



**CleanVision Plan**

**Third Public Open House**

March 22, 2022

**Visit Our Website:** [dtecleanenergy.com](https://dtecleanenergy.com)

**Email us at anytime:** [DTE\\_Electric\\_CleanVision@dteenergy.com](mailto:DTE_Electric_CleanVision@dteenergy.com)

# Meeting logistics

- Today's live presentation will be followed by Q&A
- Live closed captioning is available
- The DTE overview presentation will be followed by details on how to provide comments on the CleanVision Plan
- This presentation is available on the website [dtecleanenergy.com](https://dtecleanenergy.com)
- Questions or comments can be submitted anytime during this event by using the "Q&A" function in the top right-hand side of your screen
  - We will queue up audience questions and comments after the initial presentation
  - Please include your name in the question/comment
- Additional opportunities for public input will be available in the remaining open house session and through the comment section on the website
- The presentations, transcripts and recordings for all public meetings will be posted to [dtecleanenergy.com](https://dtecleanenergy.com)
- If you are having technical difficulty, please contact DTE\_Electric\_CleanVision@dteenergy.com ([link](#))

You may find recordings, transcripts, and the presentations from the first two CleanVision Plan Open Houses on our website

[DTE Energy - Net Zero Carbon Emissions by 2050 \(dtecleanenergy.com\)](https://dtecleanenergy.com)

## DTE Electric CleanVision Plan

DTE Electric's CleanVision Plan is our journey to achieve net-zero carbon emissions for the Electric Company by 2050 while providing clean, reliable, and affordable energy to our customers. In October 2021, DTE Electric announced plans to accelerate our interim goal of 50% carbon emissions reductions, achieving that goal by 2028. We will further outline our goals to provide cleaner, reliable, and affordable energy in our next Integrated Resource Plan (IRP) filing with the Michigan Public Service Commission (MPSC).

The upcoming Open Houses can be added to your calendar here: [March 22, 2022, at 1 p.m. and 6 p.m.](#), and [April 19, 2022, at 1 p.m. and 6 p.m.](#)

### FAQ

[SEE ALL FAQS >](#)

#### What is an integrated resource plan?

An Integrated Resource Plan (IRP) is a comprehensive plan to meet electricity needs of our customers 5, 10, and 15 years into the...

[READ MORE](#)

#### Is there a way for me to engage with DTE in the CleanVision Plan Process?

Yes! Public input is an important part of the IRP process. DTE will be hosting four public open houses in the first half of this year. In or...

[READ MORE](#)

#### Will you have more open houses? If so, how do I participate in the public open houses and what topics will be covered?

### Open Houses



February 22, 2022 at 1pm ET

- [Download Presentation](#)
- [Watch Recording](#)
- [Read Transcript](#)



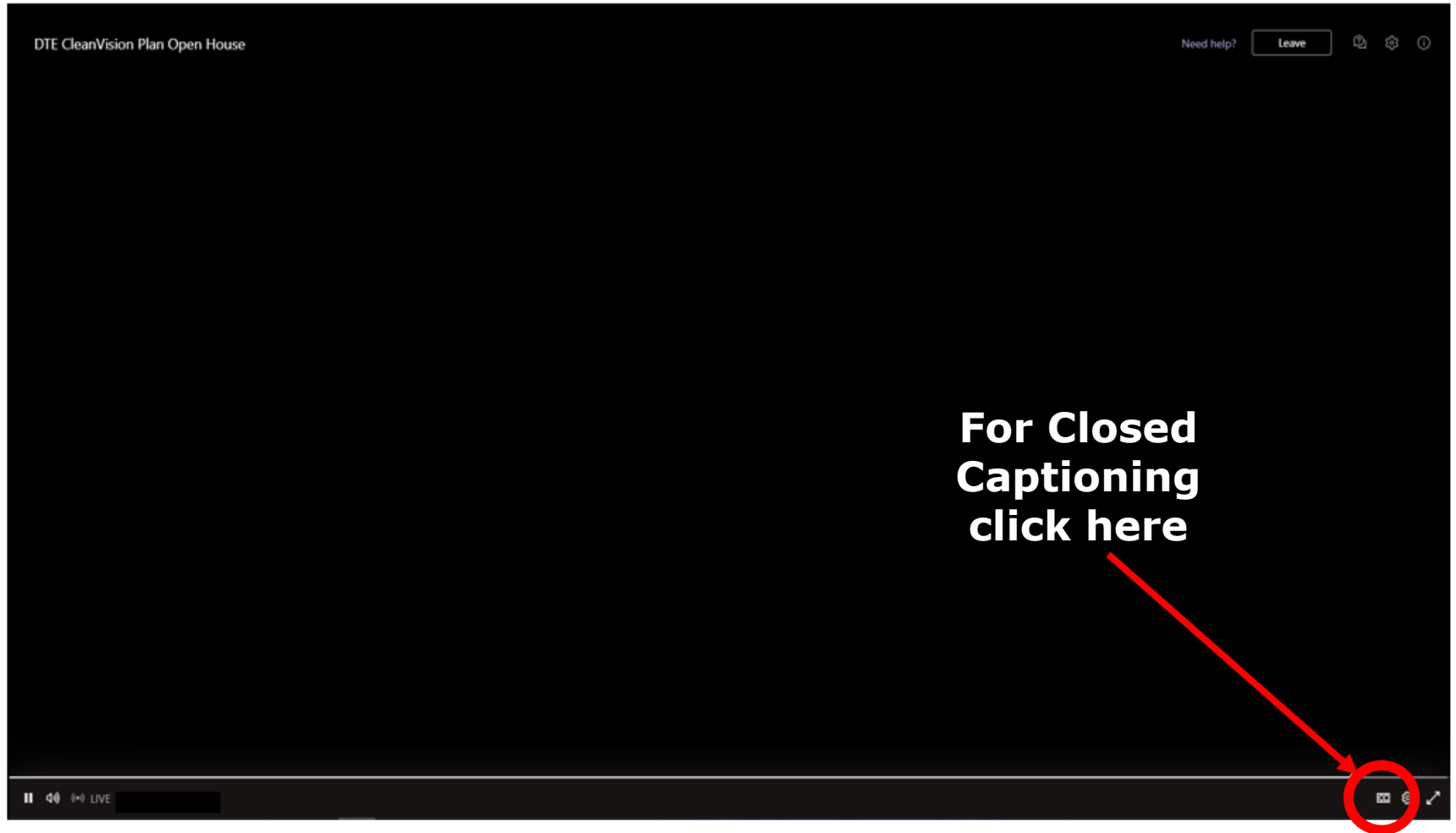
February 22, 2022 at 6pm ET

- [Download Presentation](#)
- [Watch Recording](#)
- [Read Transcript](#)

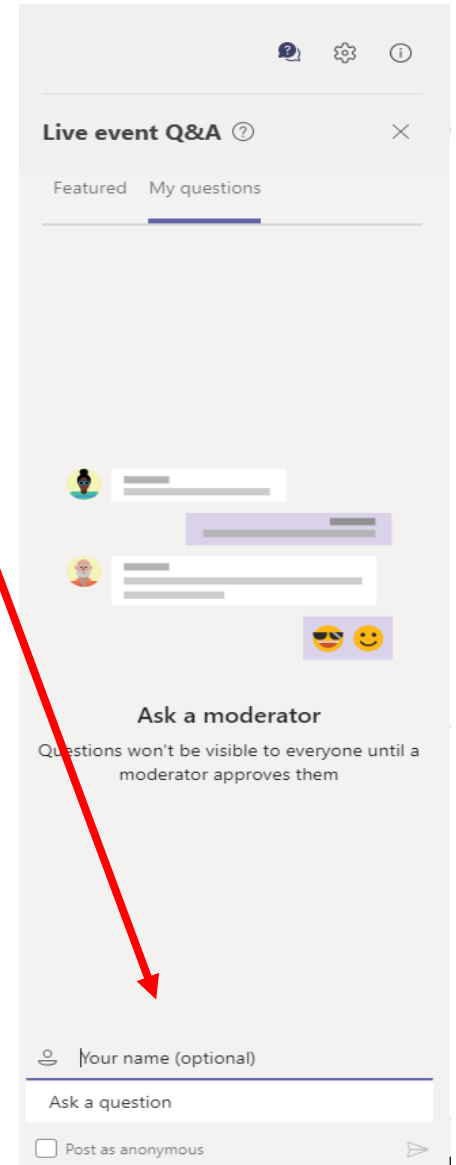
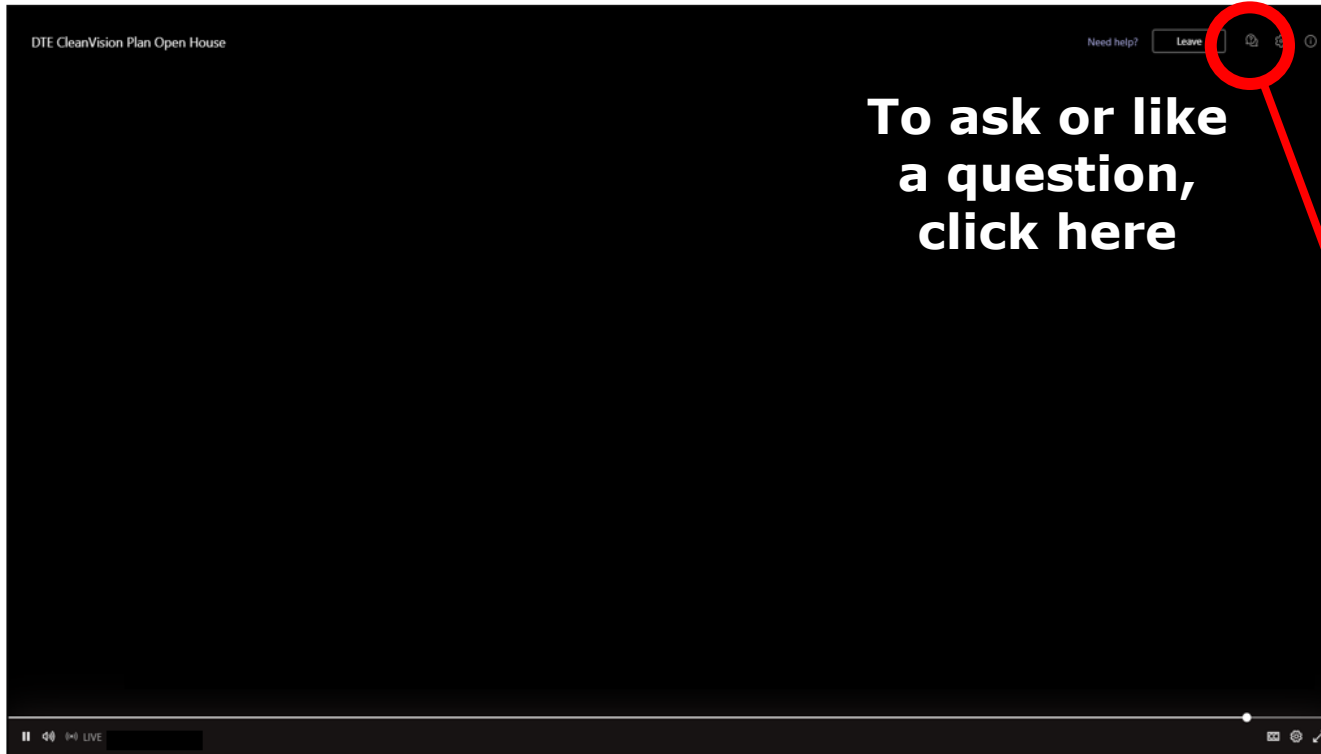
Recording and transcript



# Helpful Tips: Closed Captioning



# Helpful Tips: Submitting a Question



# Agenda and Upcoming Dates

## **Public Open House #3: March 22, 2022**

### **Today's agenda**

- Introduction
- Customer Demand-side Management: Energy Waste Reduction and Demand Response
- Voluntary Renewables: MIGreenPower
- Q&A

## **Save the Date: Upcoming Open House Date**

#4: April 19

**Please check our website for updates and  
upcoming meeting logistics:**

[dtecleanenergy.com](http://dtecleanenergy.com)



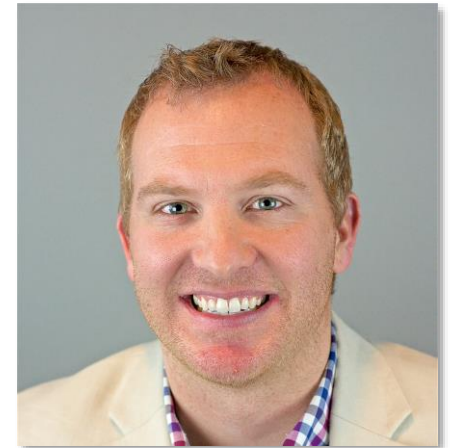
**Joyce Leslie**

**Director, Business  
Planning &  
Development**



**Kevin Bilyeu**

**Manager, Energy Waste  
Reduction**



**Keegan Farrell**

**Manager, Demand  
Response**



**Knox Cameron**

**Manager, Renewable  
Energy Sales**



**Laura Mikulan**

**Manager, Integrated  
Resource Plan**



**Jill Wilmot**

**Director, Corporate  
Communications**





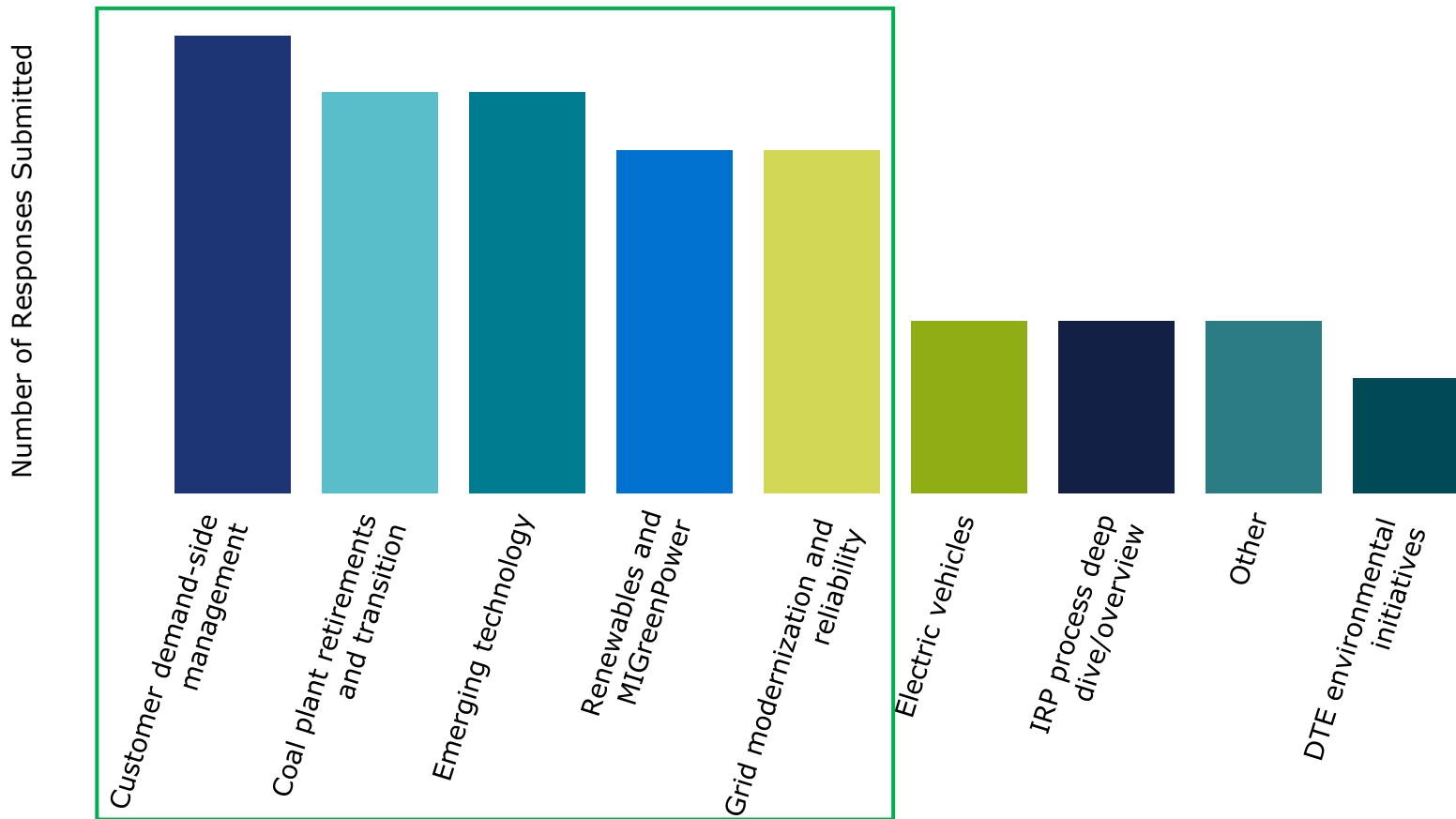
# What is an Integrated Resource Plan (IRP)?



- An IRP is a comprehensive plan to meet electricity needs of a power company's customers 5, 10, and 15 years into the future
- An IRP details the planned resources that a power company will use to deliver reliable, affordable electric supply to its customers
- Electric utility IRP filings are required by the State of Michigan

Your feedback through the survey shaped the next three open house agendas. Today, we will talk about customer programs – demand-side management and voluntary renewables

**What are areas of interest relative to the CleanVision Plan that you would like to engage in at future Public Open House meetings?**



Today's discussion will focus on customer demand-side management and our voluntary renewables program, or MIGreenPower

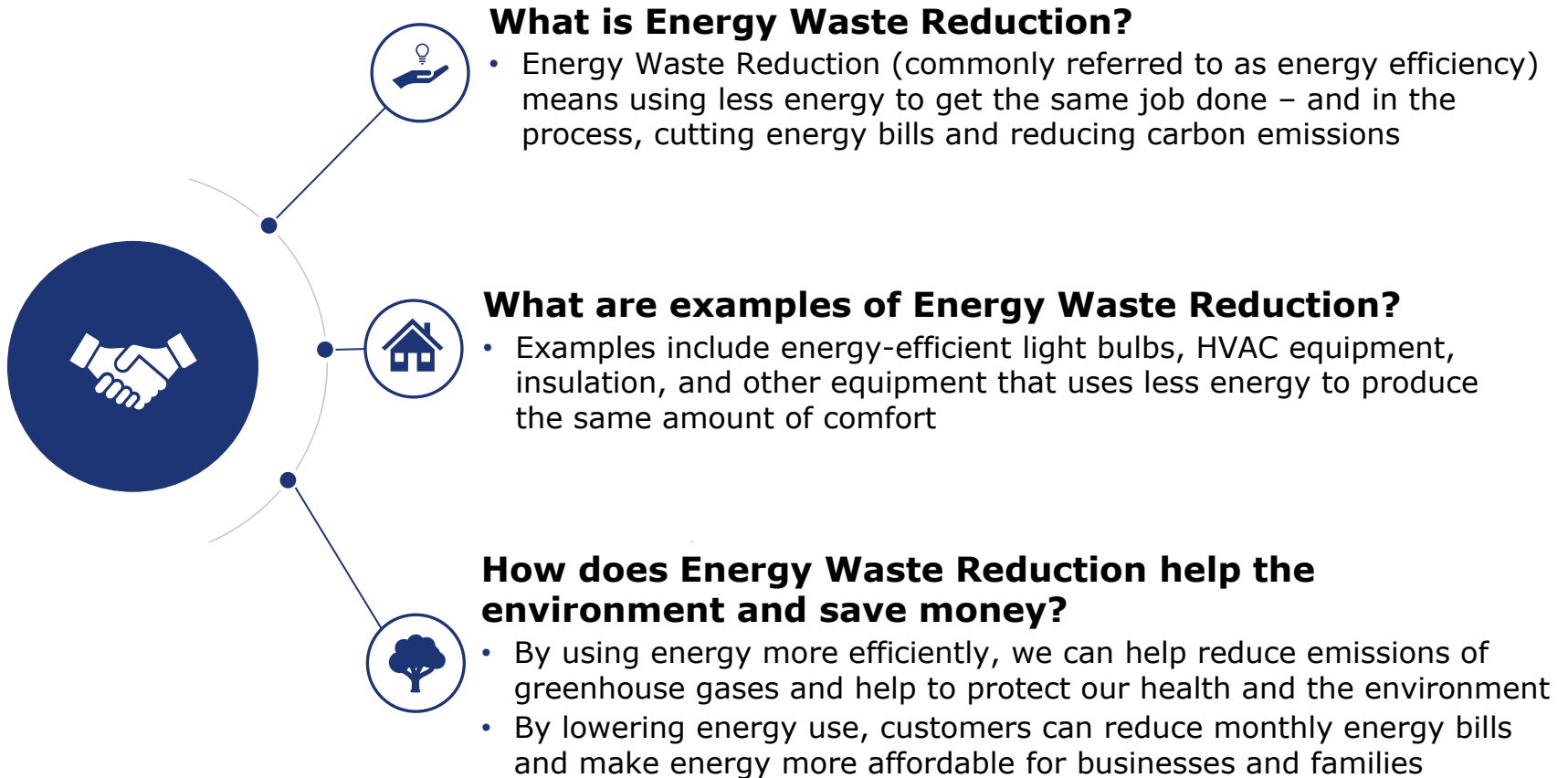
### **Customer demand-side management**



### **MIGreenPower**



# Energy Waste Reduction (EWR) programs provide customers opportunities to reduce energy usage, energy bills, and carbon emissions



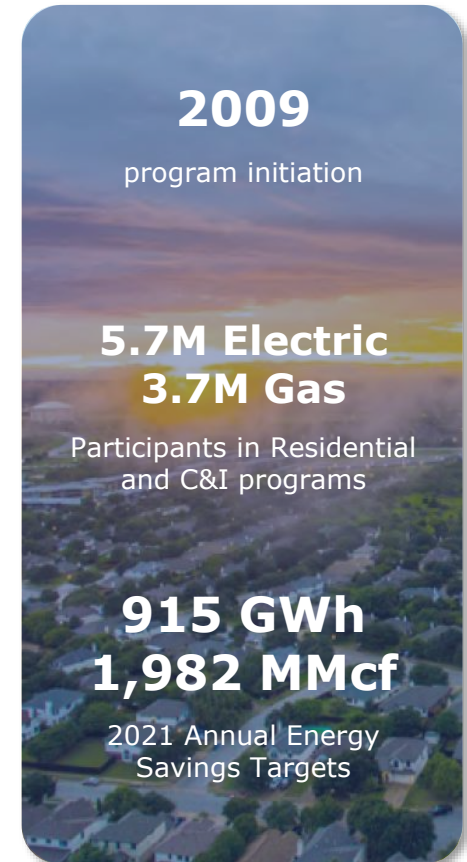
# DTE is committed to delivering a best-in-class Energy Waste Reduction Program

## Achieving major milestones

- Increased annual energy savings of 2.0% of electric and 1.0% of gas sales<sup>1</sup>
- 25+ residential and business programs, ensuring wide and varied participation
- \$48M annual investment in income-qualified programs
- 90% of investments are spent within Michigan and 65% with minority and/or women owned businesses
- Supports over 300 clean energy jobs based in Michigan

## Solutions to reduce emissions

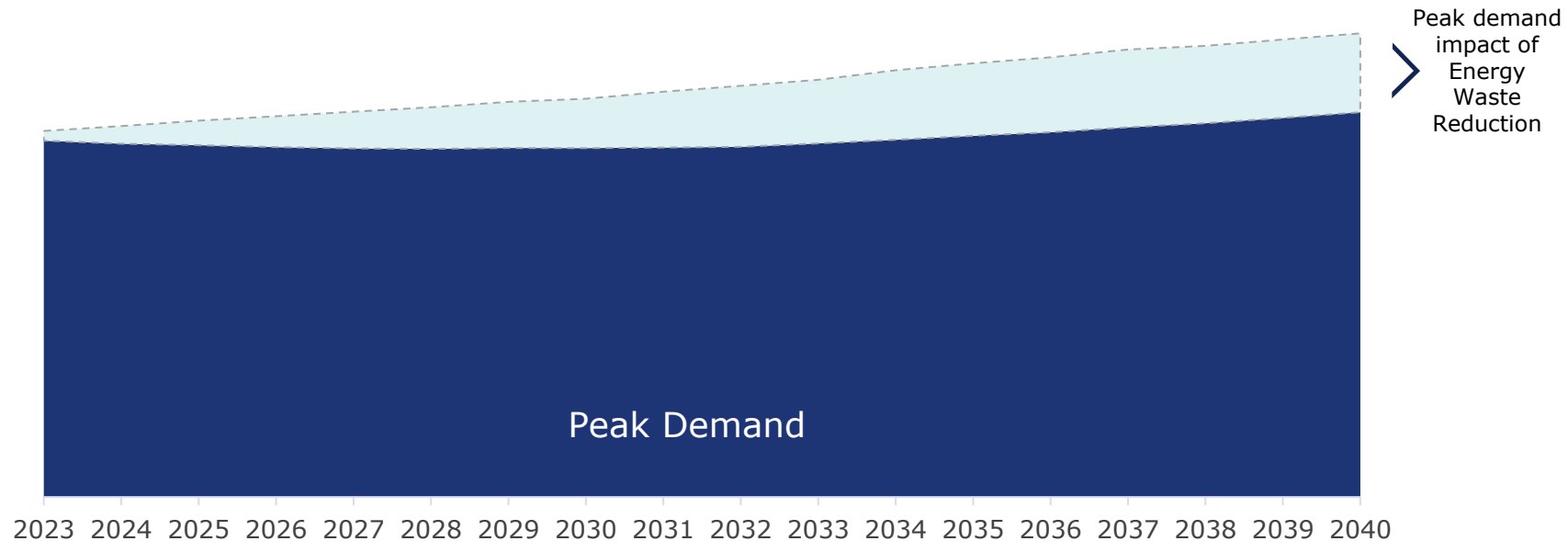
- Since 2009, the cumulative lifetime environmental benefits from the electric and gas savings are equivalent to:
  - Annual CO<sub>2</sub> emissions reduction from over 80,000 homes' energy use
  - Reduction in the CO<sub>2</sub> emissions equivalent to more than 146,000 cars driven in one year



# Energy Waste Reduction is a load (or demand) modifying resource, often a low-cost alternative to supply side resources

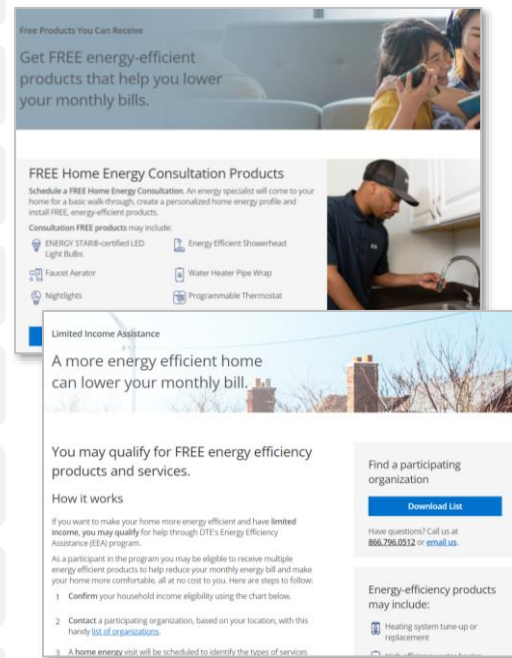
- The savings for Energy Waste Reduction programs reduces and offsets the energy otherwise supplied by the electricity grid or natural gas infrastructure

## Illustrative example: Energy Waste Reduction impact on peak demand



# DTE offers Energy Waste Reduction programs for every home to help reduce energy waste and energy bills

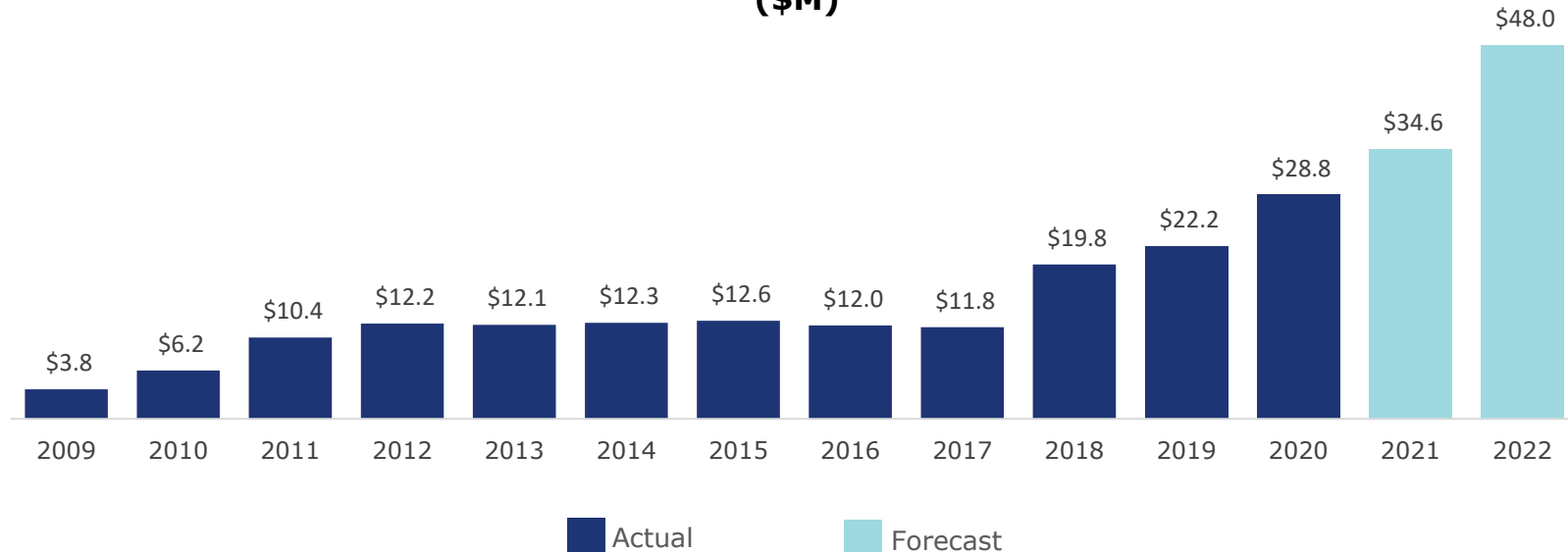
 Appliance Recycling	Early retirement and recycling of operable, inefficient appliances
 Weatherization	Rebates for insulation, air sealing, windows, doors
 HVAC Equipment	Rebates for heating, cooling, water heating equipment and thermostats
 Energy Star Products	Rebates for washers, dryers, dehumidifiers, LED lights, thermostats, pool pumps, room AC
 DTE Insight	App to encourage energy efficiency and provide feedback on energy consumption
 Home Energy Consultation	No-cost energy education and direct install measures
 Multi-Family	Common area rebates and in-unit direct installations
 Schools	Interactive education to 4th - 12th graders and kit with measures to take home
 New Home Construction	Rebates to incentivize new homes above federal minimum guidelines
 Online Marketplace	Online platform where customers can purchase energy efficient products



# An important element of DTE's Energy Waste Reduction portfolio includes Income-Qualified programs that assist customers on their energy efficiency journey

- Income-Qualified programs pay 100% of costs, enabling customers to participate in energy efficiency
- Income-Qualified spending has nearly *quadrupled* from \$11.8M in 2017 to \$48.0M in 2022
- Evolving to target deeper impact equipment such as air sealing and insulation

**DTE Electric & Gas Income-Qualified Program Spend (\$M)**





# DTE offers a variety of Energy Waste Reduction programs to help small and large businesses on their energy efficiency journey



## Energy Assessment Programs

Business Energy Assessments  
Strategic Energy Plan



## Small Business Programs

Small Business  
Find & Fix Steam Traps and Compressed Air



## Midstream (Instant) Programs

Midstream Lighting  
Midstream Food Service  
Midstream HVAC



## Downstream (Rebate) Programs

Prescriptive  
Custom  
New Construction



## Operational Programs

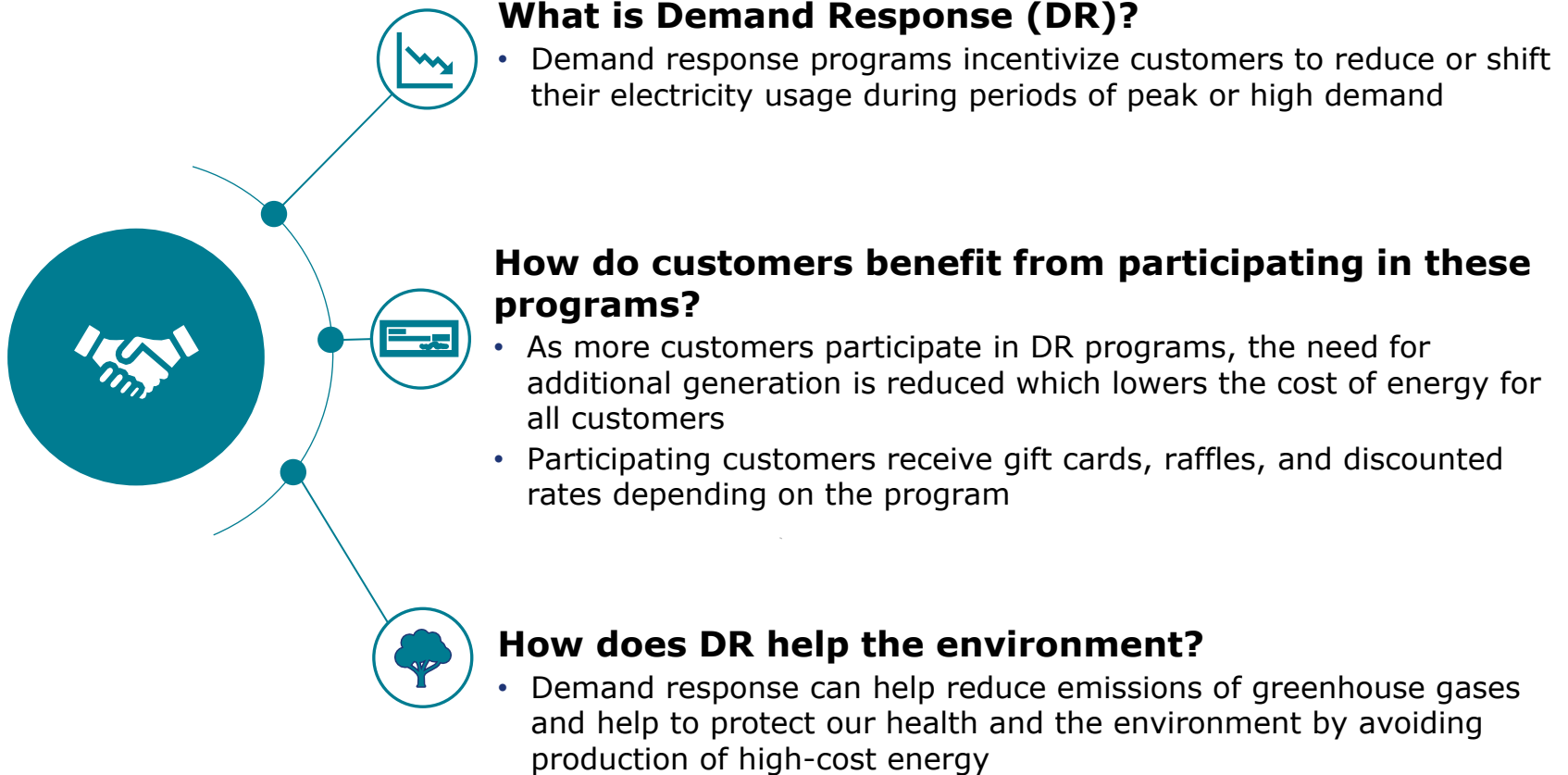
Industrial Strategic Energy Management  
Retro-Commissioning

The collage features three overlapping images:

- Top Left:** A video thumbnail with the text "We're committed to helping you save money." and "Prescriptive Incentives".
- Middle:** A webpage titled "Energize Your Operating Efficiency" with the subtext "Business incentives that help you install cost-effective energy saving equipment." It lists various incentives like "Compare Incentive Options", "Prescriptive Incentives", "Custom Incentives", "New Construction", and "Michigan Saves".
- Bottom Right:** A "Restaurant" infographic titled "Ideas to Keep Your Business Cooking" with the subtext "Easy to serve energy ideas for coolers, kitchens, dining rooms and more." It includes a "Typical Energy Usage" chart for restaurants.

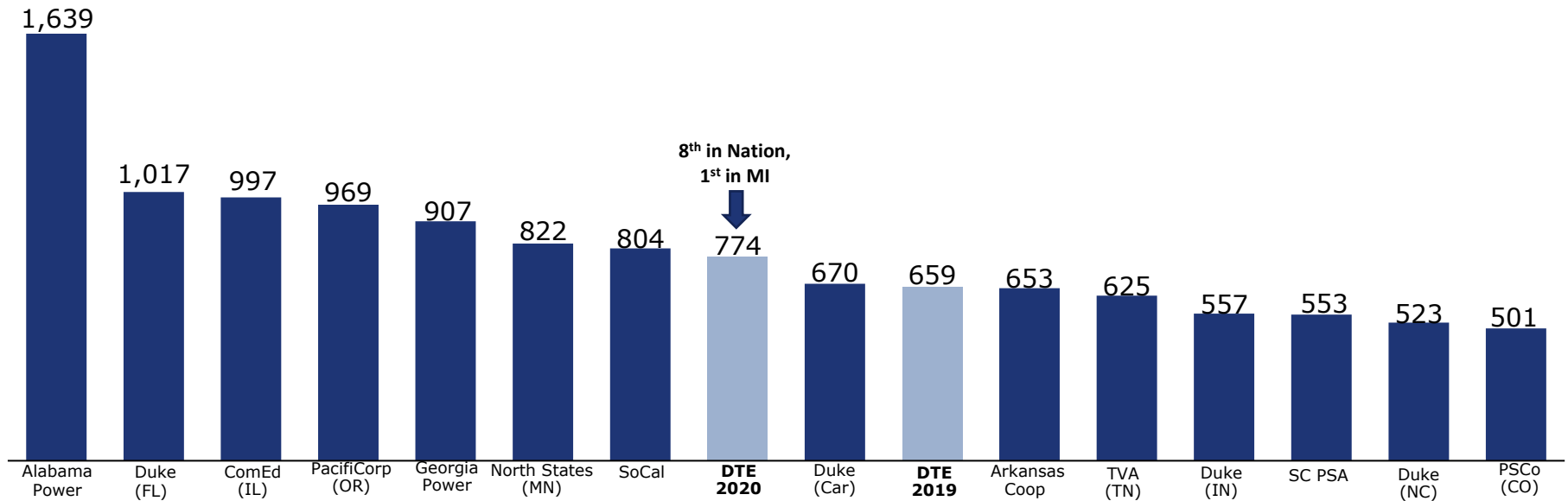
Category	Percentage
Water Heating	37%
Space Heating	23%
Lighting	23%
Refrigeration	37%
Cooking	6%
Ventilation	6%
Electricity	2%
Office	2%
Cooling	2%

# Demand Response (DR) reduces energy consumption during peak or high demand periods benefiting everyone



DTE's diverse Demand Response portfolio ranks competitively at the national level among utility peers with 770+ MW in potential peak demand savings in 2020

**2020 Potential Peak Demand Savings  
(ICAP MW)<sup>1</sup>**



# Residential and business customers can access discounted rates through multiple Demand Response program options



## Residential

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### CoolCurrents (D1.1 Interruptible Space Conditioning Rate)

Discounted rate on all separately metered A/C and heat pump usage. A direct load control switch is installed at the customer premise.

### D5 Interruptible Water Heating Rate

Discounted rate for separately metered water heater usage. A direct load control switch is installed at customer premise.

### Smart Savers (Bring-Your-Own Device/ BYOD)

Participants enroll own Wi-Fi enabled thermostat. Customers receive an annual gift card; DTE adjusts thermostat during peak events.

### SmartCurrents

Participants receive a free Wi-Fi enabled thermostat. Customers take service under rate under the Dynamic Peak Pricing rate (D1.8); DTE adjusts thermostat during peak events.



## Commercial & Industrial

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### D3.3 Interruptible General Service

Discount rate for small C&I customers

### D8 Interruptible Primary Supply

Discounted rate for single location of industrial customers at primary voltage

### R1.1 Metal Melting Rider

Discounted rate for customers operating electric furnaces for metal melting or reduction of metallic ores

### R1.2 Process Heat Rider

Discounted rate for customers using electric heat in manufacturing process

### R10 Interruptible Supply Rider

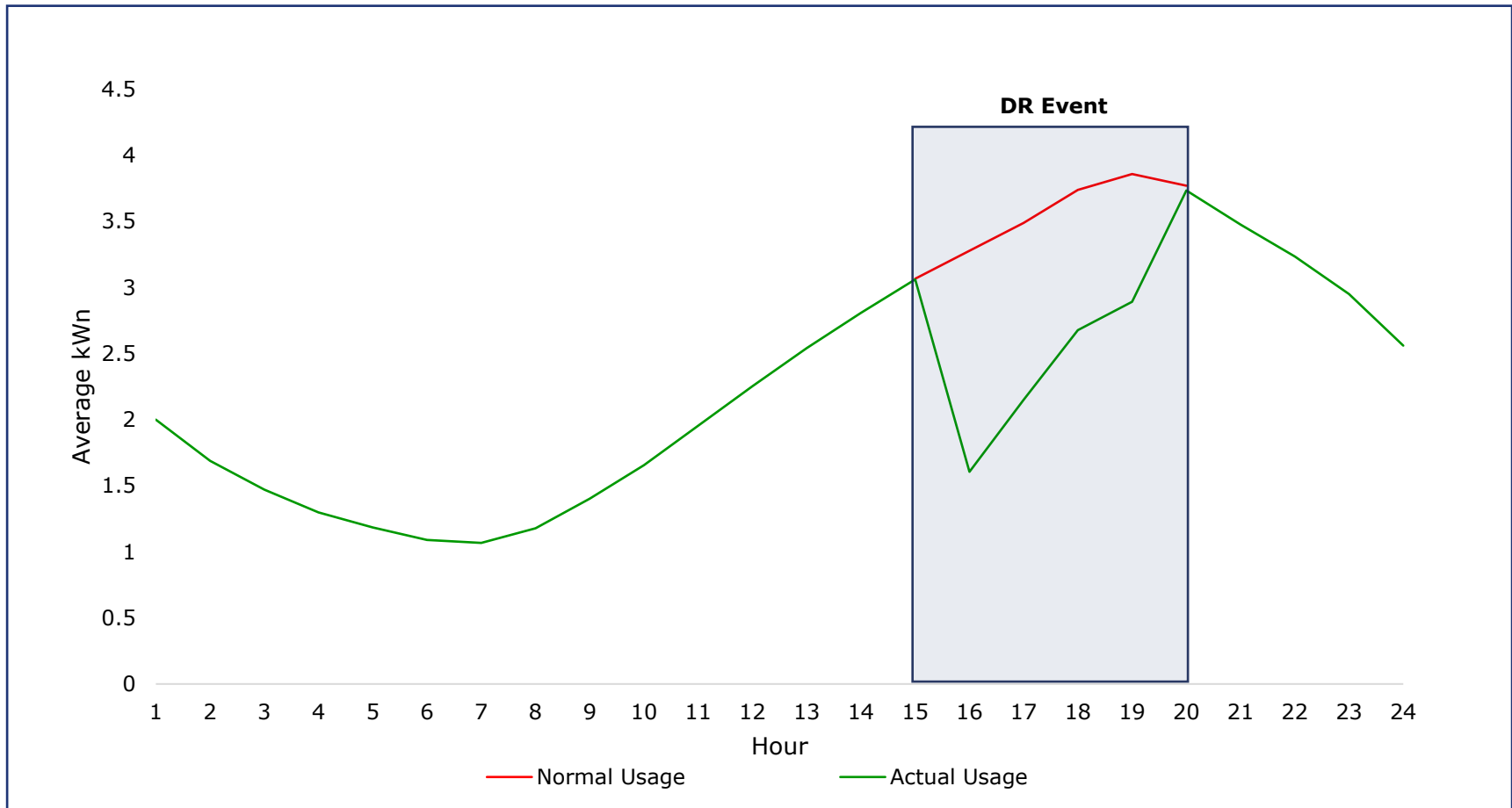
Discounted rate for primary supply rate customers and for a limited interruptible service at single location

### R12 Capacity Release Rider

Customers are compensated with one-time payment for a contracted load reduction during events

During a demand response event, participants could experience anywhere from a slight change in their comfort level to a large change in their operations

Illustrative Example of a Demand Response Event



You can learn more information about these and other programs at [dtecleanenergy.com](https://dtecleanenergy.com) or by going directly to the Energy Waste Reduction and Customer Pricing websites

### Energy Waste Reduction

- Visit [dteenergy.com/saveenergy](https://dteenergy.com/saveenergy) for residential offerings
- Visit [dteenergy.com/savenow](https://dteenergy.com/savenow) for business offerings

### Demand Response

- Find the demand response program that fits your lifestyle and enroll
- Reduce your energy usage when called upon by the Company
- Receive an incentive as a “Thank you” from DTE
- Visit [dteenergy.com](https://dteenergy.com) click on electric pricing options to learn more!



Customer demand-side management programs will continue to play a critical customer role in DTE's transition to clean energy. MIGreenPower customers are also key to achieving net zero goals

### Customer demand-side management



### MIGreenPower



# DTE continues to be Michigan's largest investor in renewable energy as well as the state's largest producer of clean power



- Renewable Energy is power we generate from replenishable resources. The majority of DTE's renewable energy fleet is wind, but going forward, we will be adding a lot more solar
- Since 2009, DTE has driven investment of \$3 billion in renewable energy in Michigan and will spend or will support the investment of an additional \$2.8 billion over the next few years
- DTE's investment in renewable energy has created or sustained 4,000 jobs since 2009



# MIGreenPower

## Overview

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- Voluntary renewable energy program available to all of DTE's 2.2 million electric customers
- Allows customers to attribute even more of their electricity use to wind and solar
- Helps customers reduce their carbon footprint and accelerate the development of new renewable energy projects in Michigan
- Contributes to the strength of our state's economy and creates a cleaner Michigan
- Michigan Public Service Commission approved and Green-e energy certified



# MI GreenPower

## Program Design

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- **Simple** – It takes less than 5 minutes to sign-up
- **Customizable** – Choose your participation level in 5% increments, up to 100%
- **Flexible** – no long-term commitment or cancellation fees<sup>1</sup>; Multiple contract term options of 5, 10, and 20 years for business customers<sup>2</sup>
- **Affordable** - No upfront capital or infrastructure costs



# The MIGreenPower program has continued to see significant success across all customer segments, becoming the nation's 2<sup>nd</sup> largest from a MWh perspective



## Residential

- Recently crossed the 50,000-customer enrollment mark



## Small Business

- More than 500 cumulative enrollments through February 2022

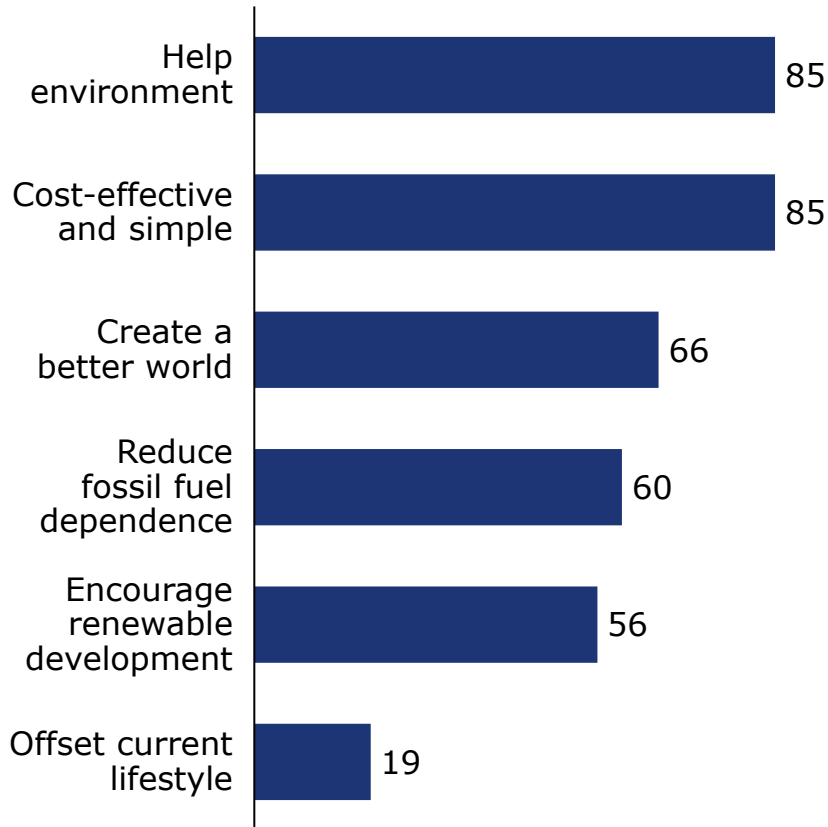


## Large Business

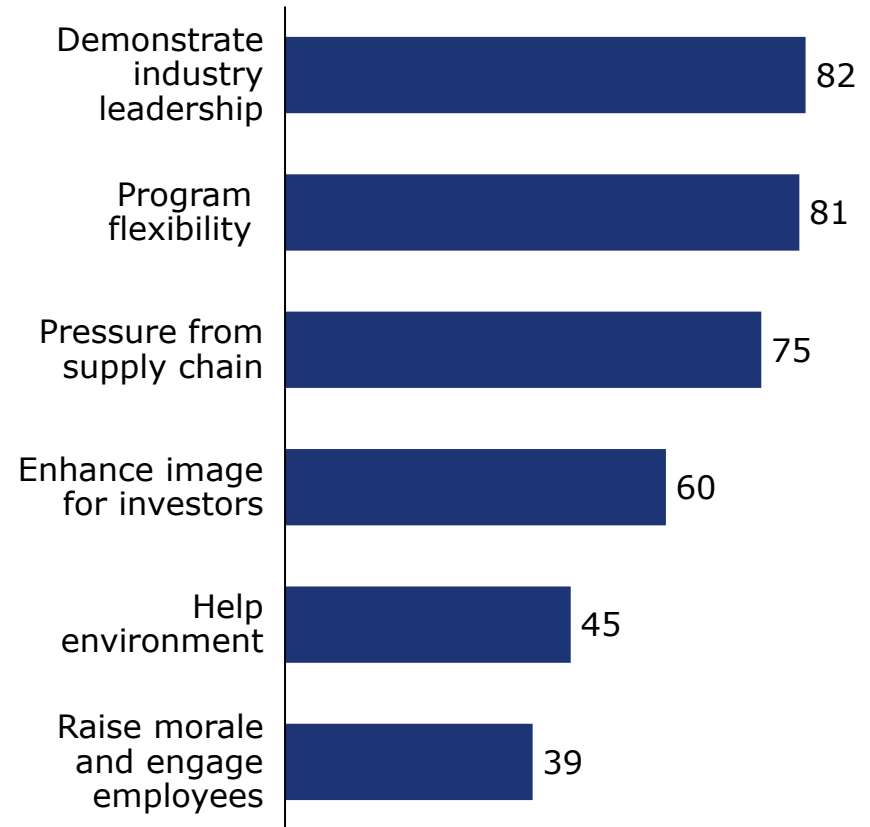


# The success of the program is supported by clear sustainability-related sentiments across our various customer segments

**Residential / Small Business Segments  
(% Response)<sup>1</sup>**



**Large Business Segment  
(% Response)<sup>2</sup>**



To learn more about or join the programs presented today, visit [dtecleanenergy.com](https://dtecleanenergy.com)

## Join the Journey

We all need to do our part to help protect the environment for our families and generations to come. Reducing carbon emissions is a key to combatting climate change. DTE offers several opportunities to you to make a difference at a local or state level, at home or on the move.



### Transform Your Home

From windows and insulation to smart home devices, we have the resources you need to increase your energy efficiency. DTE Energy's residential and business customers will save nearly \$400 million on their cumulative lifetime energy bills thanks to their participation in the company's efficiency programs.

[GET STARTED >](#)



### Drive an Electric Vehicle

You can reduce your carbon emissions by 60% when you switch to driving an electric vehicle. DTE Energy is here to help you on the road to owning an electric vehicle with Charging Forward, our EV charger incentive program that provides qualified EV drivers with \$500 back.

[TAKE ME THERE >](#)



### Join MIGreenPower

DTE's popular MIGreenPower program enables customers to attribute up to 100% of their energy use to Michigan-made wind and solar, whether they own or rent their home or office space. Nearly 500 customers are joining MIGreenPower each week, reducing their carbon footprint and bringing more clean energy onto the grid. MIGreenPower subscribers have already enrolled 1.8 million megawatts of clean energy in the program, reducing 1.4 million tons of carbon dioxide emissions.

[JOIN TODAY >](#)



### Recycle Your Old Appliances

It's the easy way to clean up and save. If you have an old refrigerator or freezer that still works, DTE Energy will recycle it for free and you'll receive a \$50 check. Plus, save more when you recycle other appliances.

[TAKE ME THERE >](#)

We look forward to your continued engagement. Please save the date for the future meetings and visit our website or contact us at any time for additional information

### Public Open House Meetings

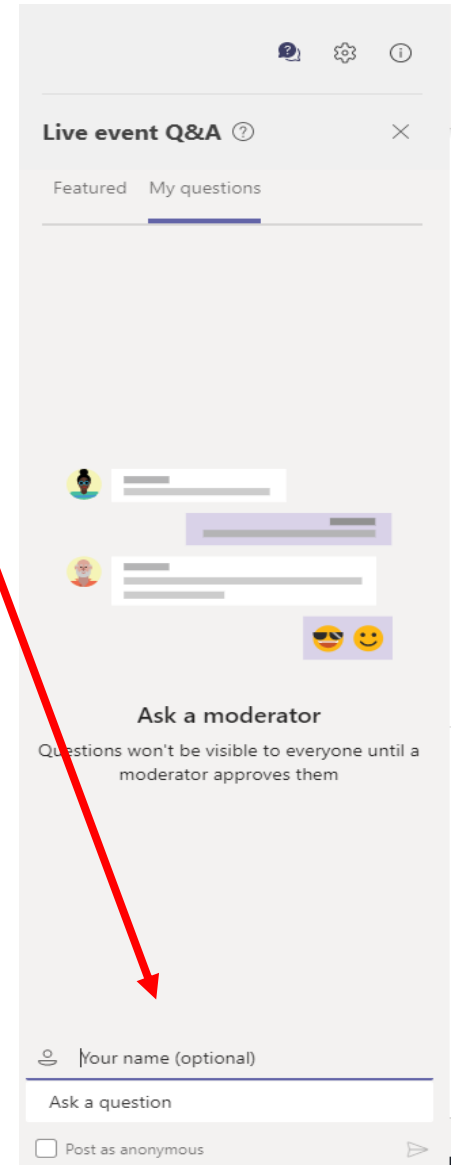
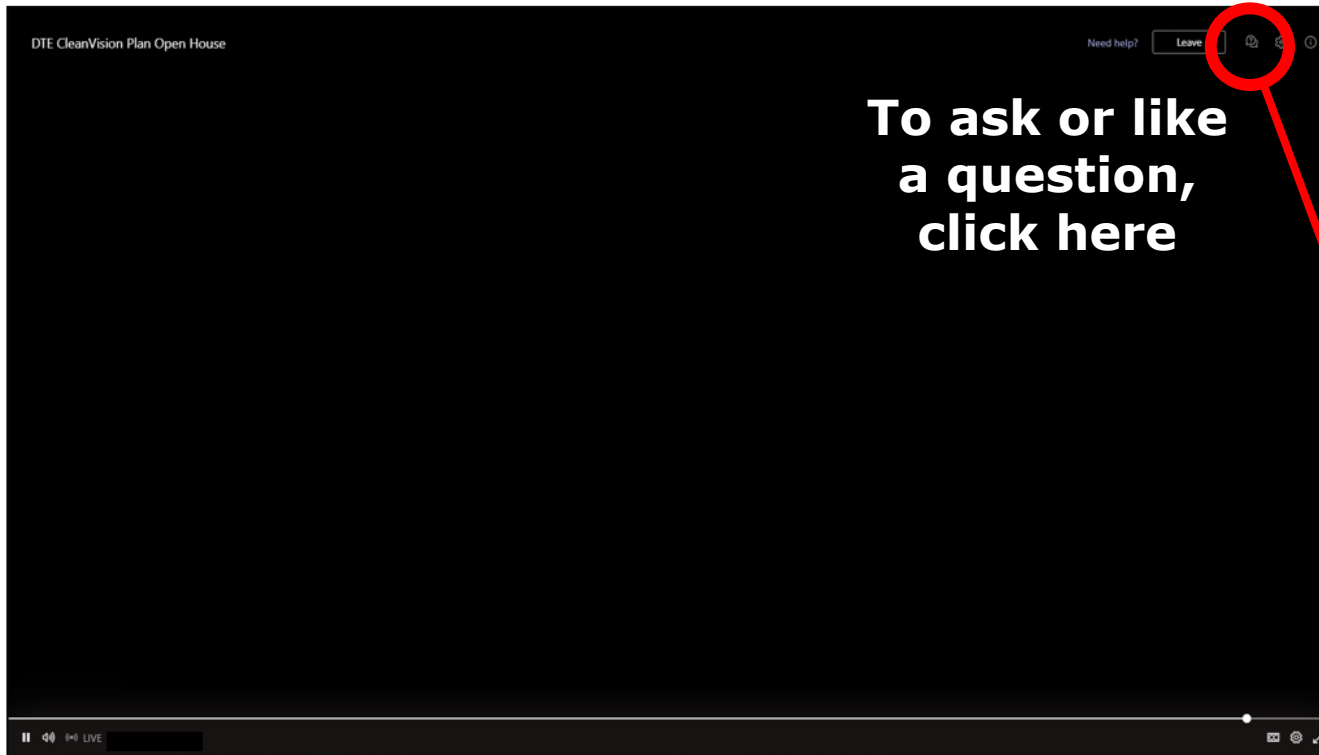
Date	Topic(s)	Additional Information
<b>January 18</b>	<ul style="list-style-type: none"> <li>• Introduction to CleanVision Plan</li> <li>• Overview of Integrated Resource Planning</li> </ul>	<ul style="list-style-type: none"> <li>• Presentation, recordings and transcripts posted on website</li> </ul>
<b>February 22</b>	<ul style="list-style-type: none"> <li>• Renewable Energy Overview</li> <li>• Introduction to Emerging Technologies</li> </ul>	<ul style="list-style-type: none"> <li>• Presentation, recordings and transcripts posted on website</li> </ul>
<b>March 22</b>	<ul style="list-style-type: none"> <li>• Energy Waste Reduction and Demand Response</li> <li>• MIGreenPower</li> </ul>	<ul style="list-style-type: none"> <li>• Presentation posted on website; recordings and transcripts from today coming soon</li> </ul>
<b>April 19</b>	<ul style="list-style-type: none"> <li>• Coal Plant Retirements and Transition (i.e., Retire with PRIDE)</li> <li>• Grid Modernization and Reliability</li> </ul>	<ul style="list-style-type: none"> <li>• 1:00 pm: <a href="#">Teams Live LINK</a></li> <li>• 6:00 pm: <a href="#">Teams Live LINK</a></li> </ul>

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# Questions?

## Helpful Tips: Submitting a Question



# Thank You!

Thank you for joining us!

- You may find additional information, including a copy of this presentation, on our website [dtecleanenergy.com](http://dtecleanenergy.com)
  - We will be posting recordings and transcripts of today's public meetings on our website in the coming days
  - Please check on our website for future meeting information, including time and meeting links
- You may also find an FAQ on our website; we would like your feedback on any additional questions you may have
- Please submit your question(s) or comments on our website, linked above, or at [DTE\\_Electric\\_CleanVision@dteenergy.com](mailto:DTE_Electric_CleanVision@dteenergy.com) ([link](#)) at any time