



Making the Most of Michigan's Energy Future

MI Power Grid Overview

October 29, 2020 Status Update



MPSC

Michigan Public Service Commission



- Focused, multi-year stakeholder initiative to maximize the benefits of the transition to clean, distributed energy resources for Michigan residents and businesses
- Engages utility customers and other stakeholders to help integrate new clean energy technologies and optimize grid investments for reliable, affordable electricity service
- Includes outreach, education, and regulatory reforms



Barriers/Challenges

- Outdated planning, procurement & interconnection models
- Rates (design and marketing)
- Regulatory/legal ambiguities; reactive approach
- Unclear roles and boundaries of utility, RTO, DER providers, and customers
- Data access limitations
- Utility investment incentives (return on capital)
- Operational capabilities

Drivers/Opportunities

- Declining costs
- Customer demand
- Technological innovation
- Environmental benefits

Solution

Holistic approach to maximize benefits of transition to clean, distributed energy resources for Michiganders

Three areas of emphasis:

- Customer engagement
- Integrating emerging technologies
- Optimizing grid investments and performance



Customer Engagement

- Demand Response
- Energy Programs and Technology Pilots
- Innovative Rate Offerings
 - Time-Based Pricing
 - Distributed Generation Pricing
 - Voluntary Green Pricing
- Customer Education and Participation



Integrating Emerging Technologies

- Interconnection Standards and Worker Safety
- Competitive Procurement
- New Technologies and Business Models
- Data Access and Privacy
 - Distribution System Data Access
 - Customer Data Access and Privacy



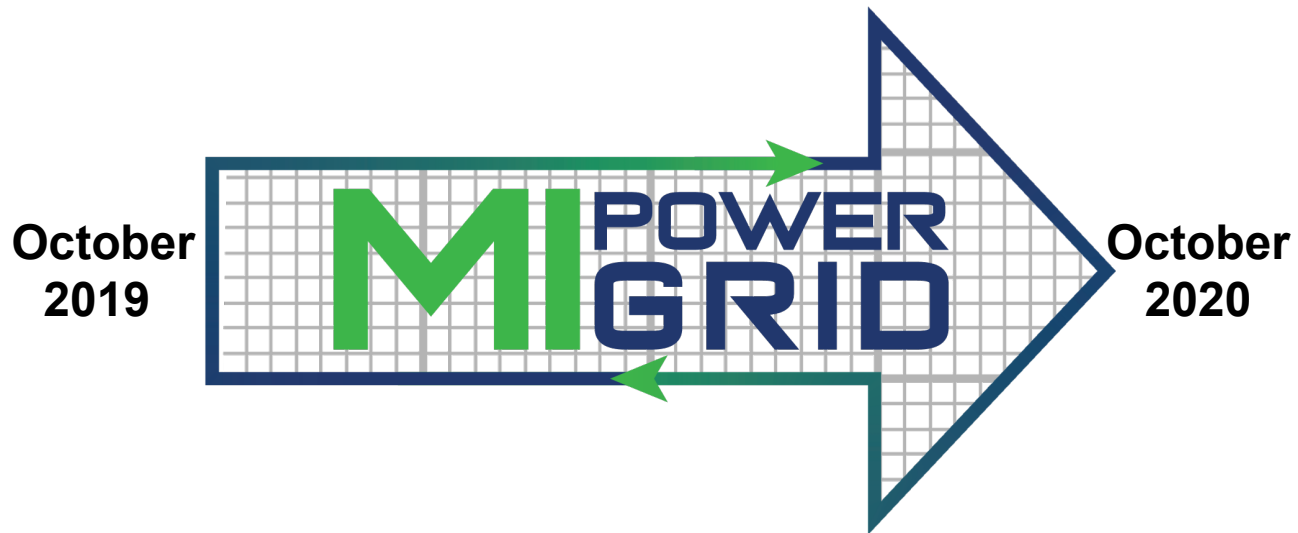
Optimizing Grid Investments and Performance

- Grid Security and Reliability Standards
- Advanced Planning Processes
 - Phase I – Electric Distribution Planning
 - Phase II – Integration of Resource/Transmission/Distribution Planning
 - Phase III – Integrated Resource Plan (MIRPP, Filing Requirements, Demand Response Study, Energy Waste Reduction Study)
- Financial Incentives/Disincentives



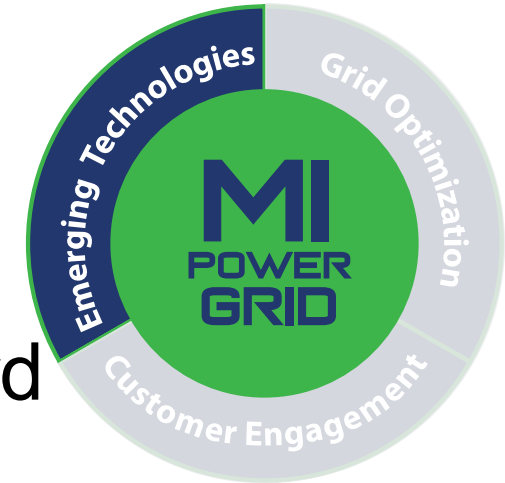
Phase I Activities

- Interconnection Standards and Worker Safety
- Electric Distribution Planning
- Grid Security and Reliability Standards
- Demand Response
- Energy Programs and Technology Pilots



Interconnection Standards and Worker Safety

- Workgroup activity began prior to the onset of MI Power Grid
- 10 stakeholder meetings were held from December 2018 through March 2020
- Developed streamlined standards governing the process to interconnect customer and third party-owned resources to the utility grid in a timely and safe fashion



Workgroup Initiated
11/8/2018

10 Stakeholder Meetings Conducted
12/7/2018 – 3/24/2020

Formal Rulemaking
Commences

Electric Distribution Planning

- Workgroup activity also began prior to the onset of MI Power Grid
- Five stakeholder meetings were held from June through November 2019
- Staff report and recommendations filed on April 1, 2020
- The Commission, based on Staff recommendations, provided expectations for the next round of electric utility distribution system investment plans



Workgroup Initiated
11/21/2018

5 Stakeholder Meetings Conducted
6/27/2019 – 11/19/2019

Staff Report
4/1/2020

Commission Order
8/20/2020

Grid Security and Reliability Standards

- Workgroup initiated in September 2019 and held four stakeholder meetings
- Charged with recommending revisions to the Service Quality and Reliability Standards as well as the Technical Standards for Electric Service rulesets
- Identified gaps in existing rules and proposed solutions, including improvements in expected levels of performance, requiring automatic bill credits for customers who experience long-term or multiple outages, as well as strengthening cybersecurity monitoring and reporting.



Workgroup Initiated
9/11/2019

4 Stakeholder Meetings Conducted
12/3/2019 – 3/12/2020

Initial Report
7/31/2020

Final Report
12/15/2020

Demand Response

- Workgroup initiated in September 2019 and held four stakeholder meetings
- Tasked with tackling demand response recommendations from the Statewide Energy Assessment and identified solutions and suggested improvements
- Today, the Commission issued an order in response to Staff's report and recommendations filed on July 31, 2020



Workgroup Initiated
9/11/2019

4 Stakeholder Meetings Conducted
1/16/2020 – 4/28/2020

Staff Report
7/31/2020

Energy Programs and Technology Pilots

- Workgroup initiated in September 2019 and held seven stakeholder meetings
- Reviewed past Commission pilot programs and best practices from other states
- Recommended pilot evaluation framework and new Pilot Directory to ensure value and transparency which was adopted today by Commission order.



Workgroup Initiated
10/17/2019

7 Stakeholder Meetings Conducted
2/27/2020 – 6/25/2020

Staff Report
9/30/2020

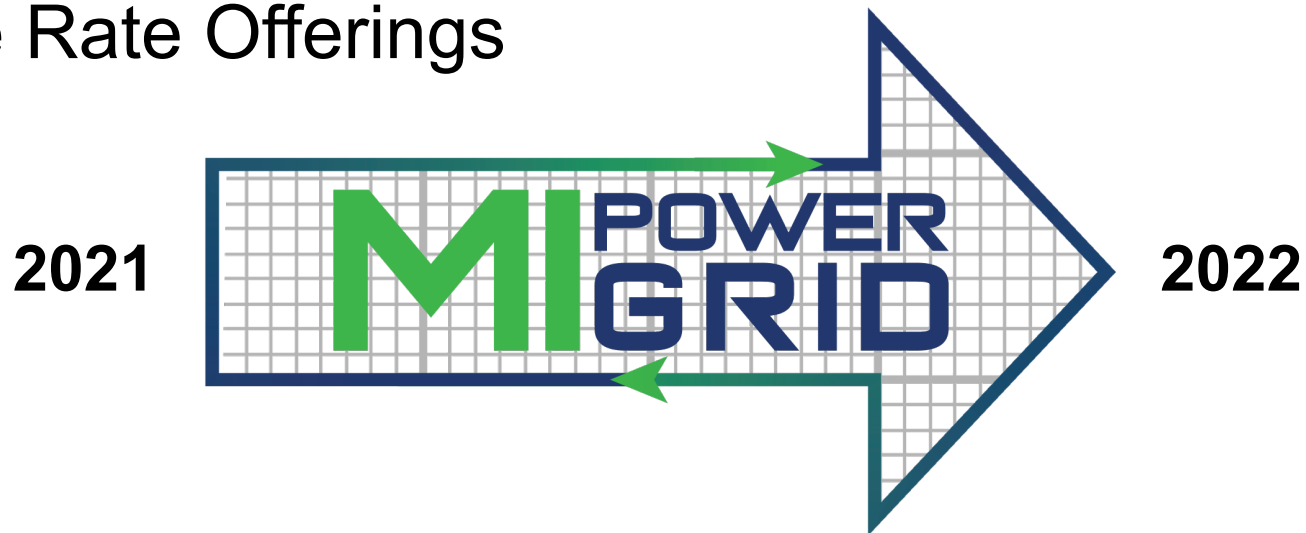
Phase II Priorities

- Integration of Resource/Transmission/Distribution Planning
- Competitive Procurement
- New Technologies and Business Models



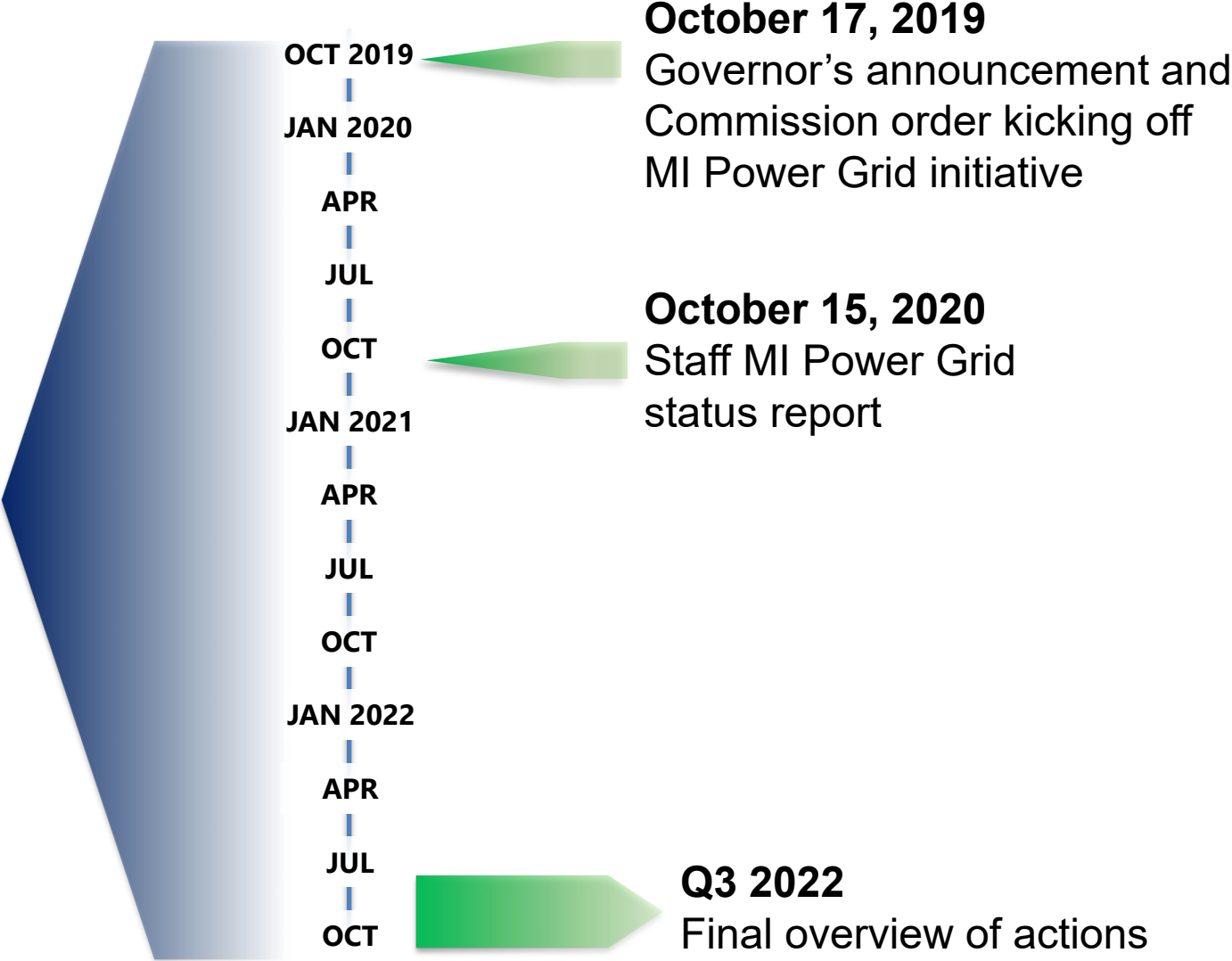
Remaining Priorities

- Customer Education and Participation
- Financial Incentives/Disincentives
- IRP (MIRPP, Filing Requirements, Demand Response Study, Energy Waste Reduction Study)
- Data Access and Privacy
- Innovative Rate Offerings



Proposed Timeline

2019 – 2022
Rulemakings, workgroups,
collaborate on areas of focus



October 29, 2020 MI Power Grid Orders

- U-20628 – Demand Response
 - Adopts recommendations related to updating retail tariffs, directs utilities to report on communication protocols and to develop an updated 45-day report template, and requests comments in response to questions related to DR aggregation ban.
- U-20633 – Advanced Planning Process
 - Directs the Staff to work with utilities and stakeholders to develop recommendations about how best to consider Governor Whitmer’s MI Healthy Climate goals.

October 29, 2020 MI Power Grid Orders

- U-20645 – Energy Programs and Technology Pilots
 - Adopts recommendation to develop an online Michigan Pilot Directory and requests comments on Staff’s recommended objective criteria to be applied in the evaluation of pilots.
- U-20898 – New Technology and Business Models
 - Order kicking off this new workgroup that will examine regulatory and business model barriers.

How to Get Involved

www.michigan.gov/MIPowerGrid

Customer Engagement
Providing Michigan residents and businesses with the demand-side technologies, programs, and price signals that will allow these customers to be more active and effective participants in the state's transition to increased clean and distributed energy resources.

Integrating Emerging Technologies
Ensuring timely and fair grid access and appropriate information exchange to support customer-oriented solutions and reliable system operations.

Optimizing Grid Investments And Performance
Integration of transmission, distribution, and resource planning to increase transparency and optimize solutions; enhancement of tools, financial incentives, and regulatory approaches to adapt to technology change and customer preferences.

MI POWER GRID RESOURCES
For questions or comments relating to the MI Power Grid initiative please email MIPowerGrid@michigan.gov
MI Power Grid Filer
Order establishing MI Power Grid (U-20645)
Order modifying MI Power Grid activity (U-20757)

OTHER MPSC WORKGROUPS
Find helpful information on current workgroups addressing issues related to energy and telecommunications.

[VIEW ALL WORKGROUPS](#)

SIGN UP FOR MI POWER GRID UPDATES
To sign up for email updates for the MI Power Grid project, please enter your email address below.

*Email Address:
Submit

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How to Get Involved

- Email: MIPowerGrid@Michigan.gov
- Contact team leads
- Follow [@MichiganPSC](https://twitter.com/MichiganPSC) on Twitter
- Sign up for listservs on workgroup webpages

JOIN THE DISTRIBUTION PLANNING WORKGROUP MAILING LIST

Those interested in receiving updates on distribution planning, including opportunities for stakeholder participation, please join our Listserv.

*Email Address

Submit