

FIVE WAYS TO OPTIMIZE RENEWABLE ENERGY ASSETS



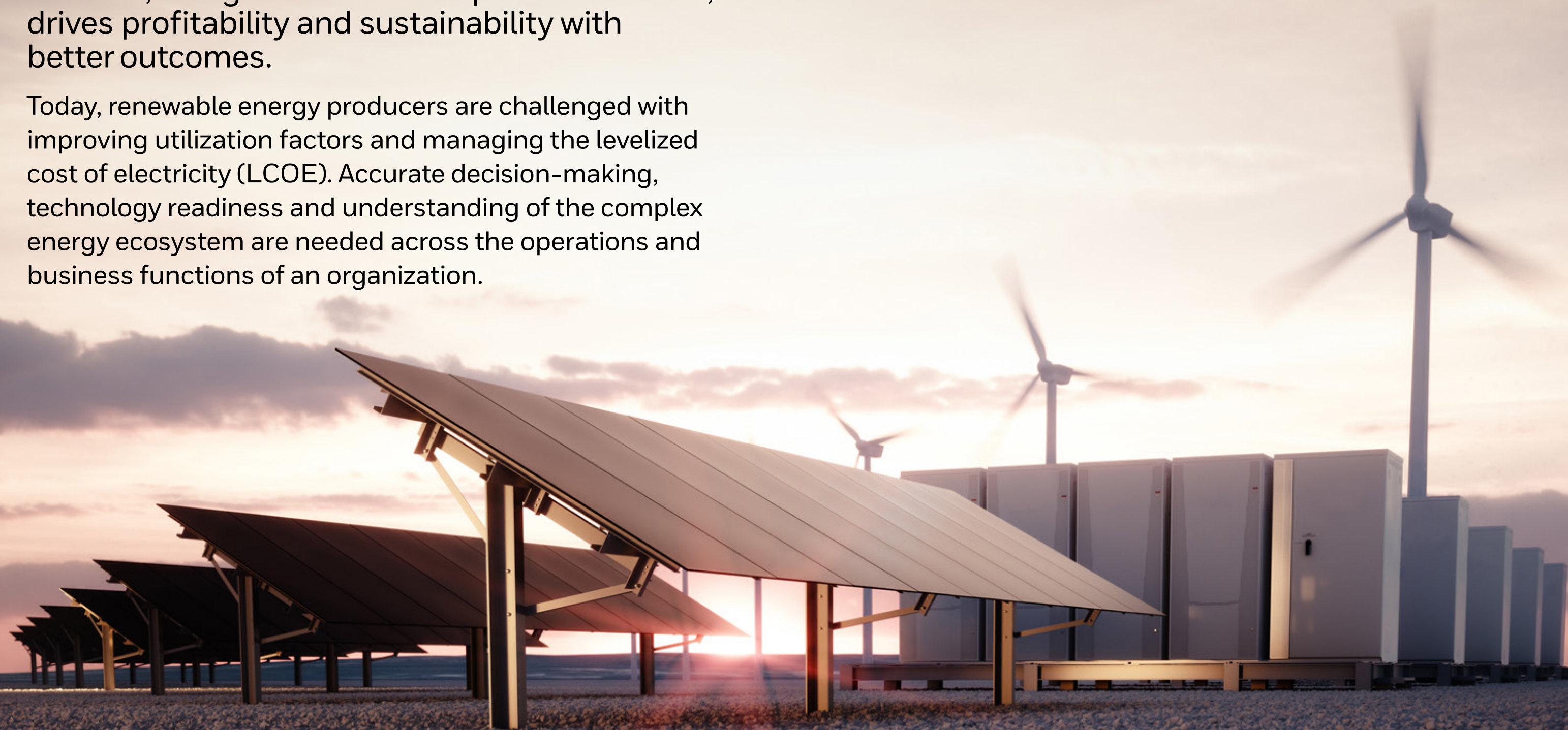
Honeywell

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An integrated energy storage and management solution, along with a remote operations center, drives profitability and sustainability with better outcomes.

Today, renewable energy producers are challenged with improving utilization factors and managing the levelized cost of electricity (LCOE). Accurate decision-making, technology readiness and understanding of the complex energy ecosystem are needed across the operations and business functions of an organization.



ENERGY STORAGE OUTLOOK.

There's no question renewable energy is reshaping the electricity value chain. A majority of power investments will be in this sector during the coming years. Renewables will account for more than 70% of global electricity generation growth by 2023.

- Global population is growing more conscious about using clean energy
- Countries and states are mandating renewable energy production
- Higher adoption rates in emerging economies
- Renewable energy procurement by all consumers – commercial, industrial and residential



LATEST INDUSTRY TRENDS.

The renewable energy industry must optimize its performance from “source to socket.” There is a need for closer two-way interaction between power generators and commercial & industrial (C&I) users. The entire energy value chain is now undergoing digital transformation.

- High renewable energy penetration in grids worldwide.
- Renewable energy expected to reach grid parity globally in near future.
- Capital costs have significantly declined, underlining the need of improved focus on operating costs.



CRUCIAL OPERATING CONCERNS.

The electrical grid is now more distributed than ever. Power producers are faced with challenges related to grid complexity and regulations while improving utilization factors and reducing production costs. Increasingly, profitability depends on operational outcomes.

- Unfavorable grid conditions leading to curtailments
- Unpredictable OPEX costs
- Lack of quality data collection and insights



WHY PARTNER WITH HONEYWELL?

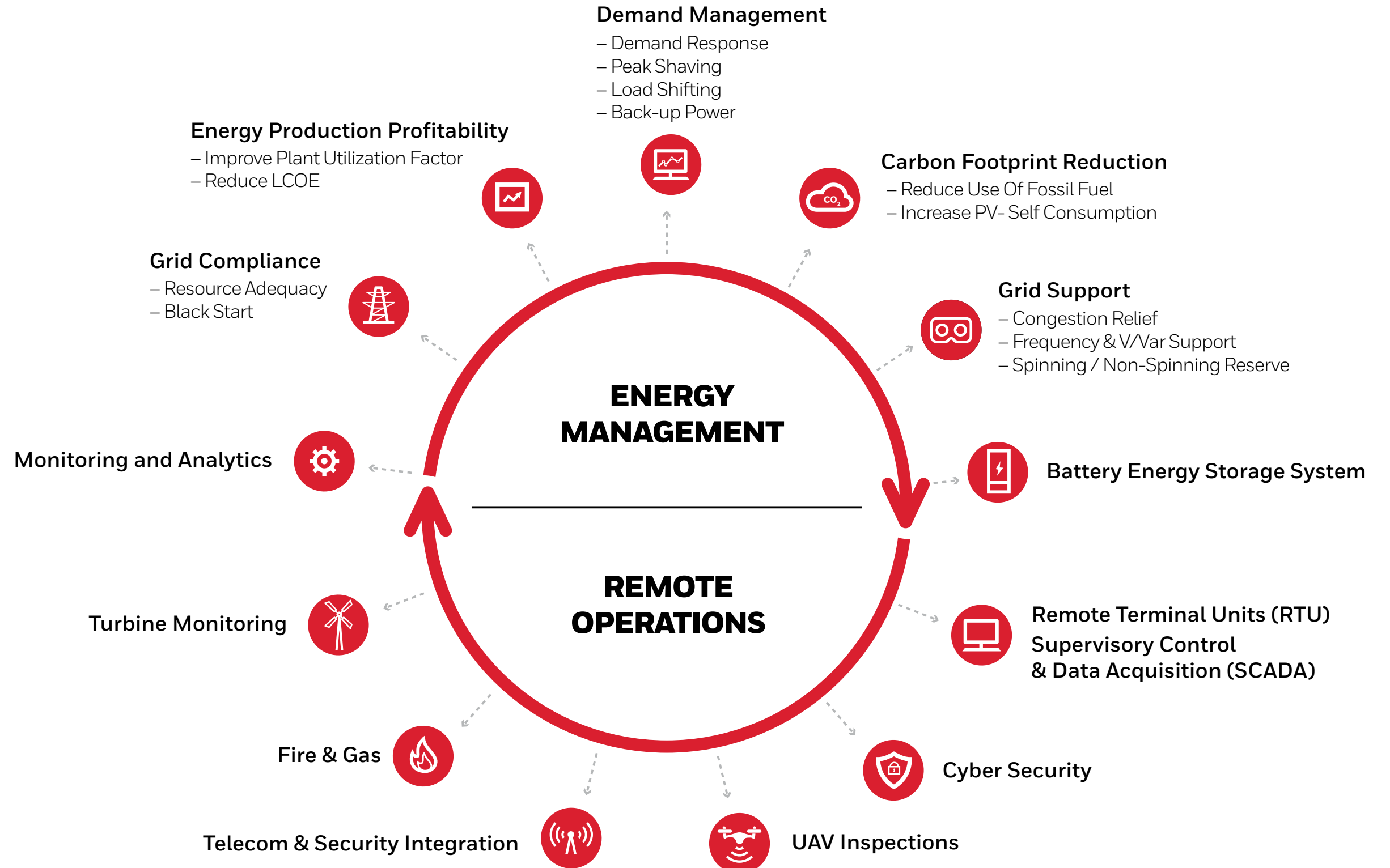
Leading renewable energy producers are partnering with Honeywell to improve their operational and business performance. Leveraging global resources, best-in-class technology and proven industry experience, our integrated operations platform and energy storage solutions makes it easier to anticipate market needs and manage energy generation.

- Improve fleet utilization factor
- Optimize LCOE and enterprise-wide operating costs
- Participate in diverse revenue streams
- Improve visibility into financial and operational performance



WHAT WE OFFER THE INDUSTRY.

Honeywell offers a full suite of products tailored to the distributed energy value chain. Our scalable and evolutionary technology allows us to provide outcome-based performance guarantees.



OUTCOME-BASED APPROACH.

Honeywell has pioneered advances in remote operations, energy management and energy storage that enable fleet management to generate increased productivity and revenue. We offer outcome-based solutions for remote operations of distributed energy resources.

- Connect and automate the enterprise
- Normalize data collection and display
- Enable operator effectiveness
- Reduce operations and maintenance (O&M) costs
- Enhance solar/wind + energy storage fleet management
- Improve overall production efficacy



HOW OUR SOLUTIONS HELP.

Honeywell is committed to optimizing the operation and maintenance of our customers' renewable and distributed energy resources. Our new Experion[®] Energy Center can do remote asset monitoring, energy resource management and supervisory control in a single, integrated platform. This holistic solution eliminates the need to establish your own remote operations center, and can benefit your business in numerous ways.



GREATER EFFICIENCY

The Experion Energy Center (EEC) is specifically designed for today's complex energy ecosystem. Employing robust cloud SCADA technology, this solution incorporates advanced analytic, monitoring and operational capabilities to help make solar, wind, energy storage, and other renewable operations more efficient and sustainable.



IMPROVED PERFORMANCE

Honeywell's EEC employs artificial intelligence-based market analytics, prediction and value stacking algorithms to increase and diversify the revenue streams, along with turnkey Battery Energy Storage Solution (BESS) to improve plant utilization.



BETTER DECISIONS

Honeywell's approach to remote operations empowers better decision-making at all levels of your organization. Unlike disparate point solutions, we deliver dashboards enabling effective visualization of operating and business performance data to each user role, with a focused view as per their geography, function and other relevant parameters.



ENHANCED SECURITY

Advanced control technologies from Honeywell enable robust network and physical security, as well as enhanced cyber security protection. This, in turn, assures your distributed energy resources are reliable and have the highest level of availability



INCREASED PROFITS

Honeywell's outcome-based solutions can significantly impact your bottom line. We provide contractual guarantees on agreed upon key performance indicators (KPIs) such as uptime, availability, safety, and compliance catered to your custom business needs. The result is increased asset profitability and improved business results.

**THE
FUTURE
IS
WHAT
WE
MAKE IT.**



As a global automation leader, Honeywell can help you plan your technology roadmap and stay current with the latest solutions. Furthermore, our turnkey project capabilities deliver the successful outcomes you need.

To learn more about Experion Energy Center, visit <https://hwall.co/energy-storage-solutions> or contact the Honeywell account manager in your country/region.