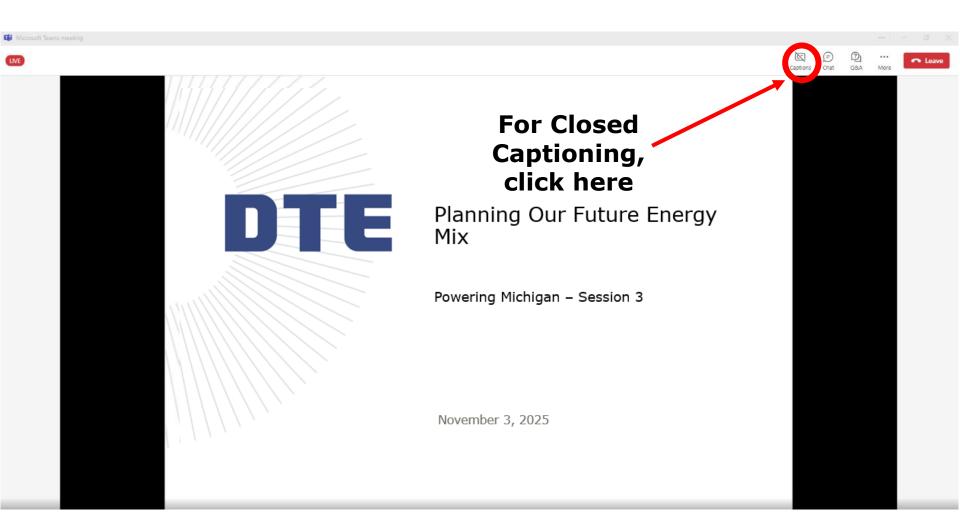


# Planning Our Future Energy Mix

Powering Michigan – Session 3

November 3, 2025

# Helpful Hints – Closed Captioning





# Helpful Hints – Q&A

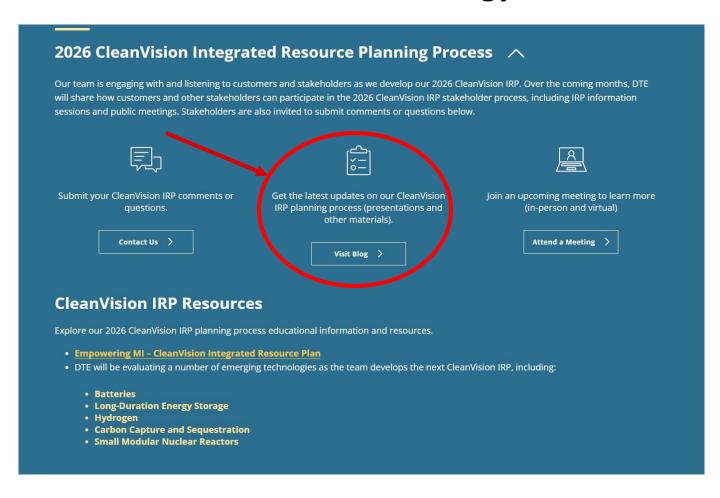


- If on Teams App: Post question in the Q & A
- If on Web Browser or phone: Email question to DTE\_Electric\_CleanVision@dteenergy.com



### Presentations, Recordings & Transcriptions

### Visit dtecleanenergy.com







# The focus for today is the Integrated Resource Plan, or IRP

### **Powering Michigan Series**

- Session 1 October 1, 2025:
   A look at our energy system and planning processes
- Session 2 October 20, 2025: Building a smarter, stronger grid
- Session 3 November 3, 2025:
   Planning our clean energy future

### Agenda for today:

- DTE's Generation Resources
- ☐ Integrated Resource Plan (IRP) Purpose
- □ DTE's 2022 CleanVision IRP
- ☐ 2026 IRP Development
  - □ Clean Energy Legislation
  - □ IRP Modeling
  - ☐ IRP Stakeholder Engagement
- □ Q&A



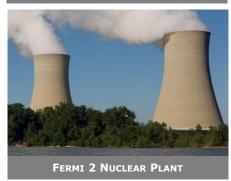
# DTE has a diverse portfolio of generation assets capable of producing more than 12,000 MW













# DTE Electric's generation resources include:

- 34 Solar Farms
- 20 Wind Parks
- Ludington Pumped Storage<sup>1</sup>
- Slocum Battery Energy Storage System
- Blue Water Energy Center (natural gasfired)
- Belle River Power Plant (coal-fired plant that is being converted to natural gas)
- Fermi 2 Nuclear Power Plant
- Monroe Power Plant (coal-fired)



# An Integrated Resource Plan (IRP) provides the roadmap for how we will produce the electricity supply

### **Definition**



 An Integrated Resource Plan (IRP) is a comprehensive plan to meet customers' electricity needs for the next 5, 10 and 15 years

### Requirements



 Utilities are required by Michigan law to file an IRP at least every 5 years<sup>1</sup>

# Review Process

- The Michigan Public Service Commission (MPSC) Staff and other stakeholders review the proposal through a nearly year-long, formal process
- The Commission reviews and approves final plan

### Our planning processes are guided by the following objectives



### SAFE:

Public and employees are kept free from injury; meet all State and Federal requirements



### **RELIABLE AND RESILIENT:**

Minimal equipment outages and disruptions to customers



### **AFFORDABLE:**

**Cost-effective service provided to all customers** 



### **CUSTOMER ACCESSIBILITY AND COMMUNITY FOCUS:**

Flexible energy options available to all customers; timely two-way communication with customers and stakeholders in all communities



### **CLEAN:**

Operate in an environmentally sustainable manner and achieve low carbon aspirations enabling a decarbonized economy in Michigan



# Our generation mix is dramatically changing under our current CleanVision Integrated Resource Plan

### 2022 Plan Summary

(2023-2042)





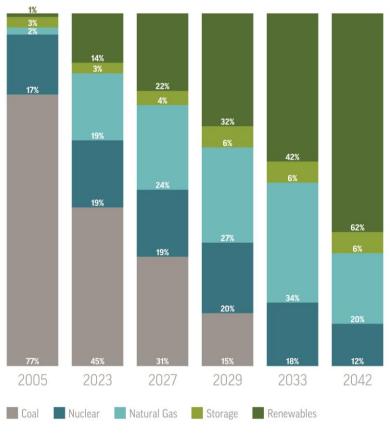






## Proposed Generation Mix

(2005-2042, MWh%)





# In 2023, Michigan passed historic clean energy legislation, making Michigan a national leader in addressing climate change





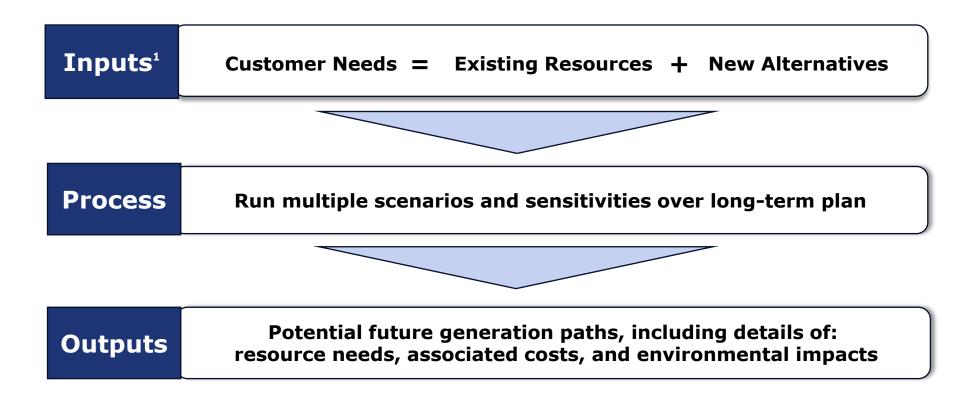
### MI Clean Energy Legislation<sup>1</sup>

- State-wide Storage Target: State-wide energy storage mandate of 2,500 MW by 2030
- Renewable Portfolio Standard: Increased the Renewable Portfolio Standard to 50% by 2030 and 60% by 2035
- Clean Energy Standard: Introduced the Clean Energy Standard of 80% by 2035 and 100% by 2040
- IRP Filing Provisions: Expanded the IRP filing requirements to include environmental justice and affordability analyses

The 2026 IRP will provide a pathway for meeting these new standards

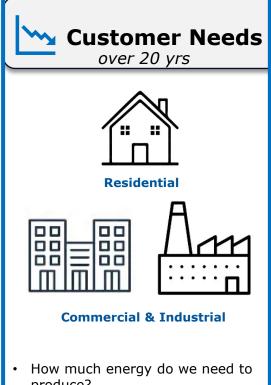


# IRP modeling forecasts customer needs, system and fleet resources many years into the future

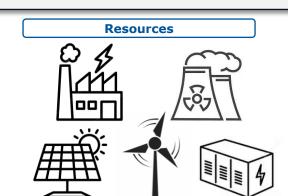




An IRP is developed through evaluating customer needs and how to meet those needs reliably while balancing affordability as we continue to decarbonize



- produce?
- · How can customer energy needs change over time?



**Existing Resources** 

### **Energy Demand Management**



- Do we have enough existing resources to meet customer needs reliably?
- What is the cost and performance of the existing resources over time?
- What are possible retirement options for existing resources?

### **Examples:**

+ New Alternatives



### **Emerging Technologies**





**Energy Demand Management** 



- What new resources are considered over this time period?
- What is the cost and performance of these new resources over time?
- How will our environmental impact change with the new resources?

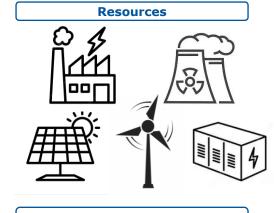


An IRP is developed through evaluating customer needs and how to meet those needs reliably while balancing affordability as we continue to decarbonize



- How much energy do we need to produce?
- How can customer energy needs change over time?

# **Existing Resources**



**Energy Demand Management** 

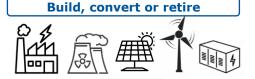


- Do we have enough existing resources to meet customer needs reliably?
- What is the cost and performance of the existing resources over time?
- What are possible retirement options for existing resources?



# + New Alternatives

### Examples:



#### **Emerging Technologies**



**Energy Demand Management** 



- What new resources are considered over this time period?
- What is the cost and performance of these new resources over time?
- How will our environmental impact change with the new resources?



An IRP is developed through evaluating customer needs and how to meet those needs reliably while balancing affordability as we continue to decarbonize

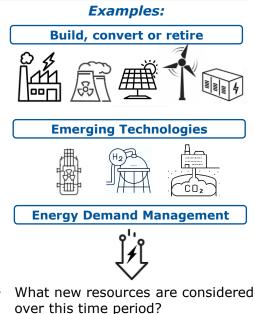


**Commercial & Industrial** 

- How much energy do we need to produce?
- How can customer energy needs change over time?
- Do we have enough existing resources to meet customer needs reliably?

**Energy Demand Management** 

- What is the cost and performance of the existing resources over time?
- What are possible retirement options for existing resources?



What is the cost and performance of

these new resources over time?

How will our environmental impact

change with the new resources?



# Technical Stakeholders provide detailed feedback on the IRP Modeling process

Technical Stakeholder Workshops	Purpose	Date	
Session #1	2022 IRP and changing requirements for the 2026 IRP	October 22, 2025	
Session #2	<ul> <li>Assumptions and modeling approaches for distributed generation and energy resources</li> <li>Scenarios and sensitivities</li> </ul>	December 11, 2025	
Session #3	<ul> <li>Assumptions and methodologies in the load forecasting and energy waste reduction (EWR) processes</li> <li>Technology alternatives</li> </ul>	January 29, 2026	
Session #4	<ul><li>Three phased reliability modeling approach</li><li>Supplemental analyses involved in IRP process</li></ul>	March 10, 2026	
Session #5	Common trends in modeling results	May 7, 2026	



# Customers have been engaged throughout the planning process through various channels











# After stakeholder feedback is considered, our IRP proposal is developed and filed with the MI Public Service Commission for a formal review process

### **DTE's 2022 IRP Application**

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

In the matter of the Application of DTE ELECTRIC COMPANY for approval of its Integrated Resource Plan pursuant to MCL 460.61, and for other relief

Case No. U-21193

#### APPLICATION

DTE Electric Company ("DTE Electric" or the "Company") respectfully requests that the Michigan Public Service Commission ("MPSC" or the "Commission") issue an order approving the Company's Integrated Resource Plan ("IRP") pursuant to Section 6t of 2006 PA 341, MCL 460.6t, the Commission's September 24, 2021 and February 18, 2021 orders in Case No. U-20633, February 18, 2021 and December 20, 2017 orders in Case No. U-18461, November 21, 2017 order in Case No. U-18418, and all other applicable law. In support of this Application, DTE Electric states as follows:

#### I. INTRODUCTION

- DTE Electric is a wholly owned subsidiary of DTE Energy that supplies retail electric service to customers located in Michigan. The Company's business address is One Energy Plaza, Detroit, Michigan, 48226. Any correspondence concerning this application shall be directed to its attorneys at their business address provided below.
- 2. DTE Electric's retail electric business is subject to the jurisdiction of the Commission pursuant to various provisions of 1909 PA 106, as amended, MCL 460.51, et seq. 1919 PA 419, as amended, MCL 460.54, et seq. 1939 PA 3, as amended, MCL 460.1, et seq. including 2016 PA 341 ("the Act"). Pursuant to these statutory provisions, the Commission has the power and jurisdiction to regulate DTE Electric's retail electric rates.

DTE ELECTRIC COMPANY
ATIONS AND DIRECT TESTIMONY OF JOYCE E. LESLIE

is your full name, title, business address and by whom you are sed?

me is Joyce E. Leslie, Director (she/her/hers). My business address is One Plaza, Detroit, Michigan 48226. I am the Director of Business Planning reelopment and am employed by DTE Electric Company (DTE Electric or

#### ose behalf are you testifying?

stifying on behalf of DTE Electric.

#### s your educational background?

ated from Central Michigan University with a Bachelor of Science Degree ness Administration, Accounting, and a minor in Economics. I received my 's degree in Business Administration from the University of Michigan.

#### work experience do you have?

a my career with Deloitte & Touche in the Auditing division as a Senior r and worked there for two and a half years. I began working for MCN Group, Inc. in 1996, as an accountant prior to its merger with DTE Energy. the years, I held a number of positions with increasing leadership sibilities in areas that include Energy Trading, Enterprise Risk Management, Iller for Gas Financial Support, Investor Relations, Electric Strategy and Projects, and Business Planning and Development.

JEL-1

S. D. BURGDORF U-21193

our projection of a reasonable range for potential MISO Zone 7 compared to the LCR and PRMR for Planning Years 2023/24, 125/26, 2026/27 and 2027/28?

ows a range of MISO Zone 7 resource positions compared to the CR and PRMR based on recent MISO data from the 2022 LOLE report, A results from PV 2022/23 and adjusting the MPSC Staff Report for acity demonstrations in Case No. U-21099 for DTE Electric resource 4 estimated Consumers Energy resource changes.

Resource Adequacy for Planning Year 2022/23 and forecasts for 023/24, 2024/25, 2025/26, 2026/27 and 2027/28

	PY 2022/23	PV 2023/24	PY 2824/25	PY 2825/26	PY 2826/27	PV 2827/28
lemand (MW) <sup>1</sup>	20,920	20,942	21,258	21,607	21,521	21,386
Capacity per-unit of	119.40%	119.4% -	119.4% -	119.4% -	119.4% -	119.4% -
ty Requirement (LRR = 2)	24,978	25,005 - 25,382	25,382 - 25,765	25,799 - 26,188	25,696 - 26,083	25,535 - 25,920
et Limit (CIL) <sup>2</sup>	3,749	5,087	3,200 - 5,087	3,200 - 5,087	3,200 - 5,087	3,200 - 5,087
Requirement (LCR = 0)	21,229	19,918 - 22,182	20,295 - 22,565	20,712 - 22,988	20,609 - 22,883	20,448 - 22,720
DOX (MW UCAP) <sup>3</sup>	21,489	22,638	22,864	22,221	22,579	22,578
(Line 6 - Line 5)	260	456 - 2,720	299 - 2,569	(767) - 1,509	(304) - 1,971	(142) - 2,130
IR Position without inc 7 - 1,215 MW				(1,982) - 294	(1,519) - 756	(1,357) - 915
rve Margin Requirement	21,886	22,174	22,419	22,696	22,615	22,484
· Line 5)	656	(7) - 2,257	(146) - 2,124	(292) - 1,984	(268) - 2,007	(236) - 2,036
IMR Position without ine 6 - Line 9 - 1,215				(1,689)	(1,251)	(1,121)

\$23 Less of Load Expectation Report including known DTE peak bad changes
25 and 2023-24 are actual. Other years based on interior range of CIL values
25 in actual. Other years based on 2022-23 LOLE Study Report including known DTE resource changes
names 189 actification
26 in actual. Other years based on 2022-23 LOLE Report adjusted for DTE peak load changes

SDR-22



## Please post or send your questions



- If on Teams App: Post question in the Q & A
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### Your voice matters!







Share your comments or questions:



### **Email us:**

IRP: dte\_electric\_cleanvision@dteenergy.com

**DSP:** <u>DTE.DSP@dteenergy.com</u>

### **Learn more:**



dtecleanenergy.com

