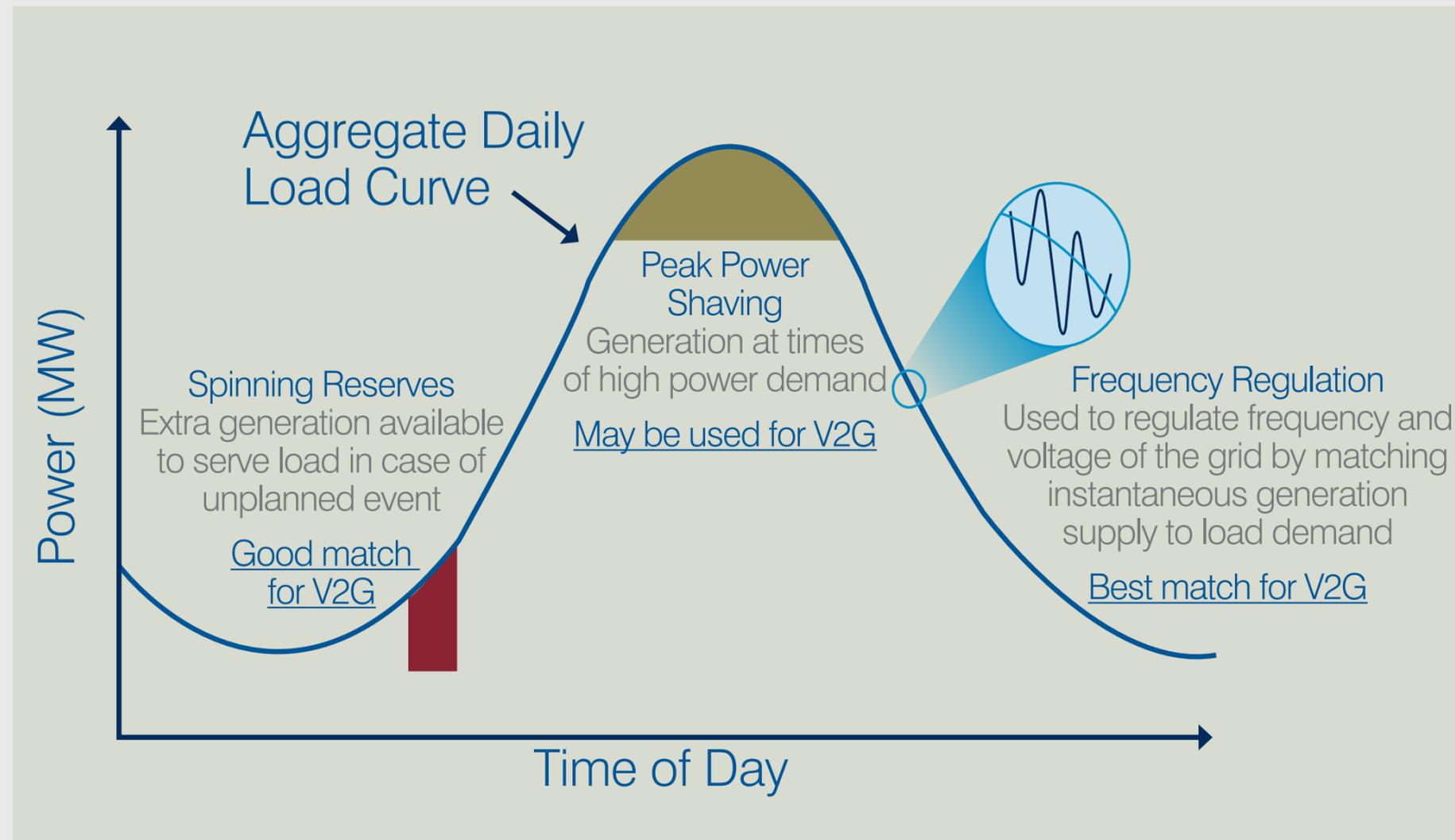


# What benefits will the DoD obtain from future large-scale V2G implementation?



## Cuts Installation Electricity Costs

- Earns energy revenue to offset installation utility expenses
- Increases penetration of energy storage systems
- Encourages use of lower cost, off-peak electricity

## Increases Resiliency & Reliability

- Overcomes natural disasters and intentional threats with on-site power support
- Serves as backup power to mission critical facilities during outages

## Aids Energy System Stabilization

- Reduces failure and degradation of system's electrical devices with bi-directional power flow
- Increases power distribution efficiency with on-demand reserve supplies
- Supports ancillary services market that provides grid operators with real-time adjustment capabilities
- Cuts electrical generation operational costs

## Provides a Positive Environmental Impact

- Promotes use of renewable energy
- Supports the national goal of reducing fossil fuel and energy consumption
- Reduces dependence on foreign energy sources
- Reduces greenhouse gas emissions

Frequency regulation is a continuous adjustment of power generation or electrical demand to maintain the grid frequency at or near the nominal 60 hertz standard.



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