

Make distributed energy assets easier to design, connect and operate.

Proposal design, gateway-based device integration, AI optimisation and post-install performance review — carried through one practical operating path.

ONE CONNECTED OPERATING PATH



DESIGN
Proposal & ROI



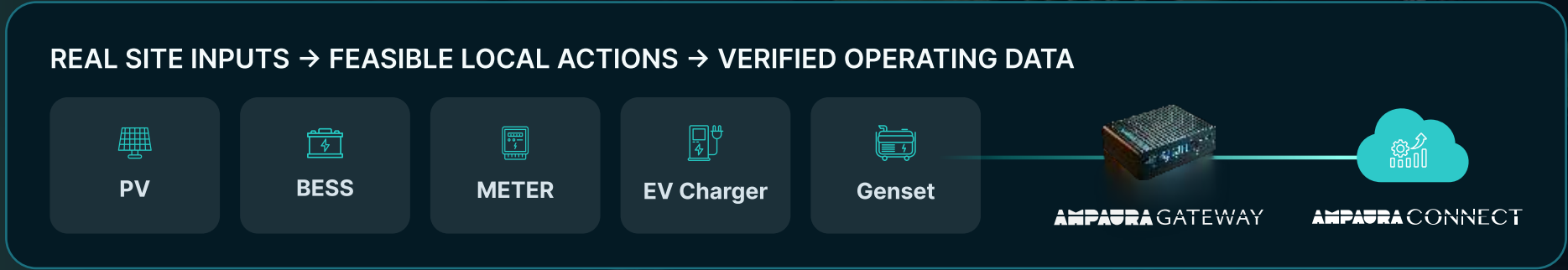
CONNECT
Gateway control



OPTIMISE
AI dispatch



PROVE
Measured value



A gateway-first energy operating system for mixed distributed assets.

Who We work With

The same gateway, data and optimisation foundation adapts to the operating and commercial needs of each customer group.



From Proposal design
to local execution,
fleet operations and
verified performance.

**ENERGY RETAILERS & VPPS**

Dependable site flexibility with verified telemetry for a jointly developed market pathway.

**C&I ASSET OWNERS & OPERATORS**

Optimise total cost, peak demand, solar use and resilience together.

**EPCS, DEVELOPERS & INTEGRATORS**

Carry the investment case into vendor-neutral commissioning and performance review.

**OEMS**

Extend one product into multi-brand, AC-coupled site coordination.

**NETWORKS & DNSPS**

Apply export and operating limits consistently at the edge.

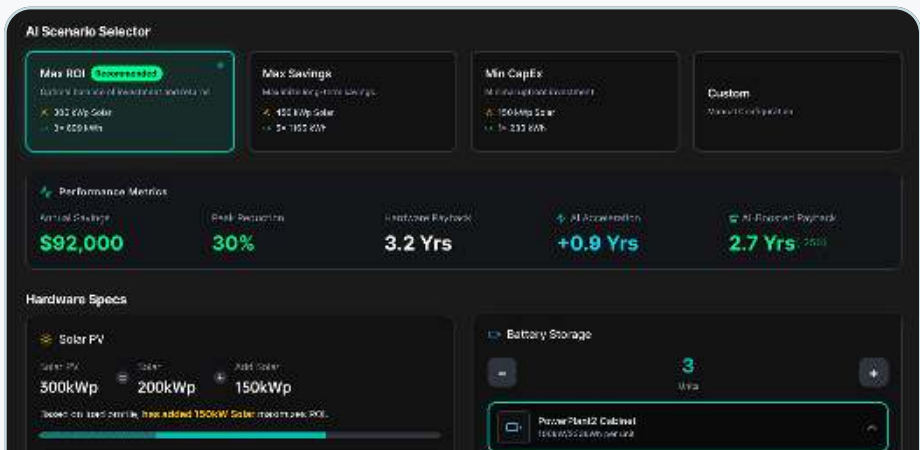


CSIP-AUS v1.2 / IEEE 2030.5
support for DOE use cases

Utility-scale project needs sit within retailer, VPP, EPC, developer and asset-owner workflows — not as a separate customer type.

From Proposal to verified value

The assumptions behind the investment case become the starting point for commissioning, optimisation and performance review.



DESIGN

AmpauraDesigner

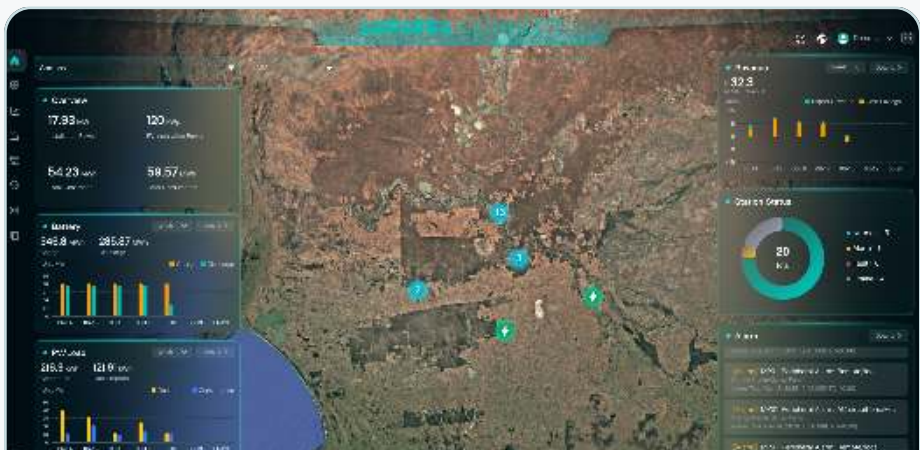
Bills, interval data and tariffs → system configuration, financial case and operating assumptions



CONNECT

AmpauraGateway

Meters, PV, BESS, EV Chargers, Genset, and loads → secure local data, validation and dependable control



OPERATE

AmpauraConnect

Live telemetry, forecasts and limits → schedules, device allocation, alarms and reporting



PROVE

Verified value

Proposal case + measured site data → explain exceptions and improve the strategy

COMMERCIAL CONTINUITY

Proposal assumptions stay visible, so measured operating results can be reviewed against the case that supported the investment decision.

End-to-end system architecture

AmpauraConnect EMS combines cloud fleet management, forecasting and multi-objective optimisation with gateway-based local control and verified telemetry.

External inputs Setpoints and constraints Telemetry, status and exceptions



Easy integration and setup

Use a proven profile when it exists. Add a new device through the same mapping, validation and release process.



AURA-IMC-500 SMART GATEWAY

Local integration and control, independent of an OEM cloud.

Normalises device data, validates commands locally and supports remote Ampaura firmware and configuration maintenance.

New OEM integration: ABOUT 2 WEEKS

STANDARD IoT AND DEVICE PROTOCOL LIBRARY

MODBUS TCP/RTU	CAN & SERIAL	IEC 101/104/61850
MQTT	OCPP 1.6/2.0	IEEE 2030.5

LIBRARY-SUPPORTED DEVICE

- 1

Select profile
- 2

Map site settings
- 3

Verify points
- 4

Commission and operate

NEW DEVICE TARGET

- 1

Protocol documents + test access
- 2

Map points and commands
- 3

Validate control and faults
- 4

Release to the library

HARDWARE & LOCAL CONTROL AT A GLANCE

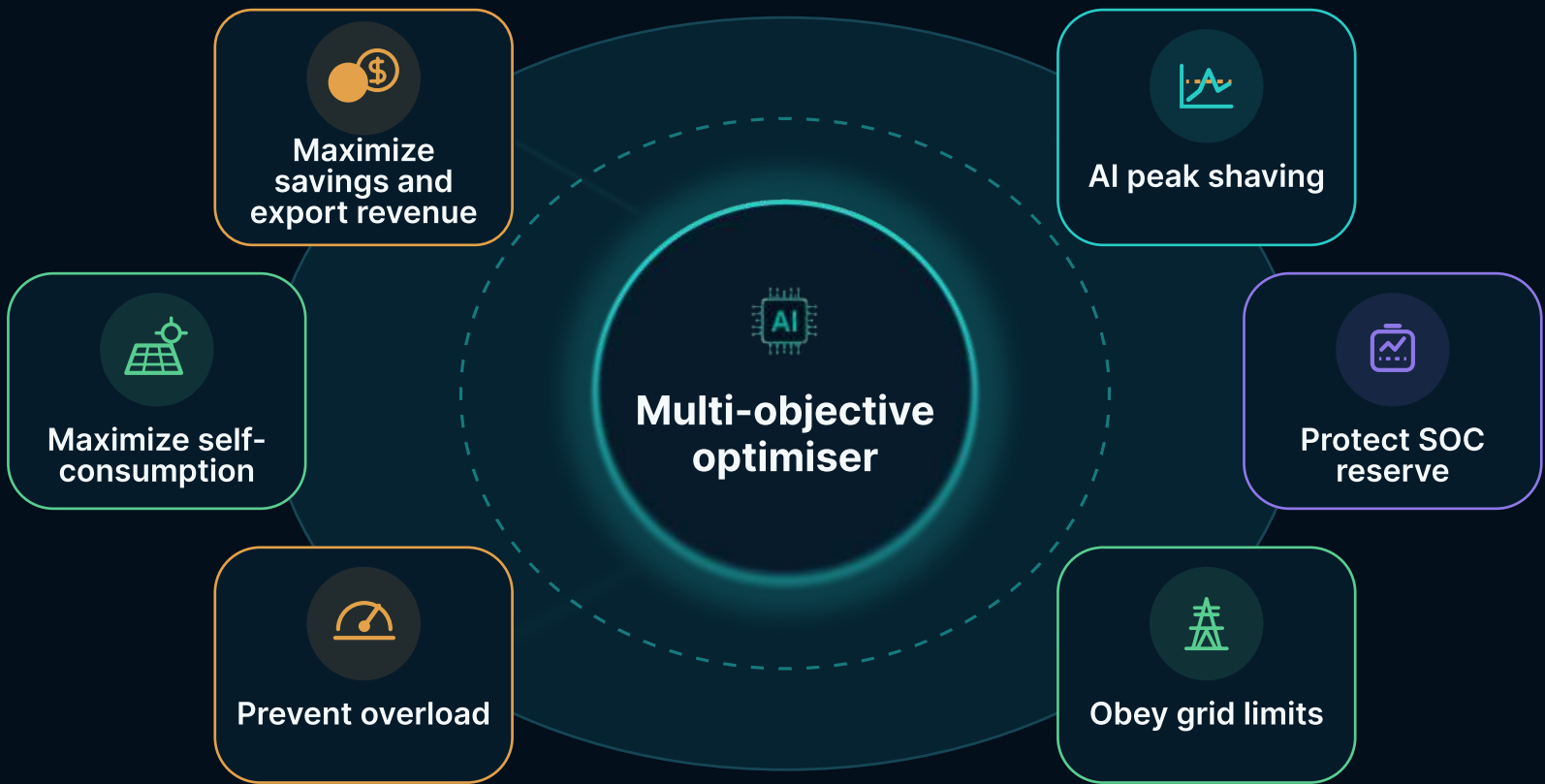
- 2× LAN · RS-485 • CAN · DI/DO
- USB/Serial · 9–36 VDC • Protocol translation
- Local validation & fallback • Remote config & firmware

SUPPORTED DEVICES

Timing assumes complete protocol documents, a sample or test environment and timely vendor support. Third-party PCS/BMS firmware is outside the standard service unless agreed.



Forecast → Decision-making → validate → re-optimize

CONTROL OUTPUTS

Power schedule
Charge/discharge site target

Dynamic reserve
SOC setpoint by forecast need

Device allocation
PV, BESS, EV, genset and load

Grid compliance
Export limits and exceptions

↓ SETPOINTS ↑ TELEMETRY

EDGE EXECUTION

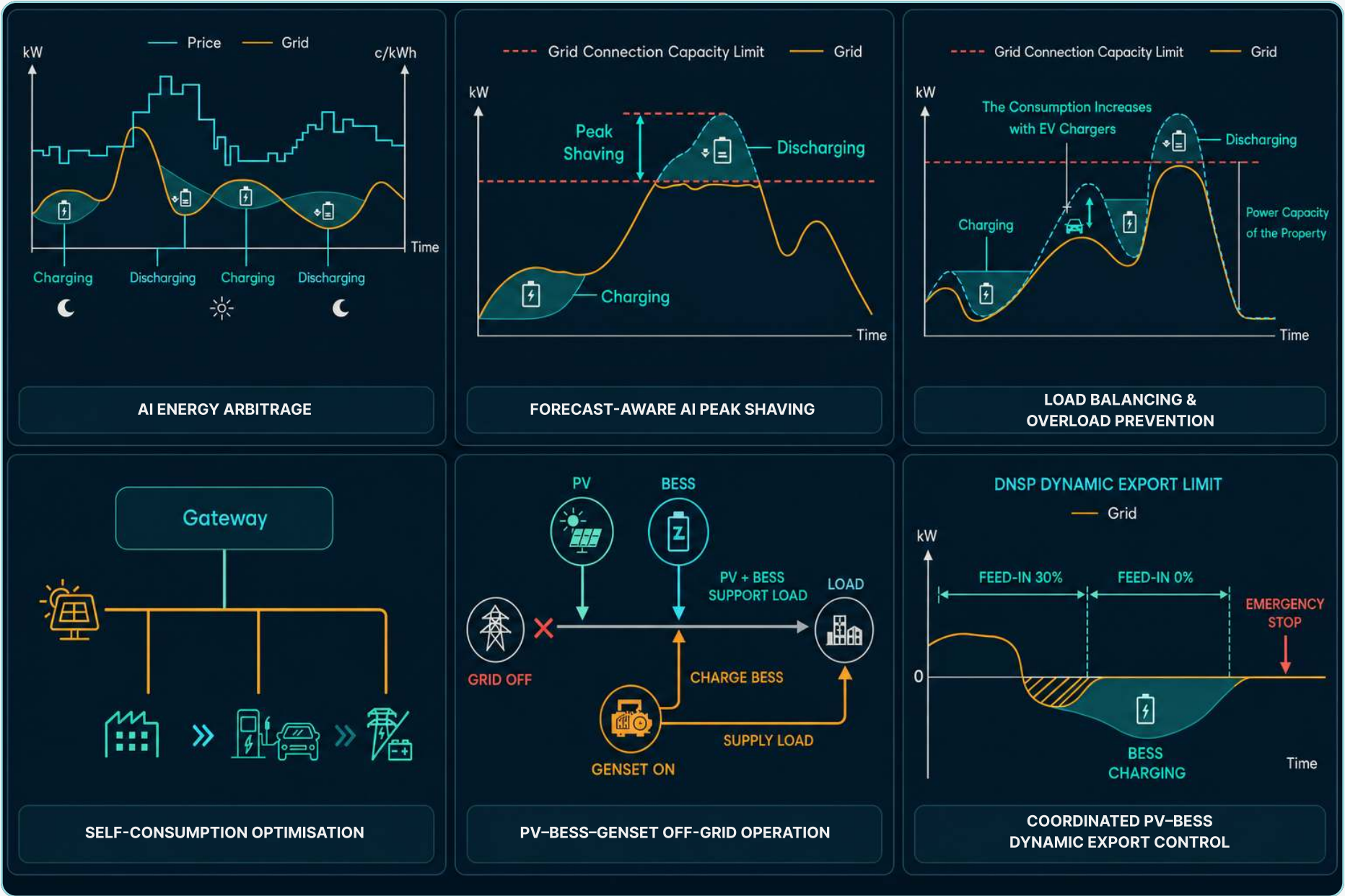


Cloud optimisation updates the plan. The gateway checks every command against local safety, device limits and offline fallback before execution.

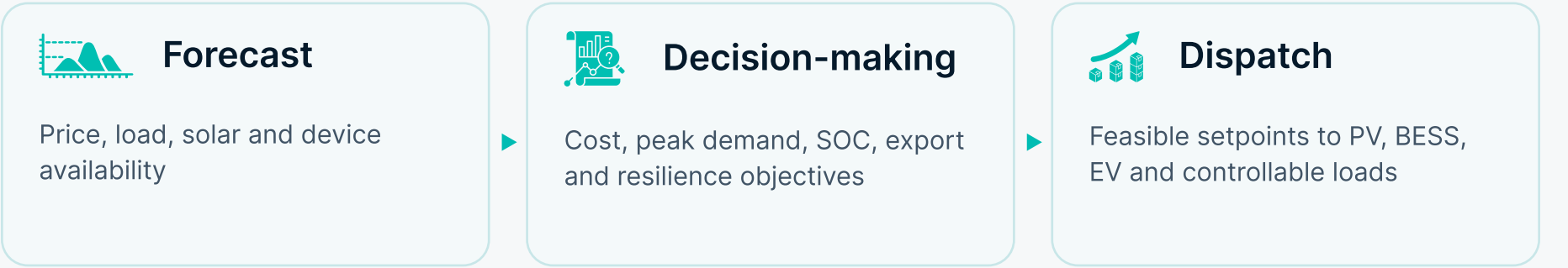
Intelligent AI strategies

Each model combines forecasts, site limits and equipment capability, then turns the result into feasible setpoints.

AI DISPATCH STRATEGIES



ONE OPTIMISER, THREE DECISION STEPS



BUILT INTO EVERY MODEL

AC-coupled and multi-device coordination — including PV, BESS, EV, flexible loads and gensets — are gateway capabilities applied across the relevant strategies.

Make every C&I project easier to sell, operate and verify

Ampaura carries the same operating assumptions from proposal into commissioning, live control and performance review.



FOR EPCs & INTEGRATORS
Win with a credible case

- 1 Model tariff, load and network constraints
- 2 Size PV and BESS against site objectives
- 3 Carry approved settings into commissioning
- 4 Reduce integration risk before handover



FOR OWNERS & SITE OPERATORS
Prove value on actual site data

- 1 Coordinate PV, BESS, EV and site loads
- 2 Run AI optimisation within operating limits
- 3 Track alarms, exceptions and device health
- 4 Compare measured results with the proposal

VALUE BY STAKEHOLDER

EPC & integrator · Faster delivery	Site operator · Lower cost	Site operator · More solar used
Owner · Protected operating limits	Owner · Planned resilience	Financier · Verifiable performance

Value depends on the site tariff, load profile, equipment capability, network limits and agreed operating objectives.

Open device integration with DNSP-specific grid readiness

AmpauraConnect combines vendor-neutral edge control with CSIP-AUS / IEEE 2030.5 capability. In Australia, deployment readiness is confirmed network by network.

FOR OEMS

Control beyond one product

Connect the OEM product to meters, existing PV and other site assets. Add AC-coupled coordination and multi-device scheduling beyond a single controller.

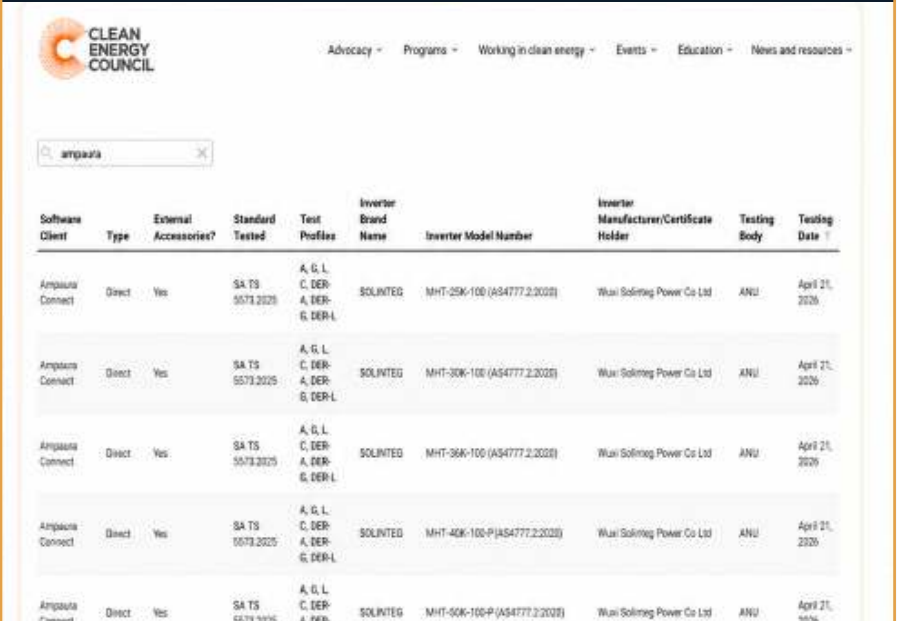


- Vendor-neutral device profiles
- AC-coupled retrofit control
- One normalised site model
- Remote Ampaura gateway maintenance

FOR NETWORKS & DNSPS

Compliance complete.
Deployment is DNSP-specific.

The Gateway has completed CSIP-AUS v1.2 compliance and NEPKI onboarding. This supports certificate management and DNSP integration, while networks need testing and migration.



- CSIP-AUS v1.2 compliance completed
- Coordinated setpoints across assets
- Telemetry and exception reporting
- Auditable operating behaviour

SHARED RESULT

Mixed equipment. Clear responsibility. Consistent edge control.

Compliance foundation complete. Confirm DNSP testing, certificate mapping and production migration before committing a site.

Site flexibility that can connect to an authorised market pathway

Ampaura provides forecasting, optimisation, gateway execution and verified telemetry. Formal market participation stays with an authorised retailer or VPP.

PARTNER-ENABLED MARKET PATH



AMPAURA TECHNICAL LAYER

Forecast, calculate, plan and verify.

- Market data processing
- Price and load forecasting
- Dispatch planning and flexibility
- Verified telemetry and exceptions

AMPAURA ROLE

Calculate feasible site and portfolio actions

- Forecasting and strategy calculation
- Gateway execution
- Telemetry, alarms and exceptions

AUTHORISED PARTNER ROLE

Own formal market access and responsibility

- Participant credentials and interfaces
- Formal submission, settlement and compliance
- Portfolio risk and customer responsibility

CURRENT PRODUCT BOUNDARY

Today, AEMO predispatch is not a standard production input for live spot-exposure control. Partner-built deployments can use Ampaura forecasting and dispatch calculations after joint integration and testing. The authorised retailer or VPP retains market access, submission, settlement and compliance responsibility.

AEMO PREDISPATCH · Not a standard production input today. Future partner use is for planning, not direct site control.

Start with one site. Prove the result. Scale with confidence.

Ampaura combines gateway integration, behind-the-meter AI and verified reporting in a controlled path from site selection to repeatable deployment.

A PRACTICAL STARTING PATH

DESIGN

Choose a representative site

Confirm tariff, interval data, asset mix, network limits and the operating objective.



CONNECT

Integrate through the gateway

Map devices, validate telemetry and control, then commission local fallback and safety limits.



OPTIMISE

Run agreed AI strategies

Operate within site constraints using forecast-aware schedules and multi-device coordination.



VERIFY

Compare measured results

Review savings, alarms, exceptions and performance against the agreed baseline.

PARTNER PATH, WHEN REQUIRED



Retailer, VPP and market workflows stay partner-led.

Ampaura can support forecasting, strategy calculation, gateway execution and verified telemetry. Formal market access, submissions, settlement and participant responsibility remain with the authorised partner.

AMPAURA
AUSTRALIA

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AMPAURA DESIGNER
AMPAURA CONNECT

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