carbon reductions your facility. We will update you on DTE's current activities, plans, and our perspective on the natural gas markets. We will present information on cost saving gas technologies such as Combined Heat and Power, or CHP, natural gas cooling, as well as a discussion of Renewable Natural Gas and the carbon savings available from these efficient gas technologies.

CHP is not a new technology, but it is worth of a new look in today's transition to sustainable energy, low carbon future. CHP can lower your carbon footprint by over 40% while providing significant energy cost savings, provide backup power, and provide a new source of steam or hot water. If you have an upcoming boiler replacement, or are in need of backup generation, a CHP microgrid could be a solution that pays for itself from energy savings. We will also discuss low cost natural gas cooling options for commercial and industrial applications. A data driven discussion will address the carbon accounting involved with Electrification, Renewable Natural Gas (RNG), and the future option of Power to Gas (P2G) using renewable hydrogen.

When: Tuesday, October 22, 2019 (11:30 AM to 5:00 PM)

Where: **Founders Brewery, 2nd Floor Centennial Room**
235 Grandville Ave SW, Grand Rapids, MI 49503

Who: DTE Gas, Commercial & Industrial Customers
(consultants or others who support DTE Customs are also welcome)

Fee: no cost (lunch provided)

Registration: [Click HERE to Register](#)



Agenda

- 11:30 - noon Registration & networking
- 12:00 noon Welcome & introductions
- 12:10 pm Lunch is served
- 12:40 pm DTE Gas introduction, activities and future plans
- 1:00 pm Attendee introductions / roundtable for questions
- 1:20 pm Natural gas markets: Current state of affairs, trends and expectations
- 1:40 pm Gas technologies for energy cost savings: CHP, industrial solutions, gas cooling
- 2:00 pm Data driven low carbon energy solutions: electrification, renewables and CHP
- 2:20 pm DTE Energy rebate program (Energy Waste Reduction)
- 2:40 pm Round table discussions / Q&A
- 3:00 - 5pm Networking Happy Hour

Door prizes!! Including FLIR Thermal Imaging Camera mobile phone attachment

FOUNDERS' NEW PARKING GATES

-**FREE PARKING (with validation)** for Founders Customers (up to 5 hours)

-**Additional time/Non-customer rate is \$2 per half-hour**

-**no charge from 11pm-8am**

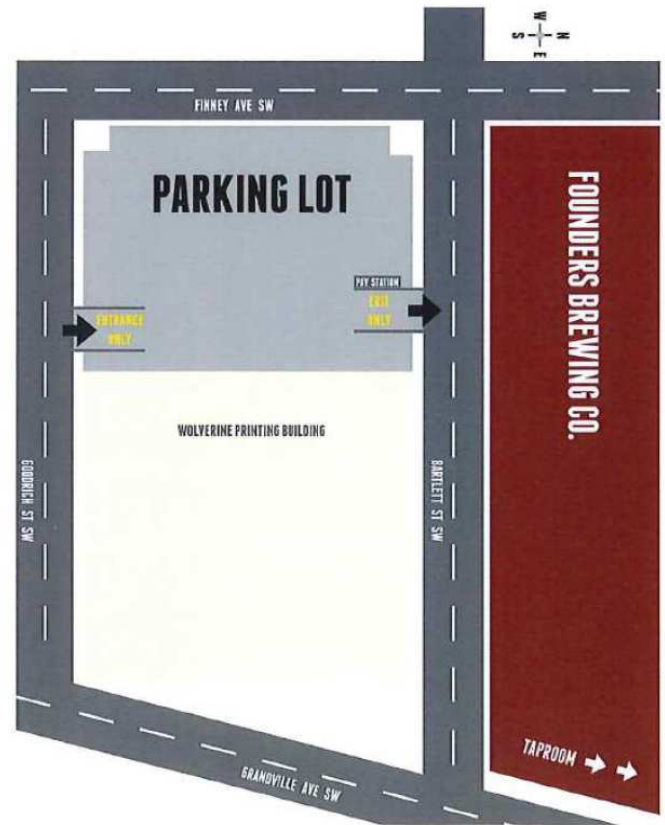
-**To validate, parking lot ticket must be presented to a Bartender/Server or in The Company Store**

-**Max. charge/Lost ticket is \$40/day**

-**Enter via Goodrich,
Exit via Bartlett**

-**Parking lot is cash-free,
Credit Card Only**

-**Other convenient parking is available via street meters, city & Ellis lots**



SPEAKERS

James Leidel of DTE Gas is the Principal Markets Technical Consultant supporting all large gas customers and the Gas Major Accounts group. He is a U-M and Purdue, mechanical engineering grad with 28 years experience in the energy industry, with specializations in green buildings, renewables and CHP.

Adam Scripps of DTE Gas is a principal account manager based out of Grand Rapids, Michigan. Prior to joining DTE Gas, Adam spent 8 years with BP and has an MBA from Grand Valley State University.



Learning Objectives (You will leave this workshop with knowledge of the following)

- What is DTE Electric's long term electric generation mix in 2040?
- When will DTE Electric retire it's last and largest coal fired power plant in Monroe?
- What is the best way to describe today's domestic natural gas market?
- What is likely the largest factor for additional 2020-25 domestic natural gas demand?
- What two factors make CHP such a low carbon power generation option?
- Name two natural gas cooling technologies.
- Name two sources, or feedstocks, for renewable natural gas, or RNG.
- What is the emerging technology called Power to Gas, or P2G?
- Which is the largest energy storage technology: pumped hydro, LiION or natural gas?

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