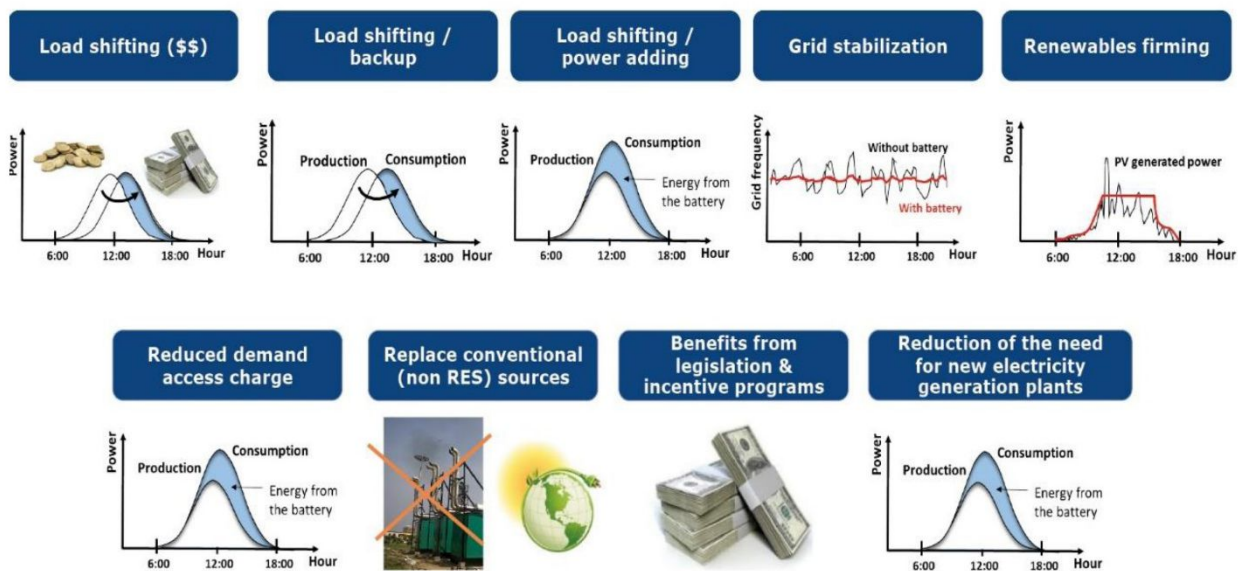


Battery Storage

Battery storage technology is set to revolutionise the electricity market and is transforming the way we use the grid. There is currently over 25MW of battery storage capacity deployed across the UK, which includes stand-alone projects as well as both domestic and small-scale commercial installations.

BENEFITS OF BATTERY STORAGE

(Source: Energy Management for Smart Grid, Cities and Building: Opportunities for Battery Electricity Storage Solutions Report, Yole Développement, May 2015)



Although using a battery as an energy storage solution is decades old, new battery technologies are still maturing and costs are decreasing significantly, speeding up the development and deployment of existing and new technologies and applications. Rechargeable batteries are particularly suitable for distributed energy storage. The growing electric vehicle/hybrid electric vehicle (EV/HEV) market is a game changer, further driving battery performance improvements.

The modular characteristic of battery systems means their size and features can be optimized for very different requirements in a multitude of applications. In particular, their fast demand response capability widens the scope of services (frequency regulation, etc.) that could be provided by batteries, compared to other energy storage technologies. Different battery technologies are commercially available, safe, proven, and used in daily life.

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