



# LG Energy Solution Prime+ AC-Coupled Storage: Powering Industrial Efficiency in Middle East

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## Why Middle East Industries Need Smart Energy Management

Imagine running a steel plant in Dubai where afternoon temperatures hit 45°C. Your electricity bill suddenly spikes like mercury in a desert thermometer - that's peak demand pricing in action. LG Energy Solution's Prime+ AC-Coupled Storage system acts like a financial heat shield, potentially cutting energy costs by 30-40% through intelligent peak shaving.

## The AC-Coupled Advantage

Seamless integration with existing solar arrays

Bidirectional power conversion efficiency exceeding 98%

Modular design scales from 500kWh to 20MWh configurations

## Case Study: Cement Factory Implementation

A Saudi Arabian cement producer reduced peak demand charges by 37% after installing 8MW/32MWh Prime+ system. The installation paid for itself in 2.8 years - faster than drying concrete in Riyadh summer. Their secret sauce? Time-shifting solar energy captured during off-peak hours to cover production spikes.

## Technical Breakdown

Cycle life: 8,000 cycles at 90% depth of discharge

Response time:

Web: <https://munhlatechnologies.co.za>