

## Israel microgrid economics

One of the goals that a smart grid serves is to introduce renewable energies such as solar and wind into the grid, when available, and use them to replace electricity generation by burning fossil fuels. While there is a clear advantage in the use of these clean energy sources, their introduction into the grid is somewhat problematic, due to their intermittent and sometimes unexpected nature. One of the important challenges in developing the smart grid is finding ways to integrate these resources in the grid, despite these problems.

The potential benefits of the microgrid are its ability to increase the reliability of the supply to critical elements, the ability to manage the array, including prioritization during fault times, and cost savings, while integrating and optimizing the entire production system. It enables to manage consumption, while looking at the individual consumer. It can be used in several forms: minimum cost, minimum emissions, maximum availability and load shaving or peak shaving. One can choose the form to work with each day.

Beyond the potential benefits of the power system itself in terms of supply reliability and system survivability, microgrids can significantly contribute to achieving carbon dioxide emission reduction targets as part of addressing climate change. This is because of the possibilities they open for the optimal integration of distributed energy sources (DER) and small and medium-sized production systems that can provide heating/cooling services in addition to electricity, thereby improving the efficiency of energy conversion to desired energy services and reducing demand for electricity.

The benefits of microgrids differ in different cases. The behavior of a kibbutz population is not the same as the behavior of a university campus. An evaluation was presented of five different types of microgrid: a hospital, a kibbutz or a rural collective farm, a large industrial zone, a large residential neighborhood and a university.



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