



PHNXX

(RE)Evolutionizing Energy







Our mission is to provide rural industrial communities with affordable and sustainable energy.
We will abate at least **100 Mt** of carbon emissions within the next decade.



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About PHNXX

PHNXX (pronounced 'phoenix') is an Australian start-up dedicated to accelerating the transition to a carbon-neutral economy. Founded by a team of engineers and project managers, PHNXX focuses on helping rural and remote industrial communities decarbonize through smart, modular stand alone power systems. The company aims to empower businesses to become energy independent by reducing reliance on diesel, and shifting to renewable energy sources.

Office Locations



The Executive Team



Joel Tay

Chief Executive Officer



Wei-Chi Lee

Chief Operations Officer



Benjamin Lam

Chief Technical Officer

Fueling the Future

The founding members of PHNXX come from the resource and mining industries, where they specialized in modular fuel storage and dispensing systems.

Driven by a desire to make a positive impact, they pivoted to renewable energy, applying their expertise in modular design to help accelerate the energy transition.



Modular Microgrid System

Build-a-Microgrid

In today's dynamic energy landscape, committing to fixed assets can be challenging and a financial risk. PHNXX's modular microgrid system addresses this with a flexible, modular design, enabling easy integration and scalability with minimal site work requirements.

Mobile

Modules sit in the footprint of a standard ISO shipping container and can be easily moved.

Rapidly Deployable

Plug-and-play modules that are constructed off site allow for quick deployment.

Customizable

The system can be configured to suit a variety of different and shifting requirements.

Minimal Labor

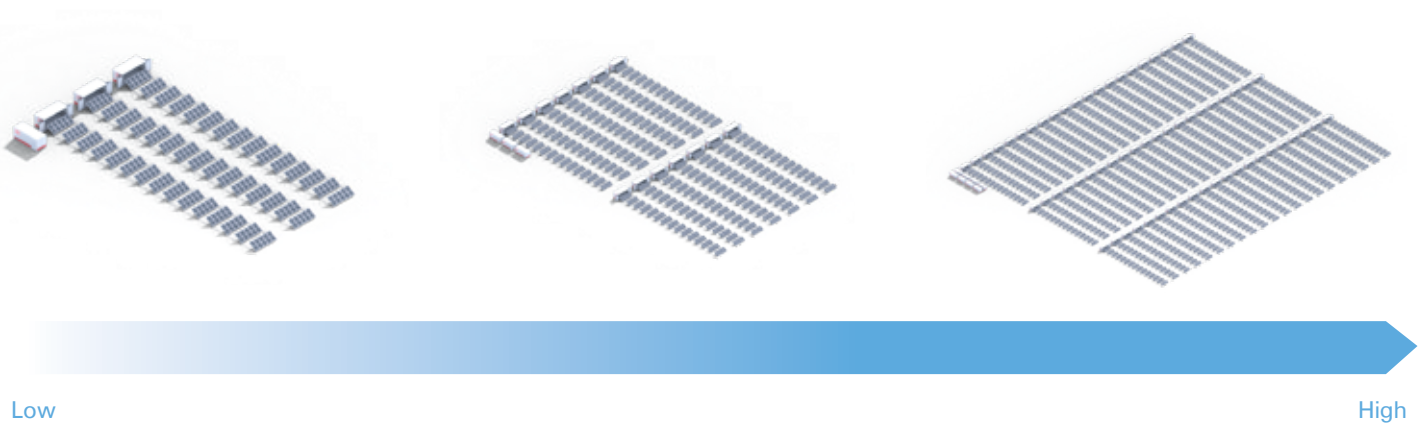
Overall costs are lowered through the reduction of on-site labor and civil works costs.



Seasonal and On-demand Scaling

Scalable Power Demand

Assets can be added over time to match increased or decreased needs, reducing the initial CAPEX required to set up a renewable energy system allowing for organic growth over time.



Seasonal Power Demand

With a base system installed, additional modules can be temporarily deployed to match seasonal peak loads. This eliminates the need to over-engineer a system just to suit the peak demand.





Industry & Applications

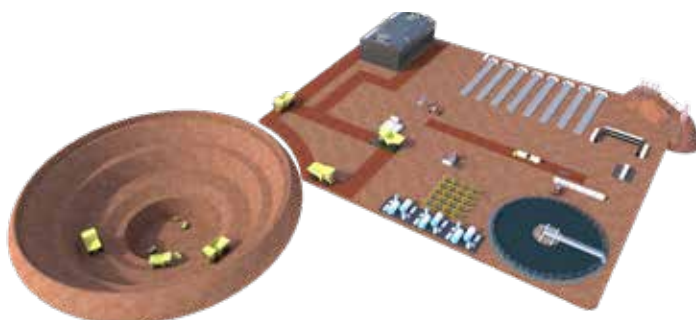
Agriculture

PHNXX's power generation and storage systems provide farmers with flexible, reliable energy solutions, ideal for autonomous farming, and off-grid diesel replacement. The mobility of the system make it perfect for shared farms or seasonal peak loads.



Construction / Mining

For mines with short lifespans or mobile operations like remote construction sites, fixed renewable assets can be a liability. PHNXX's Stand-Alone Power Systems solve this by allowing assets to be easily moved, redeployed, and reused as needed.



Eco-tourism / Communities

Eco-resorts and remote communities face high costs and logistical challenges when adopting renewables. PHNXX's pre-assembled, scalable modules can be quickly deployed with a small local crew and minimal civil works, reducing disruptions and environmental impacts on site.





**Mobile stand-alone power
systems designed for flexibility**

Key Partners



ENGIE is the world's largest independent power producer focused on renewable energy, energy services, and carbon-neutral solutions. It aims to support the transition to a sustainable, low-carbon future.



dLL, part of Rabobank, is a global financial services provider offering leasing, lending, and asset management solutions. It supports industries like agriculture and healthcare, with a focus on sustainability and innovation.



Synertec is an Australian technology and engineering company that specializes in providing automation and control systems for critical infrastructure in industries such as energy, mining, and utilities.

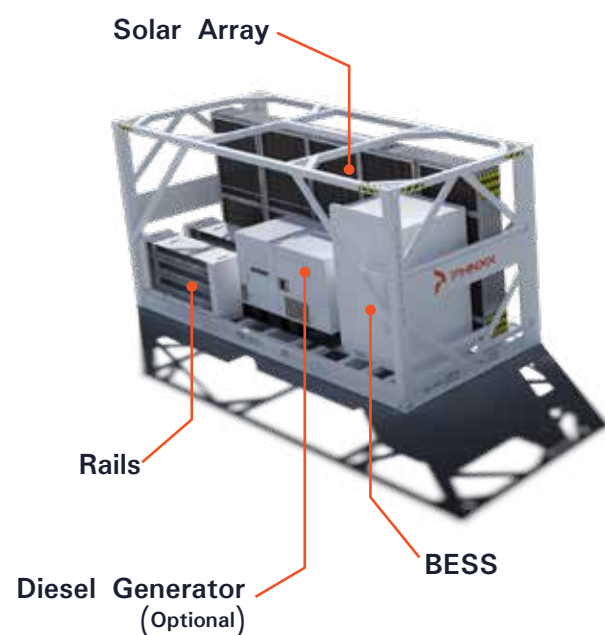


Integrated Power Module

‘Grid-in-a-Box’

A self contained power generation and storage system that utilizes PV-modules to generate power from solar energy and a lithium iron phosphate battery for storage. This module can be used both on-grid and off-grid and be configured with a back up diesel generator if desired.

Solar Rating	35 kWp
Battery Capacity	38–215kWh
Rated Input/Output Power	Up to 100kW
Dimensions (Stowed)	6.1m x 2.4m x 2.9m
Min. Land Space Required	6.1m x 45.4m
Max. Weight	14 000 kg



Scalable to adapt to a broad range of needs

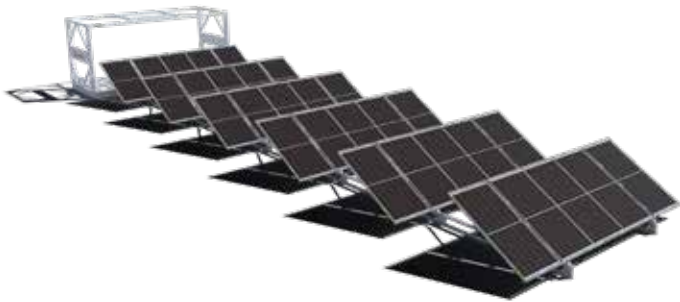


Rapidly deployed and packed-up to meet dynamic operational requirements

Solar Power Module

‘Solar-in-a-Box’

A self contained power generation module that utilizes bi-facial PV panels to generate power from solar energy. This module can be configured with an inverter as a single stand alone system or scaled by combining multiple units into a central inverter for larger utility applications.



Solar Rating	35 kWp	70 kWp	87 kWp
Dimensions (Stowed)	6.1m x 2.4m x 2.9m		
Min. Land Space Required	6.1m x 45.4m	6.1m x 92.1m	6.1m x 113.6m
Max. Weight	11 500 kg	18 500 kg	*17 000 kg

*Rails shipped separately for 90kWp module



BESS Module

'Battery-in-a-Box'

A self contained power generation module that utilizes bi-facial PV panels to generate power from solar energy. This module can be configured with an inverter as a single stand alone system or scaled by combining multiple units into a central inverter for larger utility applications.

Cabinet

Battery Capacity	38–76kWh	107kWh	125–215kWh
Rated Input/Output Power	Up to 50 kW	Up to 50 kW	Up to 100kW
Dimensions	1.4m x 2.1m x 1.1m	1.2m x 2.1m x 1.3m	1.7m x 2.1m x 1.3m
Max. Weight	1 600 kg	1 500 kg	2 500 kg



Containerized

Battery Capacity	430–1720 kWh
Rated Input/Output Power	Up to 800 kW
Dimensions	6.1m x 2.4m x 2.9m
Max. Weight	25 000 kg



Standard Configurations

Configurable to Meet Needs

Modules can be combined to suit different energy profiles. Outside of the standard set-ups below, larger stand-alone power systems can be configured as required.



Configuration	A-S35B107	A-S70B125	A-S105B215
Solar Rating	35 kWp	70 kWp	105 kWp
Battery Capacity	107 kWh	125 kWh	215 kWh
Rated Input/Output Power	50 kW	50 kW	100 kW
Dimensions (Stowed)	6.1m x 2.4m x 2.9m		
Min. Land Space Required	6.1m x 45.4m	12.2m x 45.4m	12.2m x 92.1m

Micro Modules

‘Grid-on-Wheels’

A trailer mounted system with a tiltable solar array, battery storage, and a backup diesel generator. Optional add-on features like light towers, and surveillance/communication systems are available.

Solar Rating	1.2 – 4.8 kW
Battery Capacity	5–48kWh
Rated Output Power	Up to 4kW
Dimensions (Stowed)	3.9 m x 2.0 m x 3.1 m
Max. Weight	2 200 kg





Energy-as-a-Service

Renewable Solutions Without Capital Investment

Energy is typically classified as an OPEX spend rather than a CAPEX spend. To make it easier for businesses to transition to sustainable energy without the burden of significant capital expenditure PHNXX offers Energy-as-a-Service solutions through partnerships with financial service providers such as DLL and ENGIE.

Asset Financing

Renewable energy assets are financed at a fixed rate over time through a chattel mortgage or lease-to-own option. Clients can choose to own the systems outright or opt for an upgrade once the financing term concludes.

Rental/Leasing

Short-term and medium-term solutions that provide access to renewable energy systems through monthly or annual payments, without the long-term commitment of ownership.

Power Purchase Agreement (PPA)

Short, medium, and long-term contracts for the purchase of energy, where clients pay only for the power consumed during the contract period, with no upfront capital costs for the renewable energy assets.







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