



# Grid-connected microgrids in municipal applications

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When connected to a grid, it can both receive or inject power into the main grid, indicating that it can improve the grid efficiency and resolve energy crisis to a certain degree.

If the microgrid is grid-connected (i.e., connected to the main electric grid), then the community can draw power from the main electric grid to supplement its own generation as needed or sell power back to

This brief seeks to introduce microgrids as a potential solution to local challenges, describe current financial and legal barriers, and outline the role that local governments can play.

Connected to the large utility grid, such MGs can offer power to urban and rural areas. This sort of MGs can contain a wide range of renewable or fossil-fueled distributed energy supplies.

Advanced microgrids enable local power generation assets--including traditional generators and storage--to keep the local grid running even when the larger grid experiences

Microgrids are suited to today's constrained municipal budgets, in that microgrids are modular so can be developed incrementally. A community may begin small with minimal investment and then gradually

The Community Microgrids program supported the design of community microgrids throughout Massachusetts to lower customer energy costs, reduce greenhouse gas (GHG) emissions, and

Through a case study in a US county, we illustrate how integrated microgrid planning effectively intertwines urban resilience, well-being and equity while promoting sustainable development.

These feasibility studies of two microgrids provided detailed information that will help the municipalities consider the potential for improved resiliency and renewable energy.

We want to help you establish a micro-grid project in your town. Contact us at [info@massclimateaction](mailto:info@massclimateaction) to learn if your town is one of the ones already started, or how to begin



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