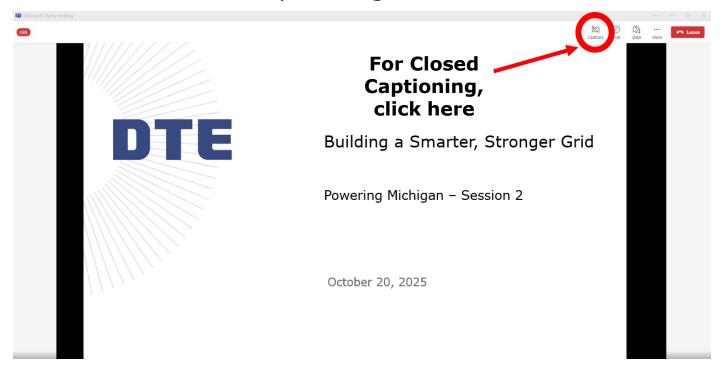


Building a Smarter, Stronger Grid

Powering Michigan – Session 2

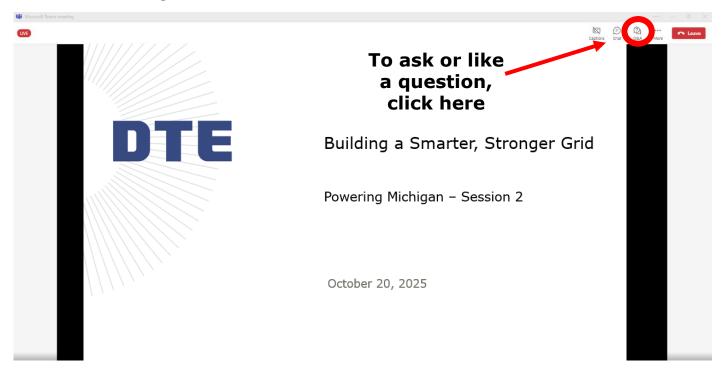
October 20, 2025

Helpful Hints – Closed Captioning





Helpful Hints – Q&A





The focus for today is the Distribution System Plan, or DSP

Powering Michigan Series

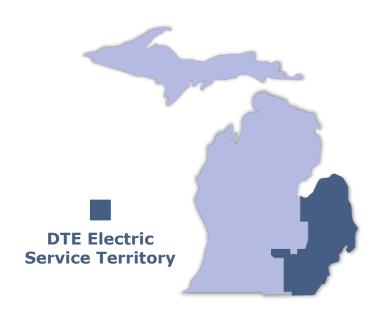
- Session 1 October 1, 2025:
 A look at our energy system and planning processes
- Session 2 October 20, 2025:
 Building a smarter, stronger grid
- Session 3 November 3, 2025:
 Planning our clean energy future

<u>Planned agenda for today:</u>

- ☐ Overview of DTE Electric and the distribution system
- ☐ Summary of the DSP purpose and process
- ☐ Reminder of our 4-point plan to improve reliability
- ☐ Preview of other DSP content, including enabling technologies and cost effectiveness approach
- Ways to connect with the DSP team
- □ Q & A



DTE Electric Overview



- Founded in 1903
- Own and operate generation and distribution assets
- Serving 2.3M customers in southeast Michigan
- Nearly 10,000 employees

Now let's walk through the energy system to understand electricity's journey from being generated to distributed to your home or business

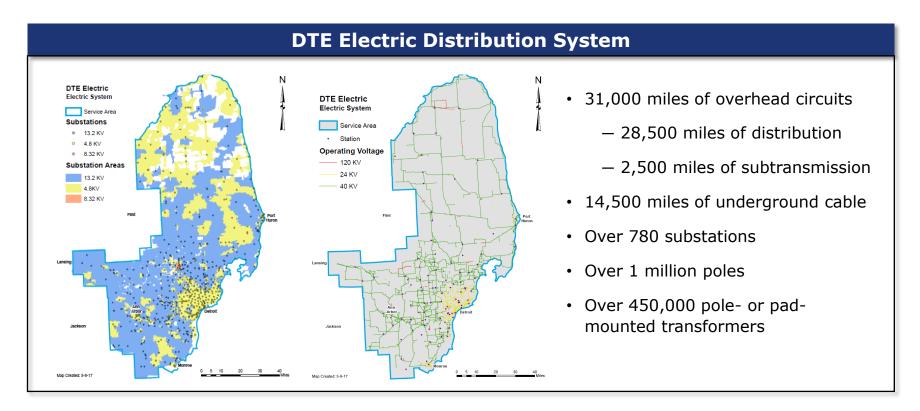


The Electric System





DTE's electric grid is vast and serves over 2.3M customers





Our planning is guided by the following objectives



SAFE:

Public and employees are kept free from injury



RELIABLE AND RESILIENT:

Minimal equipment outages and disruptions to customers



AFFORDABLE:

Cost-effective service provided to all customers



CUSTOMER ACCESSIBILITY:

Flexible energy options available to all customers



CLEAN:

Operate in an environmentally sustainable manner and achieve low carbon aspirations



The DSP allows for review of the utility's strategic roadmap

Definition



• The Distribution System Plan (DSP) details a five-year investment plan as well as an extended 10-15 year outlook from the date of filing

Requirements



- Per guidelines, a utility must file a DSP every three years (or as otherwise ordered by the Commission)
- The Utility must include an action plan to address the established shortterm and long-term challenges and needs

Review Process



- The process allows the Commission and other interested parties an opportunity to fully evaluate significant and necessary investments
- Investments proposed in the DSP must align with future rate proposals



In July, the Commission provided filing guidelines for the DSP

Context

- I. Objectives and Goals
- II. Third Party and Community Outreach
 - Summary of pre-filing outreach
 - Summary of ongoing outreach efforts

State of the System

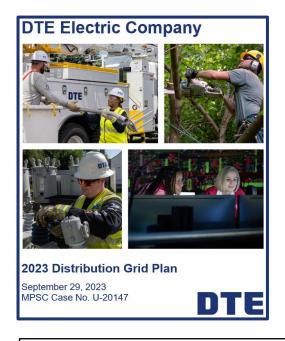
- III. Distribution System Overview
 - General asset health & condition
 - Historical reliability, safety, investment, and outage information
 - Operations & programs (e.g., tree trimming, storm response and restoration, asset management, and community lighting)
 - Historical overlay maps
 - Resource challenges
 - Environmental justice mapping analysis

Planning for the Future

- IV. Distribution System Planning
 - · Action plan to address short-term and long-term challenges and needs
 - · Benefit-cost analysis, including methodology and alternatives considered
 - Load forecasts, scenario planning, and distributed energy resource outlook
 - Forecasted reliability metrics and targeted goals
 - Forecasted O&M and capital investment projections
 - Forecasted workforce and material resources.
 - · Any anticipated changes to operations and programs from section III
 - Planned investment overlay maps
 - Description of proposed resilience programs
 - Grid modernization efforts, including distributed energy resources, non-wire alternatives, rebuilds/hardening/conversions, and incorporation of technology
 - Hosting capacity analysis
 - Customer affordability analysis



We will file the next DSP – our fourth to date – by June 30



- In 2016, the Commission directed DTE, Consumers and other utilities to develop a five-year distribution investment and maintenance plan
 - DTE filed plans in 2018, 2021, and 2023
 - The 2021 plan was the first to contain a 15-year view of the grid and a 5-year review of investment
- The Commission has directed DTE to file the next iteration of the DSP (previously known as the Distribution Grid Plan, or DGP) by June 30, 2026

The next pages offer a preview of some of the investment programs and content that will be included as part of the upcoming DSP



The DSP will include an update on DTE's 4-point plan (1 of 4)





- DTE plans to fully automate the electric grid by 2029 with smart devices to reduce outages
- DTE's new technology, like reclosers:
 - Helps crews pinpoint damage, making restoration faster
 - Allows us to isolate the damage and re-route power so the lights stay on for more customers while crews make repairs
- So far this year, smart devices have helped customers avoid more than 19,000 outages



The DSP will include an update on DTE's 4-point plan (2 of 4)



- DTE is actively inspecting and upgrading poles, cross arms, transformers, and other equipment throughout its service territory
- New, modern pole-top equipment is made of stronger materials, experiences less deterioration from the elements, and can better withstand increasingly severe weather
- DTE has inspected and upgraded more than 575 miles of electric equipment throughout its electric service territory so far this year - with plans to do more by year end



The DSP will include an update on DTE's 4-point plan (3 of 4)



- DTE is working to rebuild significant sections of the electric grid including new, modern substations and entirely upgraded circuits
 - Areas with older infrastructure and lower voltage systems are being converted and updated to higher voltage to increase capacity and improve reliability
- DTE has recently completed seven new substation projects and have several others in various stages of construction, from Ann Arbor to Detroit to Port Huron and more



The DSP will include an update on DTE's 4-point plan (4 of 4)



- Tree trimming is one of the most effective methods to improve electric reliability
- Trees account for half of the time our customers are without power
- DTE has trimmed nearly 40,000 miles of trees since 2015
- By the end of this year, we will have trimmed our entire system over the last five years



Technology-related opportunities will be included in the DSP to further advance the grid and improve reliability and efficiency

Technology Investment Opportunities in Consideration

Enhanced Grid Visibility and Control



- Enhanced grid visibility and control with technologies and advanced metering as enablers for Distributed Energy Resources (DERs)
- Next generation metering system with real-time data collection

Last Mile Communications



- Hybrid approach of fiber/wireless network to meet the communication needs of the modern grid
- Enable smart grid growth while staying independent from bandwidth-limited public carriers

Asset Inspection Technology



- Launch a drone program to support asset management, storm restoration, and tree trimming
- Use autonomous and pre-planned flights for inspections and at-risk equipment identification

Asset Analytics & Condition Monitoring



- Leverage available technologies for realtime equipment monitoring
- Improve analytics to proactively identify high risk assets resulting in increased system reliability



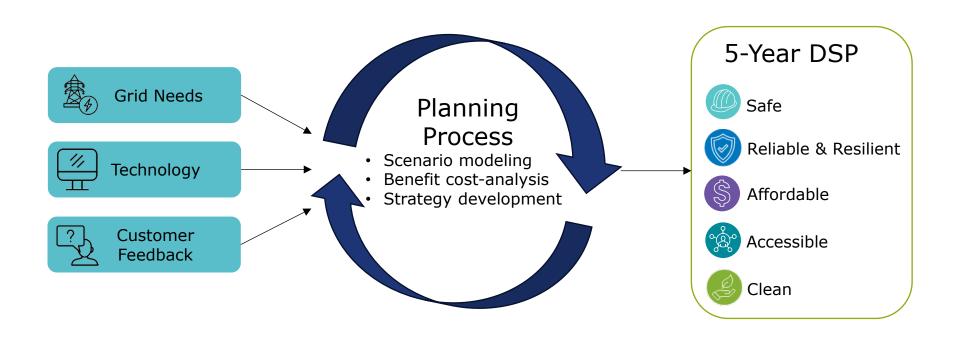
The next DSP will have increased justification for investment; four cost-effectiveness methods are being considered

Quantitative	
Qualitative	

Method	Description	Key Driver(s)
Monetized Benefit-Cost Analysis	 Analytical approach comparing dollar value of benefits versus costs Utilization of robust industry valuation framework for reliability-driven projects (e.g., interruption cost estimate, or ICE, calculator and avoided reactive spend) 	Reliability
Hybrid	 Combination of monetary benefits and descriptive justification that together demonstrate cost effectiveness Potentially includes alternative studies to provide further support on selected projects 	Combined benefits of safety, capacity, reliability, resiliency, etc.
Least Cost and Best Fit	 Coupled with alternative studies (e.g., non-wire alternatives) to demonstrate adherence to "least cost and best fit" standard Applicable for projects that fulfill utility obligations to serve customer load 	System loading relief
Descriptive Justification	7 130 applicable for investments that have gamed made in which support, are for	



The planning process is underway to deliver a robust DSP





Questions and Comments



- What problems do you think we should be working to solve with the DSP?
- What goals and possible solutions should we be considering?
- How should DTE balance affordability with reliability?



Your voice matters!







- Email us any questions or comments at DTE.DSP@dteenergy.com
- Join Session 3 of Powering Michigan on November 3 at 5:30 pm to learn more about how we are planning our future energy mix
 - Visit dtecleanenergy.com for more information
- Come learn more at the Community Open House at the Canton Public Library on November 17 from 4-6 pm

