Case Study

Power that keeps up with a hospital

Honeywell Technologies helps Justice Health NSW connect solar, EV charging and building controls to improve energy performance



Honeywell Technologies



Case Study

Justice Health and Forensic Mental Health Network (Justice Health NSW) is advancing its net-zero program through rooftop solar and EV charging, supported by a $564,000 NSW Government investment. Its stated goal is to reduce emissions, gradually introduce EVs into the fleet and support a modern, low-carbon, low-waste and climate-resilient health system aligned with the NSW Health Net Zero Roadmap.

Reliable power matters just as much as sustainability. Rising grid reliance, peak demand changes and fleet electrification were adding new cost and resilience pressures. Honeywell Technologies developed a value-engineered approach designed to address the site's identified requirements while creating a pathway to more on-site renewable energy generation.

"Through this work we can create an environmentally sustainable healthcare service for the future."

—Justice Health NSW Chief Executive Wendy Hoey PSM

Modeled reduction in grid dependence
Potential identified through future possible expansion up to 600 kWp

Modeled reduction in annual energy expenditure
Modeled potential from future expansion

The challenge

Justice Health NSW wanted to move its energy transition forward while delivering measurable cost savings, reducing carbon emissions and strengthening operational resilience. At Malabar, that meant:

- Reducing energy costs and exposure to peak demand charges through better energy management
- Increase energy independence by using on-site solar generation to offset facility load and reduce grid consumption during peak production
- Support fleet electrification with four 22kW AC chargers and one 25 kW DC fast charger, aligned with the site's wider energy strategy
- Give teams near real-time visibility into solar generation, energy consumption, peak-demand profiles and asset performance
- Establish a renewable energy roadmap that begins with a 100 kWp solar installation and supports future expansion toward a 600 kWp solar PV system covering all available roof spaces

The solution

Honeywell Technologies brought together the site's 100 kWp solar PV system, EV charging infrastructure, building management system (BMS), Honeywell Technologies Forge and Chargefox in one connected system.

Coordinating EV charging with peak solar generation and building demand was designed to help the site use more on-site solar energy, reduce grid reliance and gain a clearer view of energy performance.

The 100 kWp solar installation includes 206 monofacial Jinko panels rated at 500 W each and a 110 kW Sungrow inverter. Honeywell Forge pulls in performance data from the system, so the client can see near real-time information on asset health, energy production and demand profiles. That gives them a much more complete understanding of site performance than utility bills alone.

The result is a connected foundation that can support further on-site solar expansion and future site energy emissions reduction initiatives.



Representative stock image. Image does not depict the actual project site.

The result

The project is designed to support emissions reduction by increasing on-site solar generation, reducing reliance on grid electricity and supporting the transition to electric vehicle transport.

The April 2026 performance data at Malabar showed a 14.2% solar contribution and 14.8% energy cost savings, with impact tracked across energy consumption and operating expenditure.[1]

Other outcomes and opportunities include:

A path to less grid reliance
Honeywell Technologies developed a renewable energy roadmap that modeled potential reductions in grid dependence through a proposed expansion to a 600 kWp solar deployment.[2]

Potential for further cost reduction
Modeling identified potential reductions in annual energy expenditure from the proposed expansion.[3]

EV charging aligned with solar generation
Integrated charging and load management help align charging demand with on-site renewable generation, increasing the use of solar power generated at the site while limiting peak-demand impacts.

Room for future expansion

The connected system brings together solar PV, the BMS, Honeywell Technologies Forge and EV charging, with a possible pathway to incorporate battery energy storage in the future.

14.8%

Average energy cost savings.
Verified April 2026 performance

14.2%

Average solar contribution.
Verified April 2026 performance

100 kWp

Solar installation. 206 panels supporting on-site renewable generation

Contact Honeywell Technologies to discuss your energy goals and explore a path toward lower costs, electrification and future renewable expansion.

1. These site-specific results may not be representative of other facilities or operating periods.
2. Actual results would depend on site load, system design and operating conditions.
3. Actual results would depend on energy tariffs, site load, system design and operating conditions.

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