

Netherlands peak shaving

DC users such as office applications, lighting, and so on are connected to the smart DC microgrid that is directly connected to solar panels on the premise for DC energy generation.

As a demonstration and research and development project on sustainability and renewable energy, a demo grid is being realised on the premise of Eaton in the Netherlands. We develop and supply a 700V DC grid at Eaton's hub in Hengelo, including:

With peak shaving you avoid peaks in energy consumption that are inefficient, unnecessary and costly. Fluctuating energy demand is strenuous for energy assets such as generators and grid connections. Our batteries cap these peaks, resulting in significant savings.

Our batteries cap the peaks of energy demand allowing smaller generators or a smaller grid connection to deliver the baseload. This can result in significant cost savings.

Smaller setups mean less money spent, reduced emissions, less noise and reduced local air pollution. On top of this, when traditional energy assets fail, our batteries can provide a reliable backup power source.

Our batteries allow grid connections (from 50 to 400 amp, 3 phase) to become valuable energy assets. The grid is used to keep the battery charged, while the battery delivers additional energy during peak times.

The storage capacity of our batteries helps generators run optimally, regardless of temporary peaks in energy demand. This can reduce the running hours of diesel generators by up to 85% significantly lowering noise and local air pollution. But most significantly, our batteries can help you save up to 60% in fuel.

Our batteries bridge this discrepancy between production and demand by storing excess renewable energy and releasing it when needed. Our batteries are the perfect solution for the problem of intermittent supply for those who rely on renewable energy entirely.

The Policy Learning Platform consists of a team of Thematic Experts supporting practitioners and policymakers across Europe. [More about the experts](#) [Discover the Platform](#)



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