



## MICHIGAN- STATE ENERGY PRIORITIES AND OPPORTUNITIES

### U.S.-India State and Urban Initiative

#### Michigan's Energy Profile and Priorities

Coal-fired power leads Michigan's generation mix, making up 36.7 percent of generation in November 2017. Nuclear was second at 26.5 percent, followed by natural gas at 24.4 percent, renewables at 10 percent, and petroleum-fired generation at 0.1 percent. The state requires its utilities to provide 15 percent of their portfolio from renewable energy by 2021 and has a nonbinding goal of meeting 35 percent of the state's needs with renewable energy and energy conservation by 2025. Michigan is the number one state in the nation for auto manufacturing, as it houses three of the world's major automakers: Ford, General Motors, and Fiat Chrysler US.

#### Potential Partnership Opportunities

##### *Companies, Incubators, & Research Institutions*

[Ann Arbor SPARK Regional Incubator Network](#): The SRIN runs two business incubators that provide business development guidance and access to workspace. Companies housed at the SRIN incubators focus on technologies such as electric vehicles, battery storage, and renewable fuels.

[Michigan Energy Innovation Business Council/Institute for Energy Innovation](#): The MEIBC runs the Institute for Energy Innovation, a research organization that promotes the economic benefits of advanced energy in Michigan. The organization's research areas include electric vehicles, energy efficiency, and renewable energy such as solar and wind.

[Michigan Small Business Development Center](#): The MSBDC is a small business incubator that helps startups design business plans, access capital, and commercialize technology. One of MSBDC's clients provides energy efficiency services.

[Michigan State University](#): MSU'S College of Engineering is expanding its research into solar, thermoelectric materials, biomass, and hybrid vehicles.

[Muskegon Innovation Hub](#): The Muskegon Innovation Hub at Grand Valley State University is a business incubator that provides space and business development resources to companies with innovative ideas. Multiple companies housed at "the Hub" focus on distributed or off-grid solar technologies.

[NextEnergy](#): NextEnergy is a technology accelerator that seeks to "enable smarter and more sustainable cities." Technologies and services they are accelerating include solar, smart grids, power sharing between electric vehicles and the grid, and microgrids. Notably, NextEnergy is running a demonstration program of electric scooters manufactured by Mahindra subsidiary GenZe.

[Oakland University INC](#): OU INC is a business accelerator serving the energy, medical devices, and information technology sectors. Energy companies housed at OU INC focus on hybrid three-wheel vehicles, gas storage, energy data management, and wave energy.

[Powerley](#): Powerley is a technology company that provides a platform for utilities to understand and manage energy usage from smart home technologies.



[University of Michigan Energy Institute](#): The Energy Institute is a research institute at the University of Michigan dedicated to innovation and collaboration in energy policy and energy technologies. Research areas include solar, nuclear, wind, ocean energy, and energy storage. The university's storage research is bolstered by the U-M Battery Lab, at which researchers prototype, test, and analyze batteries.

#### *State Programs*

[Michigan Agency for Energy](#): The MAE is responsible for managing the state's energy security, energy reliability, energy policy and expertise, innovation, and customer assistance. In the field of energy innovation, the agency administers state and federal grants to invest in new energy technologies.

[Agriculture & Rural Communities Energy Roadmap](#): The Michigan Agency for Energy is soliciting input on the state's energy policies and their impacts on rural agriculture.

[Michigan Clean Energy Business Development Pilot](#): The Michigan Agency for Energy provides matching grants to small businesses developing and commercializing innovations in clean energy. The program emphasizes technologies that reduce energy waste in manufacturing.

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