

DJOOKIAN



Renewables Catalogue

Power that empowers

0481 180 777

Djookian acknowledges our ancestors and Elders, past and present, whose wisdom, resilience, and strength continue to guide us.

We honour the deep connection our people have to the land, waters, and sky, and recognise the cultural knowledge and practices that have been passed down for generations. We are committed to reducing the carbon impacts on this land for future generations to come.

As we walk forward together, we extend our respect to all First Nations peoples and reaffirm our commitment to nurturing this heritage and building a future of respect and understanding for all.





Indigenous owned Female led Engineering first

Djookian is the Noongar word for sister. We are an indigenous owned equipment sales and rental business with a focus on sustainability. We specialise in renewable energy products designed to replace diesel generators in construction and mining applications.

Our team of technicians and engineers have an engineering first mindset, and we focus on delivering the cleanest and cheapest energy in off grid applications using a variety of innovative technologies.

Djookian is passionate about advocating for increasing the participation of women and indigenous team members

in equipment rental and construction related industries. We also support a variety of women and indigenous focussed social causes such as Djirra which is an organisation that stands against family violence and offers support services.

At Djookian we believe sustainability is an all encompassing principle. In order to develop a sustainable industry we must add value to the ecosystem that supports our industry. That ecosystem includes ensuring we add value to customers, staff, suppliers, other industry participants and the communities in which we operate





Meet the team

DJOOKIAN



Co Founder

KIRBY BENTLEY

Djookian Co Founder Kirby Bentley has over fifteen year's experience in the construction and mining industries. Kirby is a licensed rigger, dogman and shot firer. Kirby is a proud Noongar Yamitji woman who has held a variety of leadership roles across a diverse range of industries culminating in her role at AFL House developing their Reconciliation Action Plan. Kirby also has an impressive sporting background in the AFLW playing for Carlton and Fremantle.

Kirby is heavily involved in a variety of social causes and is an ambassador for Djirra a not for profit organisation that specialises in providing safe and holistic assistance to Aboriginal and Torres Strait Islander people who have experienced family violence. Kirby also competed as a contestant in the 9th season of Network Ten's Survivor where she was known for her strong social skills and strategic game play.

Co Founder

LEAH KASLAR

Our Co Founder Leah Kaslar, is an environmental scientist with over 10 year's experience in environmental remediation in the construction industry. In recognition of her contribution to the environmental sector, Leah was invited to Parliament House to participate in a Senate enquiry on national remediation outcomes. Leah is also an accomplished athlete, playing in the AFLW and has captained the Brisbane Lions and Gold Coast Suns AFLW teams.

Leah is a wadjela (non-aboriginal) woman who worked on the board of the AFL Players Association to improve gender diversity and equity. Leah is passionate about environmental sustainability and supporting greater female and indigenous involvement in the rental and construction industry.





Simple, Scalable, Safe, Smart

The Djookain renewable power product suite is designed to offer simple solutions for cost and carbon reduction. Djookain carries a 48v and 650v fleet across our national branch network. All of our products are stackable and interchangeable, meaning that we can ramp your system up and down to suit your changing power and budget needs on site and deliver quantifiable clean and cost effective energy 24-7.

purple
pod

Purple Pod 10/20/30



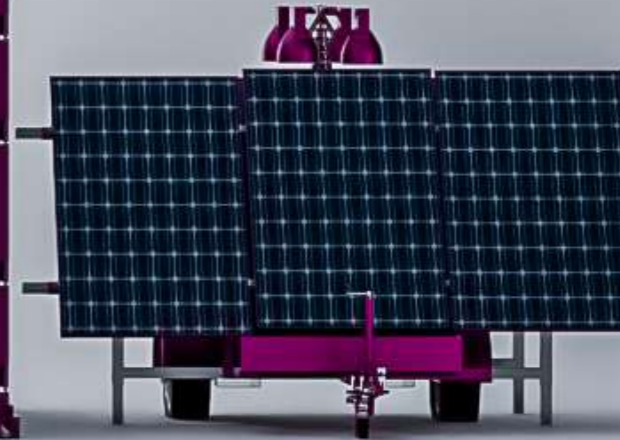
purple
cube

Purple Cube 100-600 kW



purple
GlowBug

Hydrogen Light Tower



purple
Hydrogen

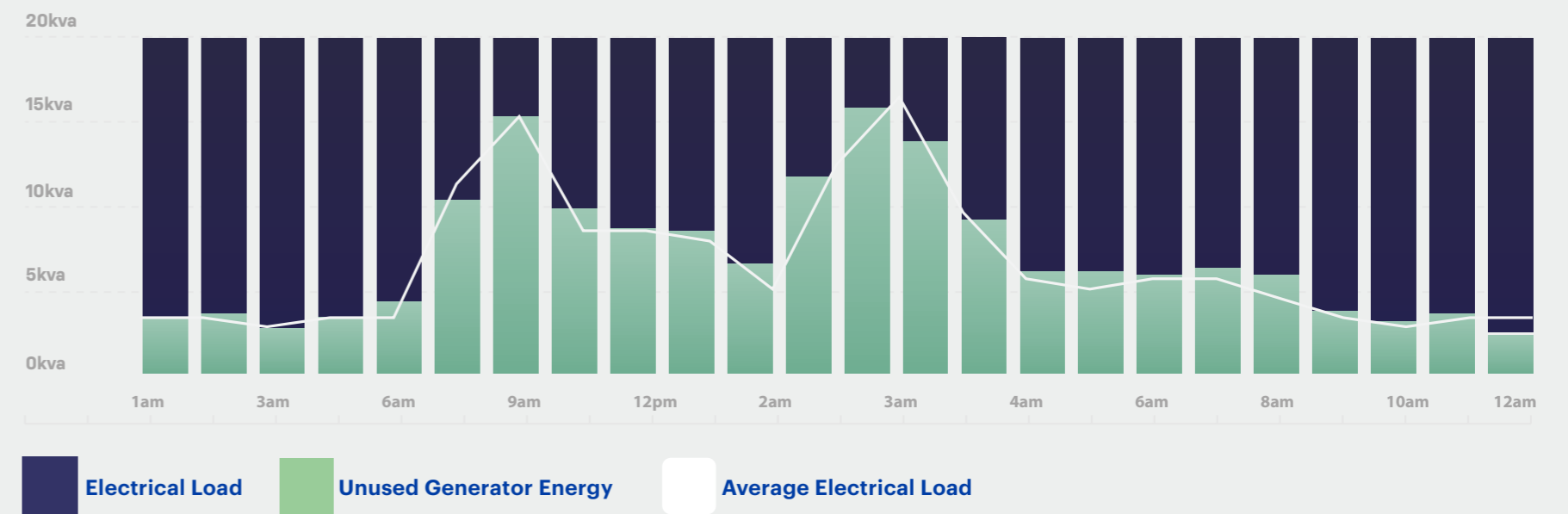
Hydrogen Generator





Renewables are cheaper than diesel generators in variable load applications

- Diesel generators need to be sized to handle peak load.
- In variable load applications such as portable buildings and cranes, the gap between the average load and peak load is often significant.
- Diesel generators are then producing mechanical energy that is not required as electrical energy.
- This excess mechanical energy is wasted fuel and carbon.
- A Purple Cube only delivers the energy that is asked of it.
- Even when the diesel generator is charging the Purple Cube, the Purple Cube makes the engine operate at it's optimum efficiency.
- In most variable load applications, diesel run times can be reduced down to zero to 2 hours per day.



Compact Hybrid Energy

Purple Pod


The Purple Pod is a compact hybrid energy unit designed to replace diesel generators up to 45kva. An all in one, compact renewable solution, the Purple Pod includes a fuel optimised diesel generator, a 2kw solar cassette, up to 60kw/h of LiFePO energy storage and a fully remotely controllable inverter package that enables you to see and control everything that's happening on your site from any location with a mobile phone signal. In most applications, the Purple Pod will reduce your daily reliance on diesel generators by between 90 and 100%.



 **2kW**
Solar Cassette

 **60kw/h**
Energy Storage

 **30kVA**
Diesel Backup

 Fully programmable, remotely monitored inverters



	Diesel Gen	Purple Pod
Monthly Rental	\$1,300	\$4,100
Monthly Fuel	\$4,380	\$612
Total Monthly Cost	\$5,680	\$4,712
Monthly Carbon	4,891kg	683kg
Diesel Operation	24 Hrs Per Day	2 Hrs Per Day



Hybrid Bess Technology

Purple Cube


The Purple CUBE is a class leading range of hybrid Battery Energy Storage Systems designed to deliver renewable energy to larger construction and mining applications. Our standard range of 100kw/h and 400kw/h Purple CUBES can deliver up to 1600kw/h of energy per day to your site. Purple CUBES are fitted with multi-voltage charge inputs and can receive energy from multiple sources separately or concurrently. From solar, to wind, hydrogen to bio diesel, Purple CUBES can also be charged using mains power and diesel generators. Even without renewable energy input, a Purple CUBE can optimise your diesel generator, storing it's inefficient and unused mechanical energy for later use and reducing diesel operation from 24 hours per day down to between zero and 4 hours.



 **100%**
Solar Capable

 **800kw/h**
Energy Storage

 **400kw**
Energy Output

 Fully programmable, remotely monitored inverters

Purple Cube In Action

TYPICAL 100kVA DIESEL APPLICATION



	Diesel Gen	Purple Cube
Monthly Rental	\$3,680	\$13,866
Monthly Fuel	\$14,366	\$2,394
Total Monthly Cost	\$18,046	\$16,260
Monthly Carbon	16,042kg	3,227kg
Diesel Operation	24 Hrs Per Day	2 Hrs Per Day




Hydrogen H2 Whoa

Djookain's Purple H2 Hydrogen Generators are available for trial on the East Coast. Our engineering team is firm in the belief that hydrogen will play a vital role in the clean energy transition. Whilst our Purple Pod and CUBE range already deliver significant cost and carbon reduction in variable load applications, there needs to be an emission free technology to replace diesel generators in base load applications such as pumping and other constant load scenarios.


Hydrogen offers a completely carbon free base load power solution. As an emerging technology, Djookain's Purple H2 fleet is fully certified to deliver Hydrogen powered energy to real time applications in construction, mining, and industrial applications. Our hydrogen generators are not just show ponies. They can be used on real projects for long term applications, affording our customers the opportunity to become familiar with the technology that we believe will become the logical replacement for diesel generators in the medium term.



 **40,000hr**
Operating Life

 **16%**
More Fuel Efficient

 **100%**
AUS/NZ Compliant

 Proudly made in
Brisbane



Hydrogen trials now available

For more information on our Hydrogen generators, please contact your Djookain account representative.



Modoken is a proprietary software system for measuring carbon and other key environmental metrics in off grid energy systems. Modoken can be used in a variety of ways including establishing a budget around carbon or cost for a machine, site or entire fleet and delivering behavioural driving metrics and insights into improvement opportunities.

01 CONSUMPTION

Modoken will measure the kilowatt hour consumption of your machine, site or fleet, factoring in variables around your source energy, delivering a true measure of how much energy you are

02 COST

Modoken can be used to develop entire energy cost budgets and will deliver a per kw/h cost assessment for your machine, site or fleet. Modoken also has a "what if?" function that allows you to measure what your costs would be if you replaced your existing energy with alternative sources.

03 CARBON

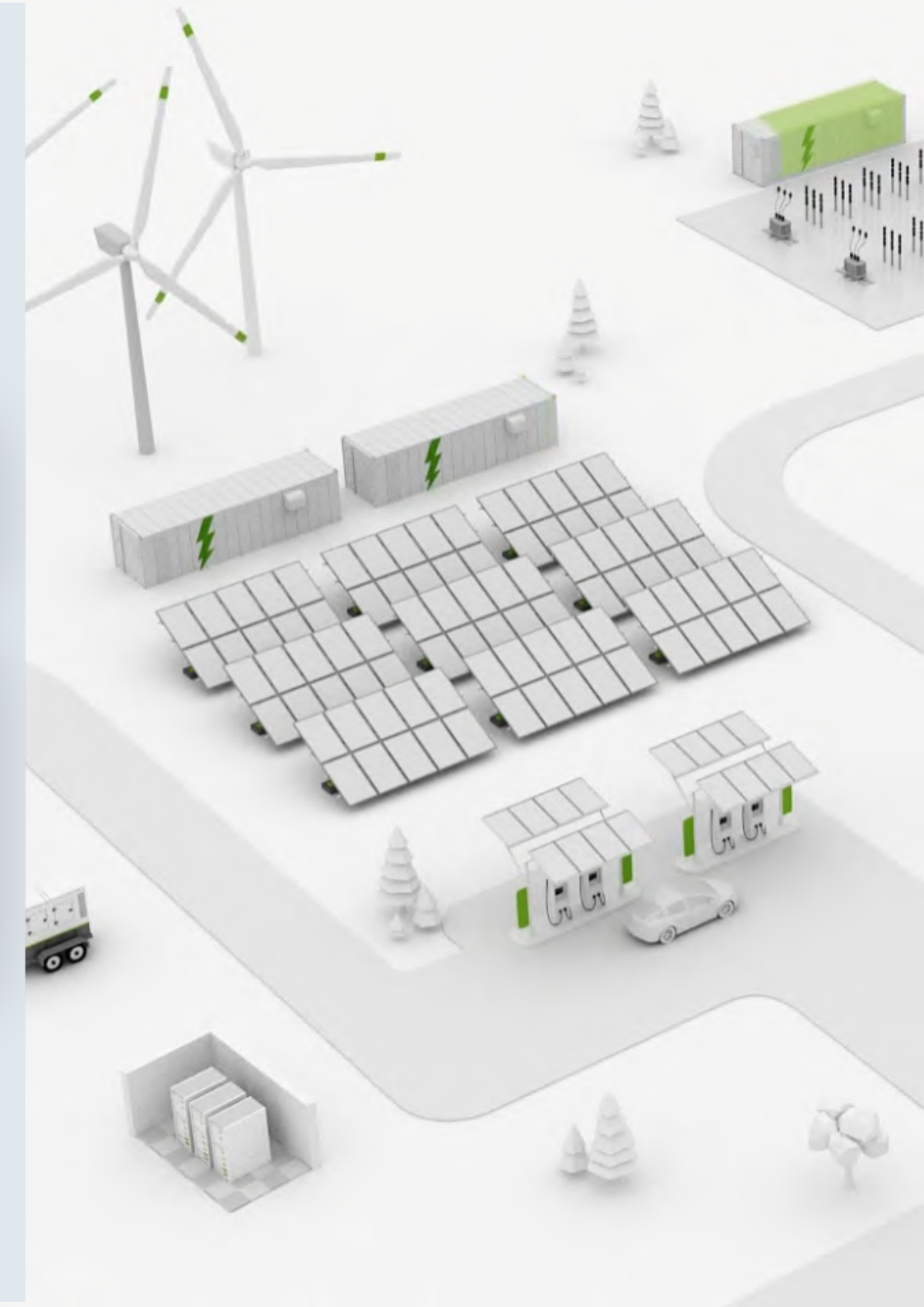
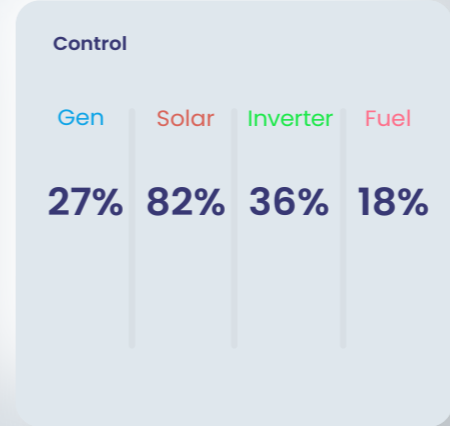
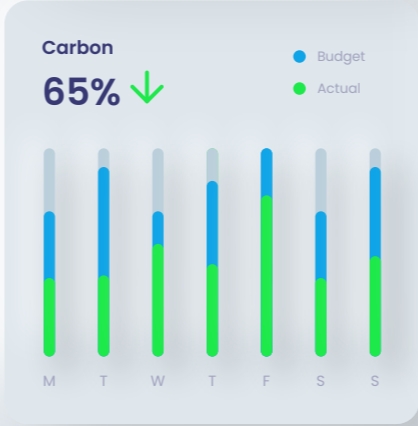
Blended carbon consumption, scope 1 and 2 emissions and performance against carbon reduction targets are the bread and butter for Modoken. The large amount of variables that go into understanding your machine, site or fleets net zero journey and delivering accurate reporting is the whole reason Modoken was developed in the first place.

04 CONTROL

Modoken also enables you to remotely see, monitor and control your energy assets. Anything from load behaviour to preventative ,maintenance, refuelling scheduling and safety can be monitored and controlled using the Modoken system on your



Easy To Understand Data Delivered Directly To your Phone or Computer. Via The Modoken App.



Other
Products
available for
sale or rental



DJOOKIAN



0481 180 777

Leah@djookian.com.au
Kirby@djookian.com.au