

Smart Connect

National Coordination of CER Integration

CSIP-AUS Conference

October 2025

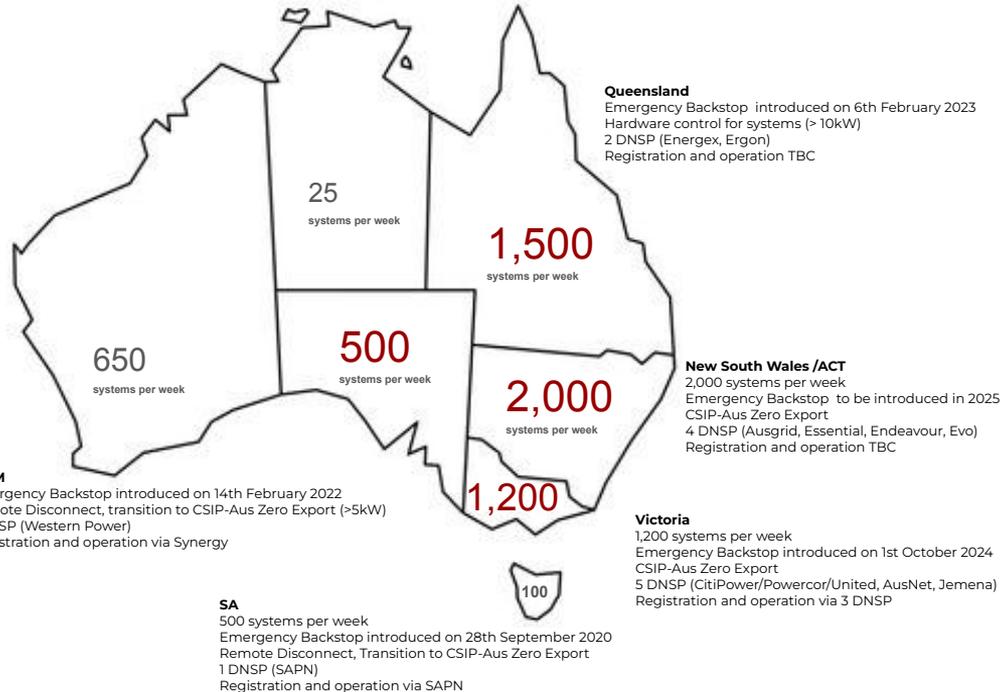
Version 1.0



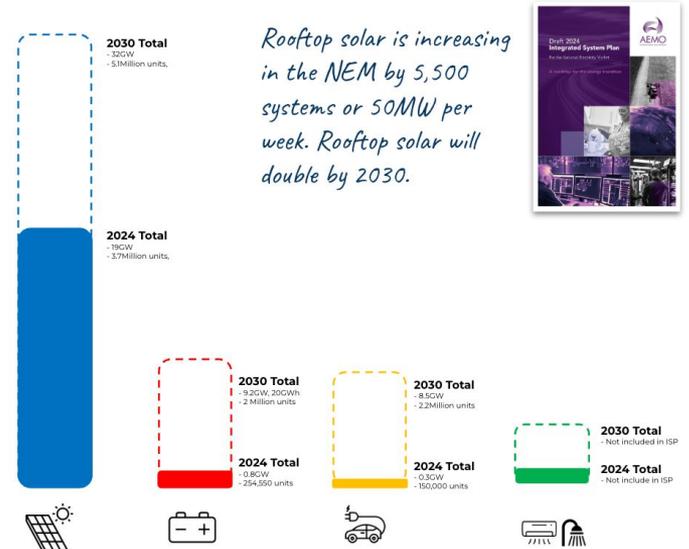
ARENA

The Challenge - Volume

> 4 Million existing systems > 6,000 systems per week
/ ~ 60MW

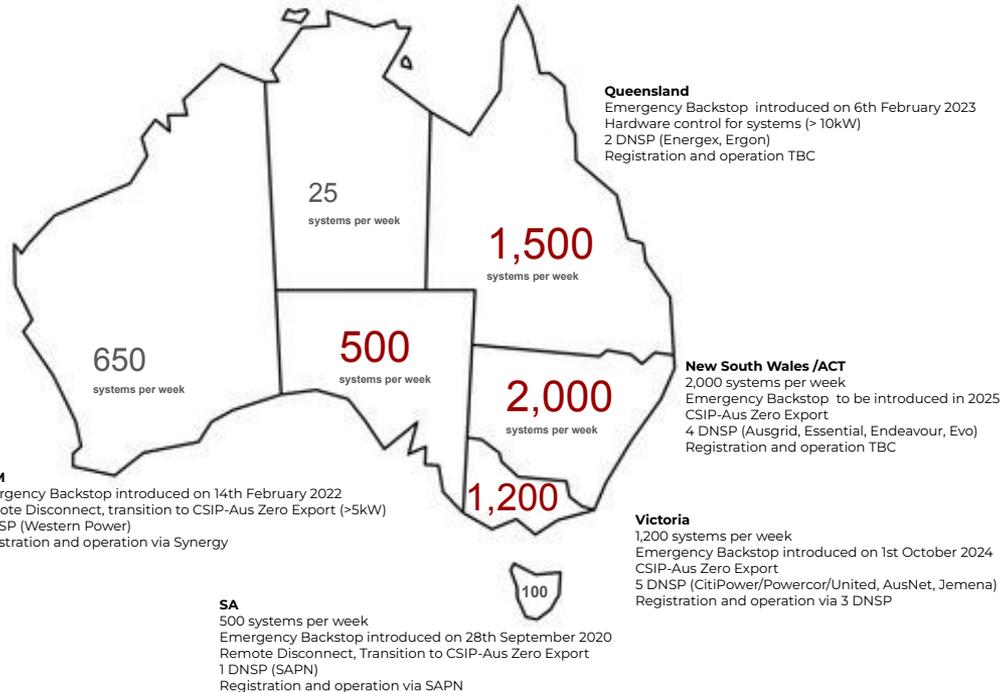


Rooftop PV will outstrip batteries, EV and Electrification to 2030



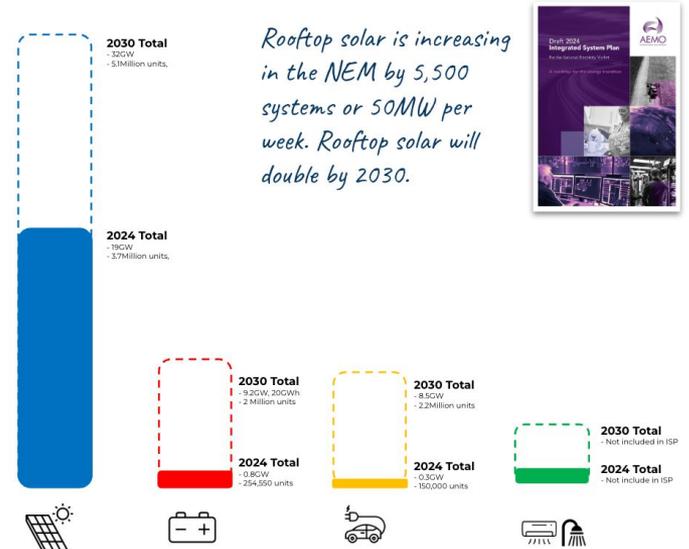
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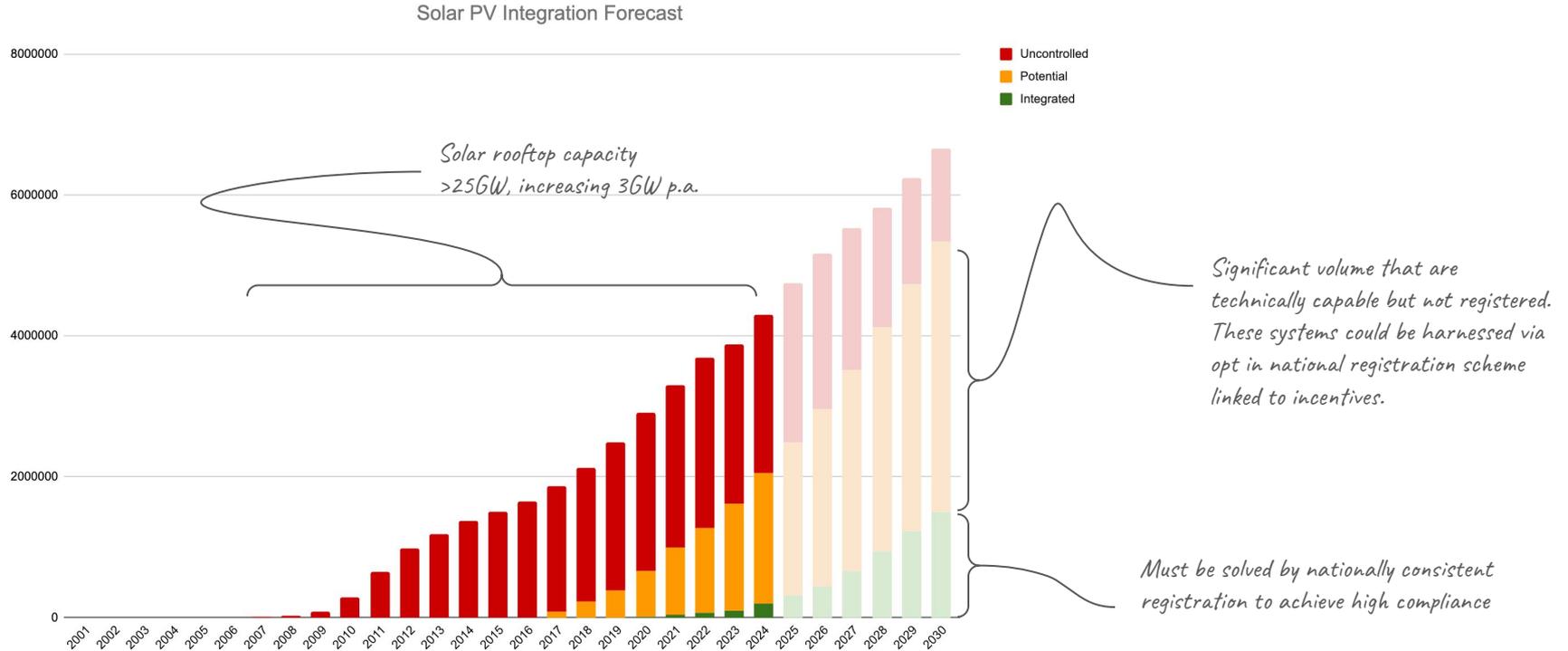
+ 5,000 batteries per week, since 1st July

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The Challenge

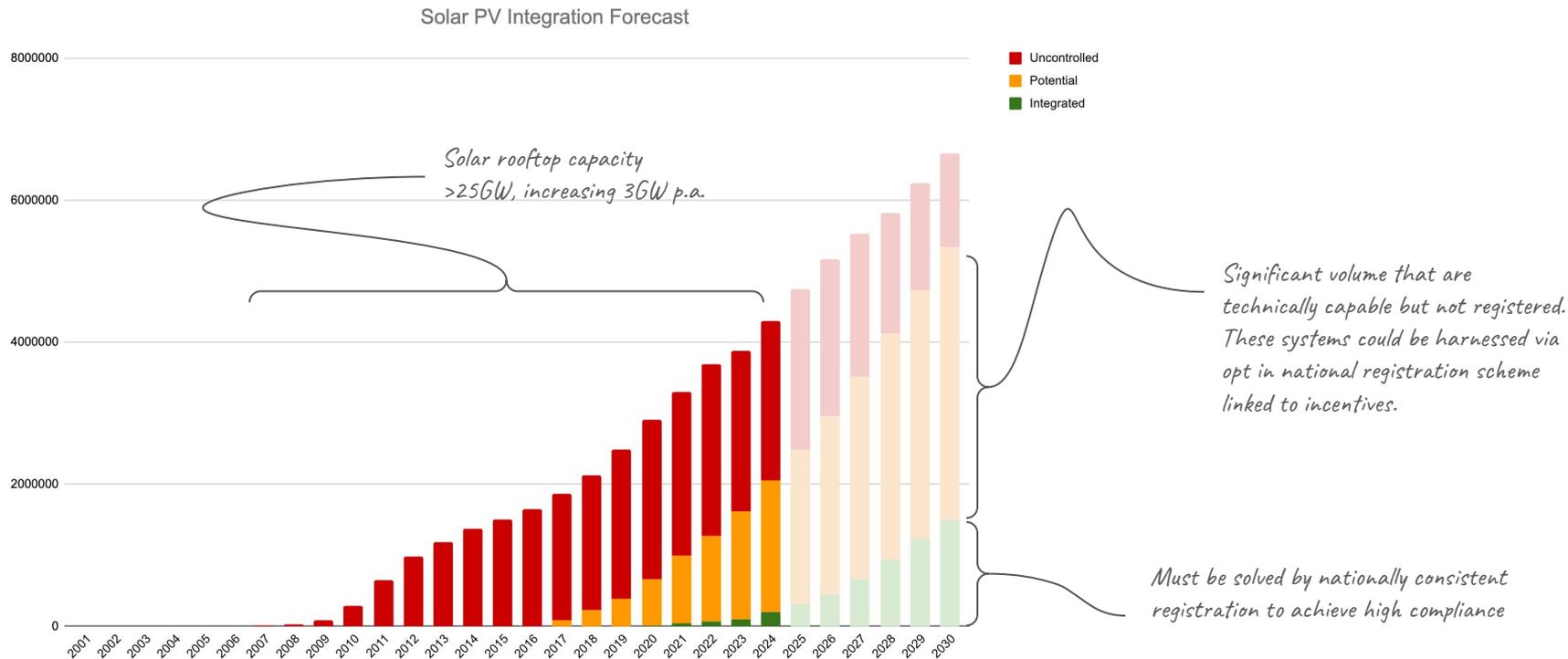
Operationalising at scale



The Challenge

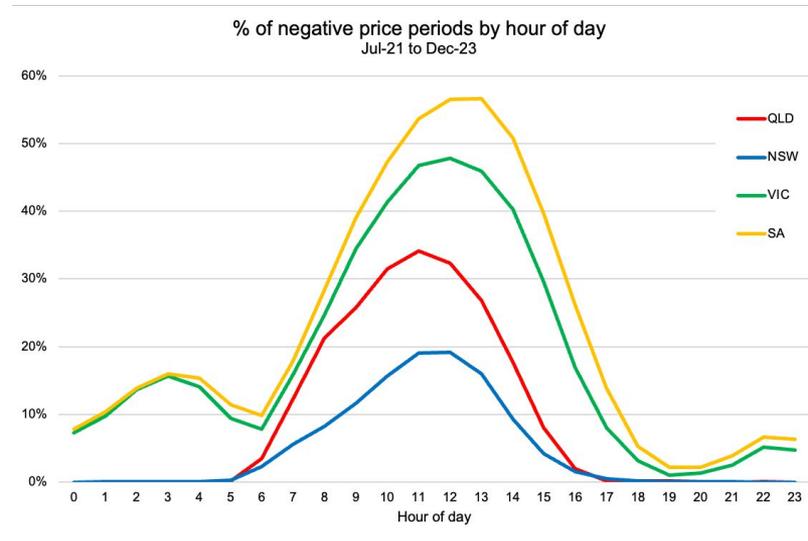
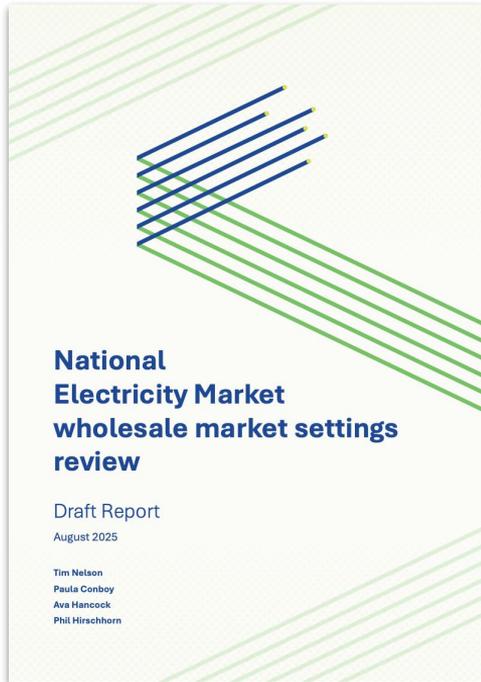
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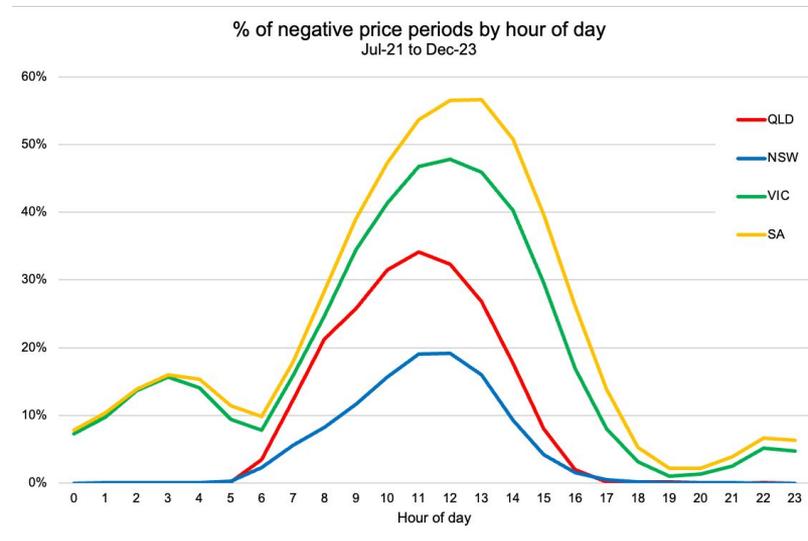
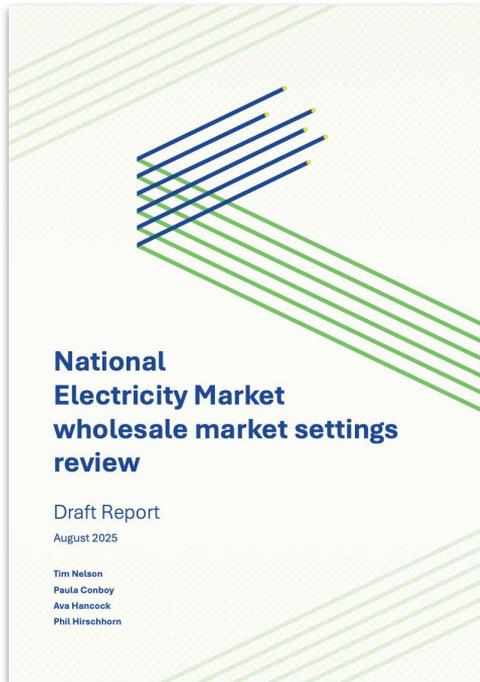
Market function



The Challenge

Market function

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Navigating Complexity

National coordination required to scale effectively



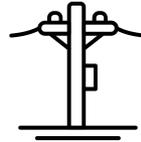
6,000+
systems per week



40+
500+ inverter models



1,000+
Active solar installation companies



15
Distribution networks



60+
Electricity retailers

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Electricity retailers

Partners & Stakeholders

Smart Connect Stakeholder Engagement

'Smart Connect' Working Group

- Delegated team to bring together critical stakeholders to deliver critical path Action Plan



Backstop
requirements/compliance
Links to DER Register, market
access



DNSP member coord & support
NEPK development



Retailer Member coord
Customer VPP
registration/operation



OEM member coord & support
Product Certification List



Australian
National
University

ISC Coordination
CSIP-AUS development & support

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Program & Policy Engagement

- Program Management for National Coordination



CE Working Group
Roadmap/Taskforce



DEIP
ISC/DERAPITWG



NSW Emergency Backstop
policy/regulations and
Installer Portal



ACT Emergency Backstop
policy/regulations



WA VPP Program incentives,
policy and requirements

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'Smart Connect' Coordination

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Mark Twidell, Chair

Bruce Thompson, Executive Director

Jack Terry, Technical Director

Smart Connect

National CER Integration

Objectives

There are three CER Integration objectives that were established and confirmed at the December 2024 CEO forum. These objectives drive the intent behind the Smart Connect initiative.

Consistent & Compatible

Compliant & Secure

Customer Enabling

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Smart Connect Industry Alignment Activities

Engagement and coordination activities across industry to drive a consistent operational approach within and across workstreams. Smart Connect has an immediate focus on NSW EBM and WA VPP implementation but also applies a broader lens to 'Next Phase Planning' to identify areas that the industry should focus to ensure operational consistency for CER integration including rapidly emerging function for Federal and State battery and VPP schemes.

Executive engagement & alignment

Critical workstream planning & support

National coordination & scaling

Industry communications & engagement

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Workstreams

The workstreams below are the key immediate technical building blocks that require standardised operational consistency for NSW EBM and WA VPP implementation, as well as part of a set of functional requirements to enable consistent national integration of CER. Activities and outputs in the workstreams are led and delivered in combination by industry organisations and representatives.

CSIP-AUS protocol
(led by ISC)

Authentication/ PKI
(led by ENA)

Connection workflow

Registries

Cyber Security

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Next Phase Planning

National CER Integration



Industry
Workpaper #1

Functional Requirements

Defines the high level functional requirements needed for consistent, secure, and scalable CER integration. These requirements will guide prioritisation of activities to uplift the CER ecosystem.

September



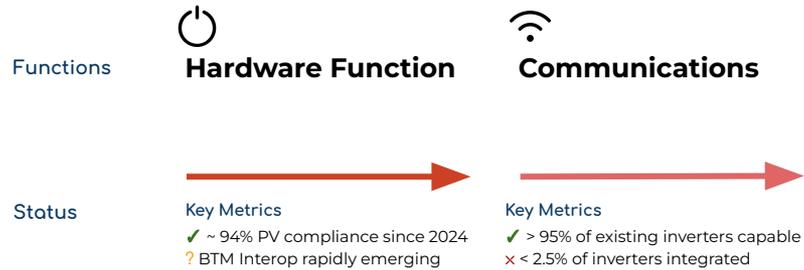
Functional Requirements

Summary of the key functions, status and gaps



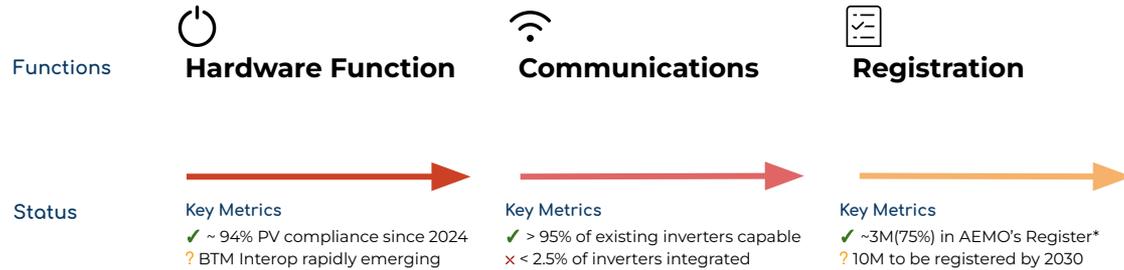
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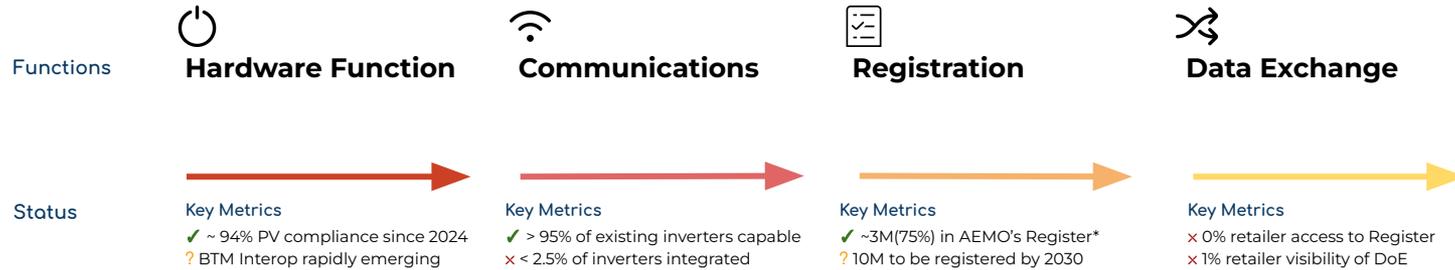
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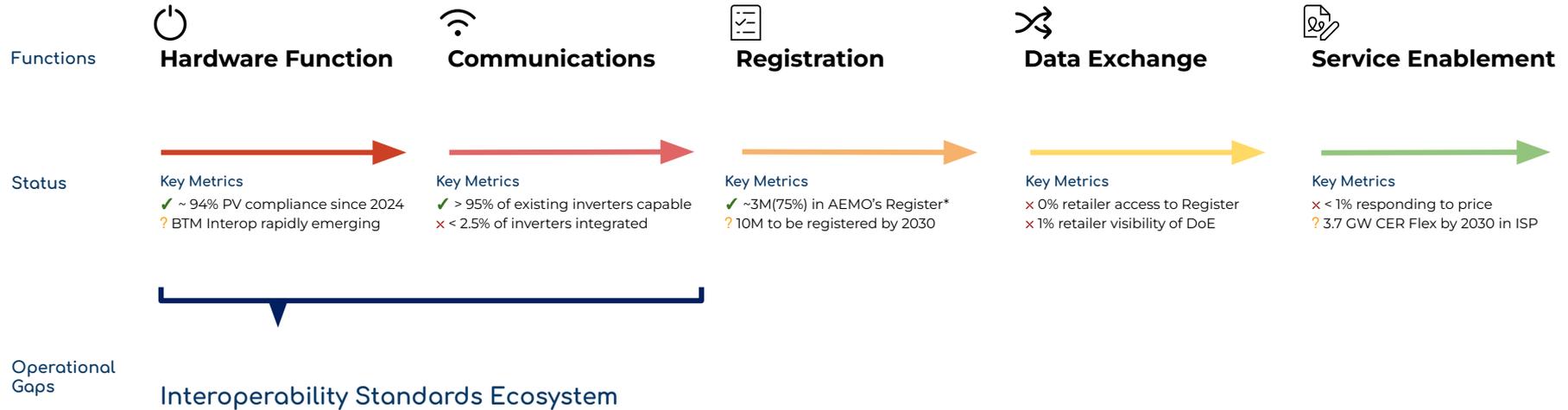
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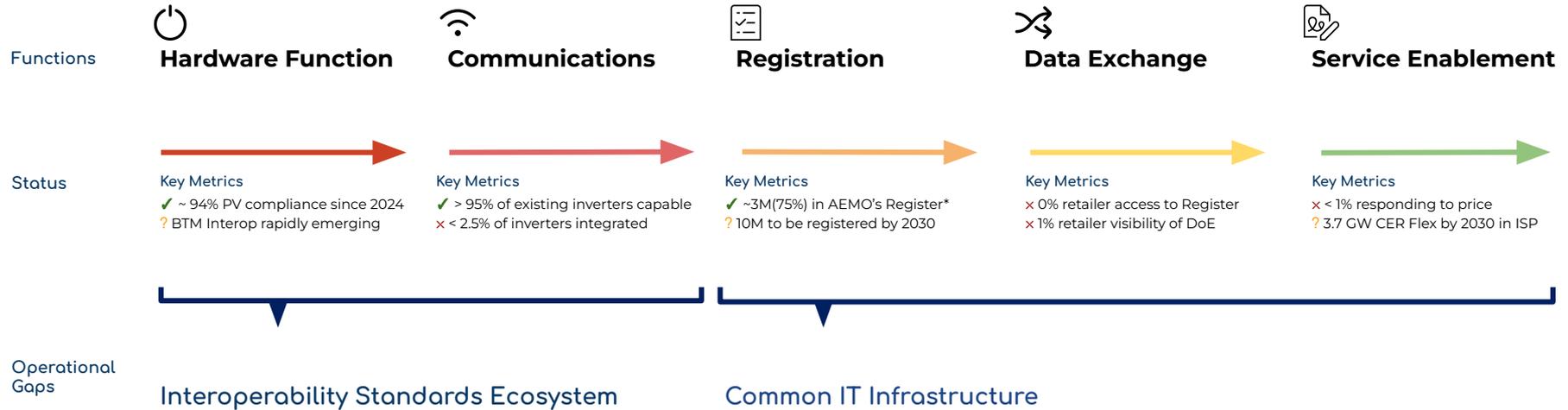
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Industry Workpaper #2 

Retail/Customer Interoperability

Document the principles, challenges, considerations and pathways to enabling critical customer and retailer outcomes.



Next Phase Planning

National CER Integration

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Industry Workpaper #3 

Delivery Plan

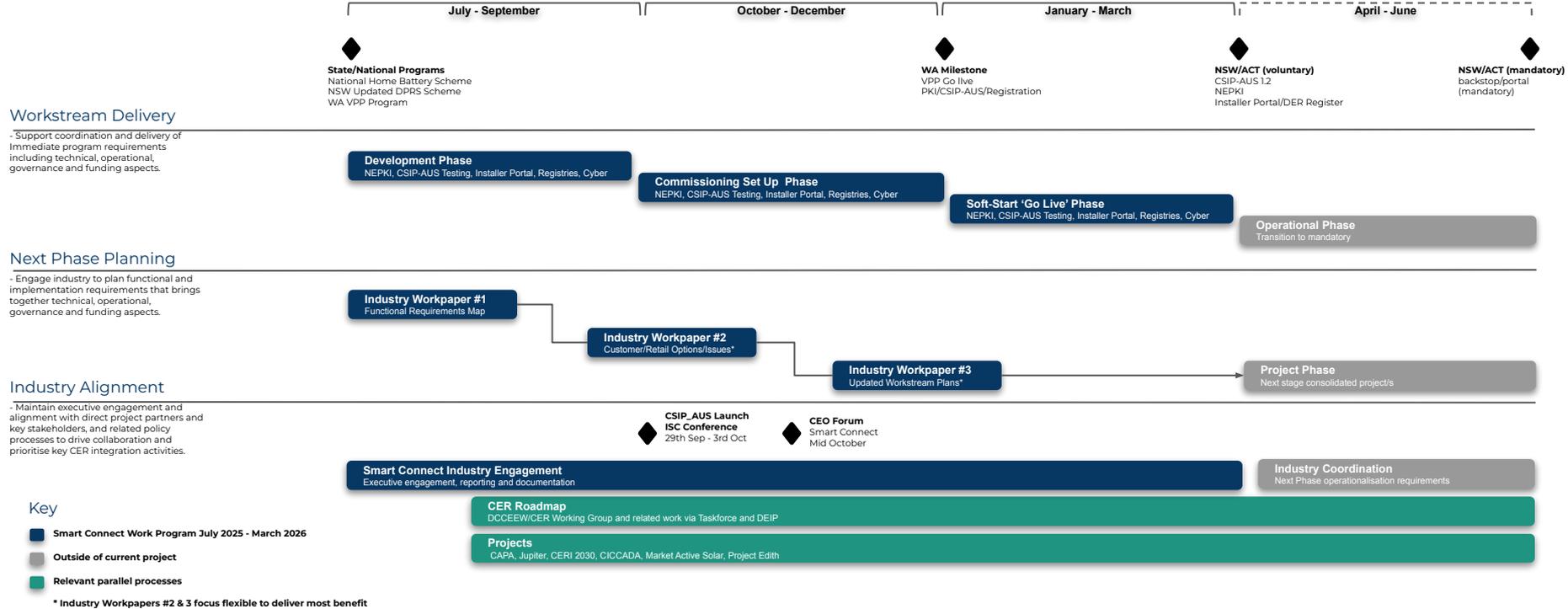
Integrated set of sequenced requirements for 2026/27 to ensure continuity and deliver consistent CER national integration platform that is compliant, secure and market enabling.

November



Activity Map

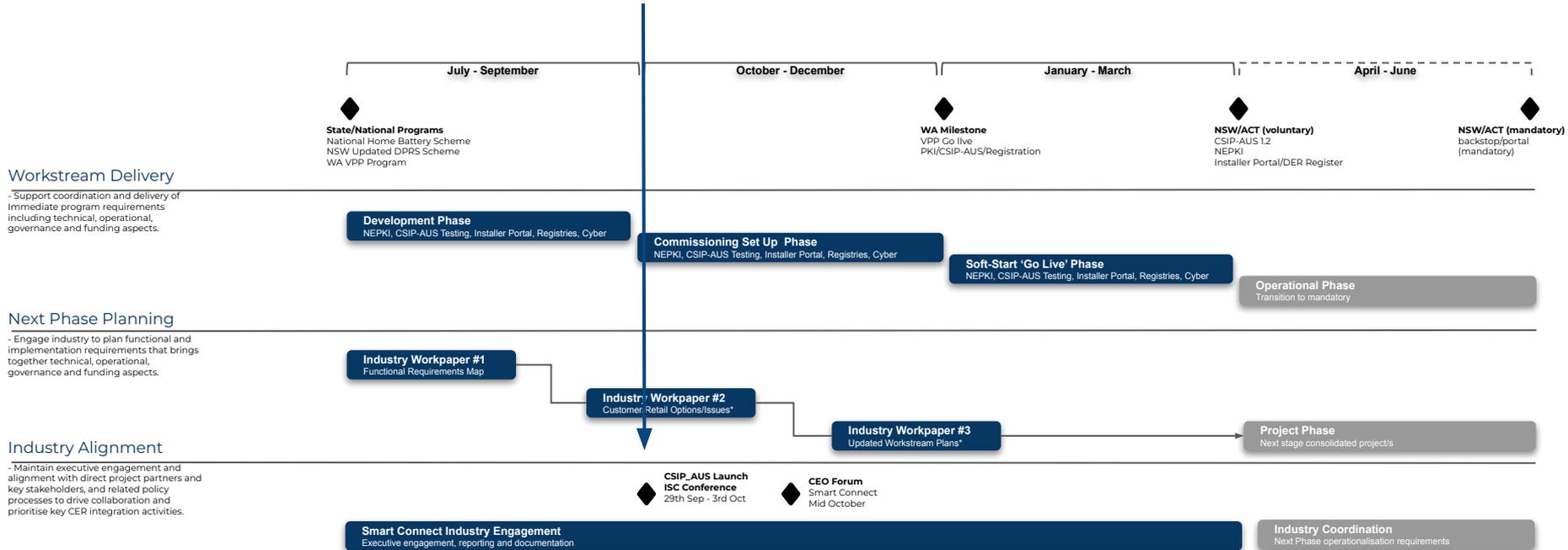
July 2025 - March 2026



Activity Map

We are here!

July 2025 - March 2026



Key

- Smart Connect Work Program July 2025 - March 2026
- Outside of current project
- Relevant parallel processes

* Industry Workpapers #2 & 3 focus flexible to deliver most benefit

CER Roadmap
DCCEEW/CER Working Group and related work via Taskforce and DEIP

Projects
CAPA, Jupiter, CER1 2030, CICCADA, Market Active Solar, Project Edith