Solar Solar Scale Dp Challenge Powered by ARENA

TeamUp Event Brochure 18 July

This brochure has been prepared by the Greenhouse Challenge team and contains publicly available information submitted on the Greenhouse Challenge platform and is provided in this summary form to better allow people to find collaboration opportunities during the TeamUp event. It is accurate as at 08:00 July 8th showing all submissions that are not in draft form.



Solar ScaleUp Challenge

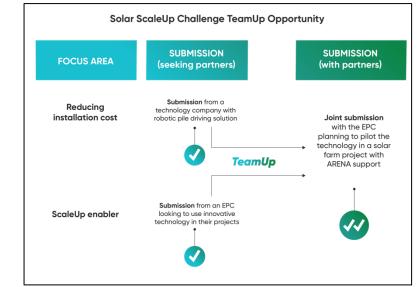
The Solar ScaleUp Challenge was launched by ARENA, in collaboration with Greenhouse, as part of a global effort to accelerate innovation in large-scale solar. We want to source the best ideas for reducing the cost of large-scale solar PV installation, operations and maintenance.

Objectives of the Challenge

- 1. Surface new innovations from around the world; and
- 2. Facilitate connections between participants who can form multi-disciplinary teams.

Benefits of participating in the Challenge

- Access to exciting funding opportunities: Should you be successful; you could receive part of a pool of up to AU \$100 million of grant funding.
- Collaborating with industry leaders and innovators: During the Challenge, including this TeamUp event, there will be several opportunities to identify partnership opportunities with other stakeholders.
- **3.** Global exposure for your technology & brand: Successful applicants will be shared publicly, leveraging the networks of ARENA, Greenhouse and their partners.



TeamUp Event – 18 July

The event will provide you with the opportunity to:

- Hear about the submissions we've already received, including some quick pitches.
- Receive first-hand feedback from ARENA on existing submissions.
- Connect with potential partners who could bolster your submission or help you submit additional submissions in partnership with others.

TeamUp opportunity explainer from the challenge statement.

Solar ScaleUp Challenge

Tip to get the most out of this brochure

Throughout this document you will see buttons that are hyperlinked to either a company's submission to the Solar ScaleUp Challenge or their website.

Link to submission

Link to organisation
website

This will link to the company's submission on
Greenhouse Challenge platform

This will link to the company's website

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In order to see the submission you have to log in to your Greenhouse Challenge account or simply create – an account.

To create an account, you will need to enter your name, email address, and password.

You will then need to validate your email by clicking on the link in the email sent to you by Greenhous<u>e</u> Challenge.

Login			
Welcome, pleas	e log in to your acc	count.	
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New here? Creat	te an account →		

Your registration on Greenhouse Challenge

Activate your account

Hello Marcus Arelius,

We are happy to welcome you to Greenhouse Challenge! To activate your account, please confirm your email address through this

link.

Best regards, Your Greenhouse Challenge team

By creating an account, you're communications in the future		in to receive Green	house Chall	enge
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TeamUp registered attendees (1 of 2)

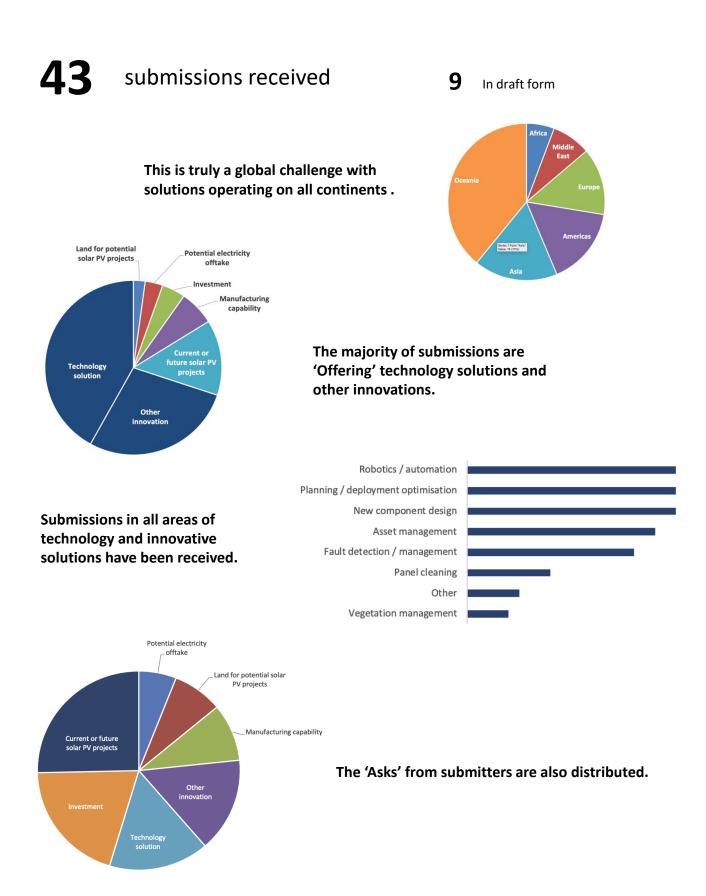
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NIcole		
	Kuepper	CSO
James	Garnett-Letts	Intern
Amaury	van Trappen de Buggenoms	CEO
Aryan	Manocha	Business Development Intern
	Ma	Director
Alison	Lennon	Scientist
Rachitha	Muthukumarana	C00
Darren	Miller	Chief Executive Officer
Elicia	Cantelo	Senior Strategy Manager
Linda	Zhang	Senior Analyst
Dan		Director, BD&T
		Analyst, BD&T
	•	Manager, BD&T
		Managing Director
		Client Partnership Architect
		Director Sales
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		Intern
		CEO
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		Team Leader
		Software Engineer
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-		Mechanical Engineer
		Commercialisation Manager
		Senior Engineer
Sahan		Research Scientist
Ross	Dungavell	Senior Engineer
Jeff	Hu	MD
Oskar	Klaes	Senior Manager
Tim	Prosser	Climate Tech Advocate
David	Nguyen	CEO
Ming	* .	Managing Director
•		Team Lead Hybrid Development
		Head of Growth - Remote Energy
		Head of Strategy and Product Co-Founder
-		Senior Project Engineer
-		Senior Manager Decarb Delivery
		Senior Strategic Advisor
		Principal Energy Policy
		BD Manager-Clean Energy
Shelly	Ngo	Manager
Stephen	Dowling	Grant Sherpa
Glenn	Carless	Founder
Sarah	Bertin	Project Manager
Mark	Rowland	Chief Collaboration Officer
Ibrahim	Afridi	Founder/CEO
Robbie	Coleman	Head of Brand, Strategy & Academy
Gourav	Sharma	СОО
Tim	Hodgson	CEO
Clyde	CAMPBELL	CEO
Laurence	Gonano	Director
		Senior Consultant / Technology Developer
		CEO
Oliver	Kunz	
	NULL	СТО
		CEO.
Uri	Sternberg	CEO
		CEO CTO Director BD
	AmauryAryanZhangyongAlisonRachithaDarrenEliciaLindaDanAidenDebJainAbhishekNikhilTheaDougTonyMichaelFredMikeGraemeBradSahanRossJeffOskarTimDavidMingPeterMichaelGrantQuentinLeighDeidreTomRayShellyStephenGlennSarahMarkIbrahimRobbieGouravTim	Amauryvan Trappen de BuggenomsAryanManochaZhangyongMaAlisonLennonRachithaMuthukumaranaDarrenMillerEliciaCanteloLindaZhangDanSturrockAidenPangDebChenJainLalAbhishekYadavNikhilJoyTheaBurhanDougSmithTonySchirmerMichaelRaeMichaelRaeMichaelElliottFredPaulingMikeCollinsGraemeCaplenBradWolfgangSahanKuruneruRossDungavellJeffHuOskarKlaesTimProsserDavidNguyenMingLiuPeterHulkenbergMichaelBuzzardGrantMcDowellQuentinCRANCEELeighDowieDeidreWillmottTomParkinsonRayMaShellyNgoStephenDowlingGlennCarlessSarahBertinMarkRowlandIbrahimAfridiRobbieColemanGouravSharmaTimHodgsonClydeCAMPBELLLaurenceGonanoBrettHallam

TeamUp registered attendees (2 of 2)

Organisation	First Name	Last Name	Job Title
Monford Group	Brian	Rafferty	Chief Technology & Innovation Officer
My Net Zero	Richard	Harding	Head of Experience
Monsol	Alexander	May	Founder-inventor
Mornington Shire Council	Susan	Jacups	Grants writer
Murdoch University	Farhad	Shahnia	A/Professor
Oak and Reed Energy	Danny	De Schutter	Director
PHNXX	Wei-Chi	Lee	COO
PlasmaLeap Technologies	Adel	Rezaeimotlagh	R&D Project Manager
Positive Deviancy	Jade	Garrett	Owner
Powerpeak	Muhammad	Ismail	Power systems engineer
Prisma Vitral C.A Architecture & Planning	Daniel	Guerra	CEO
Proa	Beatriz	Toribio Lopez	Head of Product
Pumpkin Engineering	Joshua	Lai	Engineer
Pumpkin Engineering	Peter	Beasley	Director
PV2+ GmbH	Katharina Franziska	Braig	COO/CFO
PVHardware	Lorna	Charro	Sales Manager
Quantified Energy Labs Pte. Ltd.	Yan	WANG	CEO
Reswitch	Kate	Osaze	Founder
Reswitch Rocksbridge Pty Ltd	Paul	Pacino	Adviser
SE	Mark		
	-	Maj	Manager Business Manager
Share IT Energy Sktes	Hannah	Watts	Business Manager
	Sandeep	Verma	Sr client partner
Smart Commercial Solar	Kealy	Day	Head of Solutions and Performance
Smart Commercial Solar	Lauren	Hamilton	Head of Marketing
Solar Energy Robotics	Alan	Fenelon	CEO
SOLPOD	James	Larratt	CEO
Solstice Al	Julian	de Hoog	Cofounder and CEO
SPD Energy	Steven	Ducat	Founder & CEO
SPREE, UNSW	John	Rodriguez	Project Manager
SunBioSys	Stephan	Ong	Co-Founder
Sundrive Solar	daniel	chen	Head of module R&D
SYSTEMS	peter	key	Technical Manager
Techko Pty Ltd	David	Barshevski	managing Director
Trinano Technologies	Dr Harsh	Sethi	CEO & Founder
University of New South Wales	Abhnil	Prasad	Senior Research Fellow
University of New South Wales	Brendan	Wright	Postdoctoral Research Fellow
University of Wollongong	Xingchen	Hu	PhD student
University of Wollongong	Xiaoxiao	Bu	Student
University of Wollongong	Jun	Shen	Prof
UNSW	Ziv	Hameiri	Prof
UNSW	Renate	Egan	ACAP Centre Director
UNSW	Merlinde	Кау	Associate Professor
UNSW	Ahilan	Kanagasundaram	PostDoc
UNSW	Jim	Joseph John	Senior Research Fellow
UNSW	Ali	Shakiba	Research Fellow
UNSW	Colin	Zhou	Researcher
UNSW	Bram	Hoex	Professor
UOW	Aiai	Ren	PhD
VOW	Xu	ZHOU	Ph.D
USP	Pamella	S Arakaki	MBA candidate
JTS	Jahangir	Hossain	Professor
VOLT FARMER PTY LTD	Stephen	Todd	Project Developer
Volta Advisory	Emily	Belleville	Senior Consultant
Western Sydney University	Elizabeth	Smith	Research Partnership Development Manager
Worley	Peter	Israel	Director Power
Worley	Blanca	Rodriguez	Power And New Energy Consultant
Zenaji Pty Ltd	Hans	van Pelt	Interim CEO

Key stats from the challenge submissions

(accurate to 08:00 July 18th AEST)

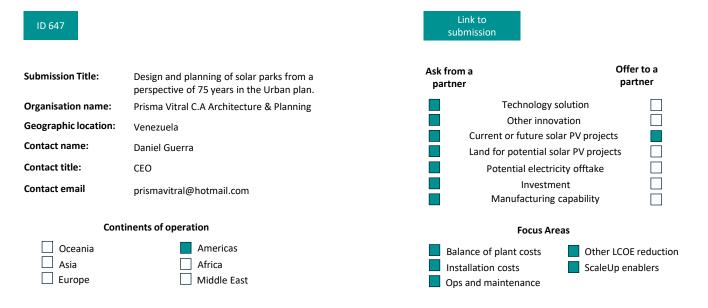


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684 21 ELITE SURFACE PROTECTION Nanotech Coatings 674 21 Empowering Multi-Tenanted Communities with Renewable Energy - REIS Platform Share IT Energy 666 22 Al-Based Solar Energy Forecasting Solstice Al 660 22 Innovative Solar Energy Management Platform with Energy Auto Bidding Feature SynCo Global 683 23 PV Maps: Al-driven solling prediction and automated cleaning optimiser The University of New South Wales 653 23 Trinano Coating optimizes performance of every solar panel regardless of make, type, age or location Trinano Technologies Pvt. Ltd. 675 24 Decarbonising Remote Mines & Communities Energy Developments Pty Limited 678 24 Equans Solar & Storage AU - Large-scale solar EPC Equans Solar & Storage AU (Bouygues Group) 644 25 Greenova8 - GreenPay Greenova8 657 25 Increva - third-party management service for providers and resource companies for solar projects Increva PTY LTD 679 26 Integrated Vertical Solar System Innovative Technologies Pty Ltd				
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	663	26	Integrated Vertical Solar System	Innovative Technologies Pty Ltd
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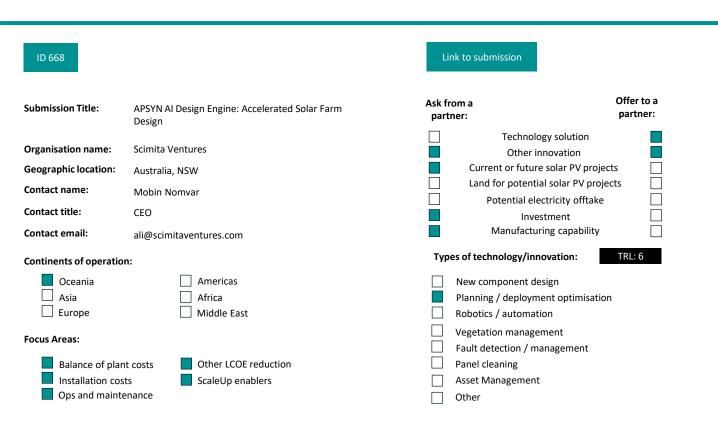
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Overview

Provide a 75-year planning design for the urban plan. Operation and maintenance services until 2050. Through intelligent design, artificial intelligence, satellite remote sensing, and materials research, ensure and prevent global warming, avoid lethal heat waves and fires, and conserve materials.



Solution description

APSYN is an Al-powered design tool that optimises solar farm designs considering technology, performance targets, and constraints. It simplifies design using advanced simulation and optimisation, offering precise solutions. Key features:

- AI-assisted system design and performance simulation
- Comprehensive ROI financial analysis
- Integration with business tools for seamless management

- Compatibility with existing equipment suppliers (PV, battery, etc.)

ID 631

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Submission Title:	Automated Staging of Solar Tracker Components	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email:	Solar Farm Constructions Australia, VIC Kai Musgrove Mechanical Operations Manager kai@solarfc.com.au	Technology solution Other innovation Current or future solar PV proje Land for potential solar PV proj Potential electricity offtake Investment Manufacturing capability	
Continents of operation	:	Types of technology/innovation:	TRL: 6
Oceania Asia Europe Focus Areas: Balance of plant Installation cost: Ops and mainter	s ScaleUp enablers	 New component design Planning / deployment optimisation Robotics / automation Vegetation management Fault detection / management Panel cleaning Asset Management 	

Solution description

Traditionally, small quantities of components on solar farms were moved to their location in the back of a truck. Over many projects, we have developed specialised handling equipment to improve productivity significantly. To further improve productivity, we are integrating GPS machine control into this specialised equipment, improving efficiency and accuracy in the construction stage.

ID 661		Link to submission	
Submission Title:	Solar 2.0: Automated rack and panel assembly	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location:	Worley Australia, NSW	Technology solu Other innovati Current or future solar I	on 📃
Contact name: Contact title:	Joachim Meister Group SVP Power & New Energy	Land for potential solar Potential electricity Investment	PV projects
Contact email	joachim.meister@worley.com	Manufacturing cap Types of technology/innovation	
Continents of operatio	Americas Africa Middle East	New component design Planning / deployment opt Robotics / automation	
Focus Areas: Balance of plan Installation cos	ts ScaleUp enablers	 Vegetation management Fault detection / management Panel cleaning Asset Management Other 	nent

Solution description

The pre-assembly cell consists of a gantry robot and six 3-axis robots, which apply automotive technology to pre-assemble solar table tops for fixed tilt-solar PV plants. We have also identified joining technologies from the automotive sector to enable full automation of the joining of rack structures and panel-to-rack connections.

ID 652

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Submission Title:	5B Maverick – rapidly deployable prefabricated solar solution	Ask from a partner:	Offer to a partner:
		Technology solution	
Organisation name:	5B Holdings Pty Ltd	Other innovation	
Geographic location:	Australia, NSW	Current or future solar PV p	rojects
Contact name: Contact title:	Dr Nicole Kuepper-Russell Chief Strategy Officer	Land for potential solar PV p Detential electricity offta	
Contact email:	sanaya.khisty@5b.com.au	Investment Investment Investment	ity
Continents of operation	:	Types of technology/innovation:	TRL: 7-8
Oceania Asia Europe	Americas Africa Middle East	 New component design Planning / deployment optimis Robotics / automation 	ation
Focus Areas: Balance of plant Installation cost	s ScaleUp enablers	 Vegetation management Fault detection / management Panel cleaning Asset Management Other 	

Solution description

5B has demonstrated the 5B Maverick in 140MW across 90 sites globally and is seeking scale opportunities. This commercial solar solution makes it faster and safer and more land, labour, and cost-efficient to deploy solar, from off-grid to GW-scale projects. 5B also brings the expertise of its technology and production teams, with significant experience designing and delivering projects using the 5B Maverick and insights for educating buyers about the benefits of this technology.

ID 673		Link to submission	
Submission Title:	ASM Wireless PV Module and Plug & Play Combiner Box	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email: Continents of operation	Australian Solar Manufacturing Pty Ltd Australia, SA Jain Lal Managing Director jainlal@jlelectrics.com.au	Technology Current or future so Current or potential s Current or potential s Current or future su Current or potential s Current of technology/innov	ovation
Oceania Asia Europe Focus Areas: Balance of plan Installation cost Ops and maintee	Americas Africa Middle East t costs Other LCOE reduction ts ScaleUp enablers	 New component desig Planning / deploymen Robotics / automation Vegetation management Fault detection / management Asset Management Other 	t optimisation n ent

Solution description

ASM's newly designed range of products Made in Australia will reduce delivery time [ETA] and shipping costs with an improved quality backed by Product Warranty & Liability Insurance.

ASM Wireless PV Module will save hundreds of hours installing negative run in the field, thousands of meters of 4mm²/6mm² cables not required, estimated 40,000m for every 100MW X \$1.20/m. Our Plug & Play Combiner Box is also vital in terminating those Strings; 20 Minutes to install a 20 X Dual Protection CB.

Submission Title:	Fully autonomous pile installation for large scale solar improving efficiency & reducing costs	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title:	Built Robotics Australia Pty Ltd Australia, QLD Paul Kelly General Manager	Technology solution Other innovation Current or future solar PV projects Land for potential solar PV projects Potential electricity offtake Investment	
Contact email: Continents of operation	paul@builtrobotics.com	Types of technology/innovation:	TRL: 7-8
Oceania Asia Europe Focus Areas: Balance of plant Installation costs Ops and mainter	S ScaleUp enablers	 New component design Planning / deployment optim Robotics / automation Vegetation management Fault detection / management Panel cleaning Asset Management Other 	

The RPD 35 is a fully autonomous robotic pile driver that combines four steps — surveying, pile distribution, pile driving, and data collection — into a single robot. Every RPD 35 pairs with an RPS 25. The robotic pile stabiliser ensures driven piles exceed the most stringent tracker tolerances and produce consistently placed piles every time: accurate z-heights, perfect plumbness, and unrotated piles.

ID 626		Link to submission	
Submission Title:	Green Energy Systems - Solar Waves	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email:	Green Energy Systems Pty Ltd Australia, NSW Glen Carless Founder & CEO glen@nbsystemsgroup.com	 Technology solution Other innovation Current or future solar PV p Land for potential solar PV Potential electricity officients Investment Manufacturing capability 	projects
Continents of operation	1:	Types of technology/innovation:	TRL: 7-8
Oceania Asia Europe	Americas Africa Middle East	New component design Planning / deployment optimi Robotics / automation	sation
Focus Areas: Balance of plan Installation cost	s ScaleUp enablers	 Vegetation management Fault detection / management Panel cleaning Asset Management Other 	t

Solution description

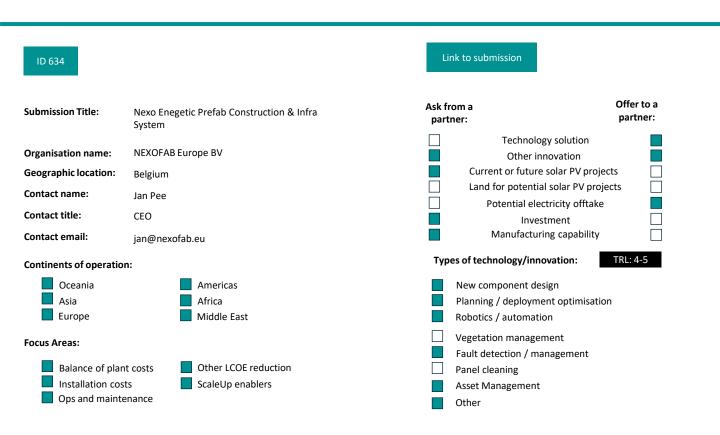
We have combined the two rather than treating the solar panel as separate from the mounting system. Our new system locks 5 panels together, forming a larger, stronger assembly interconnected with a structural frame in a continuous hinge system, allowing all panels to be folded into compact concertinaed blocks of power. 50 KW. By eliminating all nuts, bolts, clamps & screws, we have simplified the system, made it stronger as well as dramatically reducing the cost. A Win, Win, Win.

ID 664

Submission Title:	Automated Lightweight Rapid Deployment Solar Farms	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email:	Monsol Australia, VIC Alexander May Founder info@monsol.energy	Technology solution Other innovation Current or future solar PV pr Land for potential solar PV p Potential electricity offta Investment Manufacturing capabilit	rojects
Continents of operations Oceania Asia Europe	Americas Africa Middle East	Types of technology/innovation: New component design Planning / deployment optimisa Robotics / automation	TRL: 6
Focus Areas: Balance of plant Installation costs Ops and mainten	ScaleUp enablers	 Vegetation management Fault detection / management Panel cleaning Asset Management Other 	

Solution description

The Concertina PV is a lightweight glass-less solar array designed for rapid deployment. Imagine windrows of solar arrays deployed across mounds providing a tilt to achieve optimal angle for energy generation. Utilising industry-leading semiflexible panels that are powerful, waterproof, lightweight, durable, and highly resistant to harsh conditions. It uses less than 50% of the materials, 40% Shipping volume & 30% install labour compared to conventional glass panel solutions.



Solution description

Advanced Nexo Technology 3D-prints energetic prefab construction elements for enhanced sustainability and efficiency. Key components include embedded renewable energy and durable sustainable materials. We offer Building-as-a-Service integration for scalability and cost-effectiveness, with rapid production enabled by automation. Our system includes EMS for efficient energy management, ensuring optimal performance and longevity.

009		Link to submission	
Submission Title:	PHNXX Modular Microgrid Systems	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title:	PHNXX Australia, VIC Wei-Chi Lee Co-founder and Chief Operating Officer	Technology solutio Other innovation Current or future solar PV Land for potential solar P Potential electricity o	1 / projects / projects // projects // projects // // // // // // // // // // // // //
Contact email:	weichi.lee@phnxx.io	Manufacturing capal	bility
Continents of operation	1:	Types of technology/innovation:	TRL: 9
Oceania Asia Europe	AmericasAfricaMiddle East	New component designPlanning / deployment optinRobotics / automation	nisation
Focus Areas:		Vegetation managementFault detection / manageme	nt
Balance of plan Installation cost Ops and mainte	ts ScaleUp enablers	 Panel cleaning Asset Management Other 	

Our solution integrates modular, mobile solar and battery-powered systems designed for quick deployment and scalability. We use patented prefabricated mounting, AI-driven site planning, and intelligent monitoring systems. Key components include angle-adjustable solar panels, advanced battery storage, and AI-based software for optimisation. We bring expertise in renewable energy, proven pilot performance, and a strong track record in improving operational efficiency across remote operations.

ID 665		Link to submission	
Submission Title:	Patented silver-free high efficiency solar cell technology to be implemented by manufacturers	Ask from a partner:	Offer to a partner:
Organisation name:	PV2+ GmbH	Other innov	
Geographic location:	Germany	Current or future sola	ar PV projects
Contact name: Contact title:	Katharina Braig COO/CFO	Land for potential so Potential electric Investme	ity offtake
Contact email:	katharina.braig@pv2plus.com	Manufacturing	capability
Continents of operation	1:	Types of technology/innovat	ion: TRL: 4-5
OceaniaAsiaEurope	 Americas Africa Middle East 	New component design Planning / deployment o Robotics / automation	
Focus Areas: Balance of plan Installation cost Ops and mainter	s ScaleUp enablers	 Vegetation managemen Fault detection / manag Panel cleaning Asset Management Other 	

Solution description

PV2+ can solve the silver issues the solar industry faces by uniquely substituting silver with copper with unprecedented cost-efficiency for mass production. Our solution secures the supply of raw materials for the solar industry, as copper is 1000 times more abundant than silver. This allows the emerging Australian solar industry to set itself up independently of conflicts over raw materials and ensures a short and secure supply chain. Recycled copper is abundant all over the world.

Submission Title:	SOLPOD - utility scale prefabricated solar solution	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email:	SOLPOD Australia, VIC James Larratt CEO / Co-Founder jamesl@solpod.com.au	Technology solution Other innovation Current or future solar PV Land for potential solar P Potential electricity o Investment Manufacturing capa	/ projects
Continents of operation	:	Types of technology/innovation:	TRL: 6
Oceania Asia Europe Focus Areas:	 Americas Africa Middle East 	 New component design Planning / deployment optin Robotics / automation Vegetation management Fault detection / management 	
Balance of plant Installation costs Ops and mainter	s ScaleUp enablers	Paul detection / managemen Panel cleaning Asset Management Other	in.

A Solpod encompasses 10 panels, which are folded flat, stacked, and packaged in containers. A 40' container can transport ~380 kWp, similar to shipping panels only. At site, our pods are deployable with a 5-minute cycle time by a 4-person team.

We are launching our new utility pod and manufacturing line in late 2024 with a Phase 1 capacity of 100 MW per annum.

We bring capacity across solar engineering, manufacturing, development, funding and operations.

ID 676		Link to submission	
Submission Title:	Modular Prefabricated Nano-Grid Solar System with Rapid Deployment	Ask from a partner:	Offer to a partner:
Organisation name:	SPD ENERGY PTY LTD	Other innov	
Geographic location:	Australia, NSW	Current or future sol	ar PV projects
Contact name: Contact title:	Steven Ducat Founder & CEO	Land for potential so Potential electric Investme Manufacturing	city offtake
Contact email: Continents of operation	steven@spd.energy	Types of technology/innova	
Oceania Asia Europe	Americas Africa Middle East	New component design Planning / deployment Robotics / automation	
Focus Areas: Balance of plan Installation cost	s ScaleUp enablers	Vegetation managemer Fault detection / manag Panel cleaning Asset Management Other	

Solution description

- Our modular nano-grid solar system revolutionises solar PV design, deployment, and operation.
- Advanced power electronics, intelligent energy management, and innovative structural and electrical interconnection solutions create a highly efficient, flexible, and scalable system.
- It significantly reduces installation costs, improves performance, and integrates modular battery storage.
- · Our software-defined platform dynamically optimises energy flows, ensuring optimal performance and reliability.

ID 662

Submission Title:	DHOOP AI: For Predictive Solar Panel Analysis and Maintenance	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title:	Blurgs Innovations Pvt Ltd India Abhishek Yadav Client Partnership Architect	Technology solution Other innovation Current or future solar PV p Land for potential solar PV p Potential electricity offt Investment Manufacturing capabil	rojects
Contact email: Continents of operation Oceania Asia	abhi.yadav@blurgs.com : Americas Africa	Types of technology/innovation: New component design Planning / deployment optimis	
Europe Focus Areas: Balance of plant Installation cost Ops and maintee	s ScaleUp enablers	 Robotics / automation Vegetation management Fault detection / management Panel cleaning Asset Management Other 	

Solution description

DHOOP AI uses advanced drone technology equipped with thermal cameras & AI/ML algorithms to perform solar panel inspections. It detects faults & anomalies, providing precise locations and actionable insights. Key components include AI-driven analysis, real-time monitoring, and a user-friendly interface, which collectively enhance operational efficiency & reduce maintenance costs. This approach supports large-scale installations, promoting sustainable & cost-effective green energy production.

ID 672		Link to submission	
Submission Title:	Sustainable production of Ammonia using Power-2-X initiative	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email:	DigiMesh Australia, QLD Anthony Asplin Systems Engineer / Director anthony@asplin.com.au	Technology s Current or future sol Land for potential so Potential electric Manufacturing	vation
Continents of operation Oceania Asia Europe Focus Areas: Balance of plan Installation cosi Ops and maintee	Americas Africa Middle East t costs Other LCOE reduction ts ScaleUp enablers	Types of technology/innovaNew component designPlanning / deploymentRobotics / automationVegetation managementFault detection / managementPanel cleaningAsset ManagementOther	optimisation

Solution description

Using commercial off-the-shelf products (to date), we've demonstrated real-time monitoring capability, power generation control, and community battery capture.

With our solution, a distributed communications / compute network could monitor and control community networks, provide immutable, verifiable, auditable energy provenance and emissions tracking, and provide real-time billing. This is an enabling function for monitoring carbon emissions and investing.

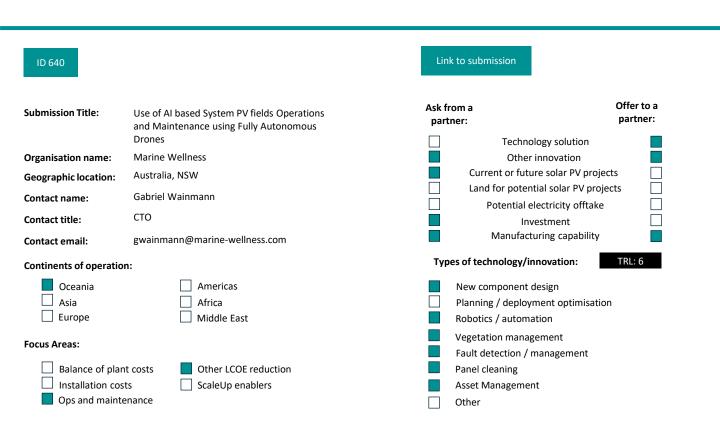
ID 659

Link to submission

Submission Title:	Daylight Photoluminescence Imaging of Utility Scale Solar Farms	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title:	Lab 360 Solar Pty Ltd Australia, NSW Thorsten Trupke CEO	Technology solut Other innovatio Current or future solar P Land for potential solar f Potential electricity Investment Manufacturing capa	n V projects V projects Offtake
Contact email: Continents of operation	trupke@gmail.com :	Types of technology/innovation	
Oceania Asia Europe Focus Areas: Balance of plant		 New component design Planning / deployment opti Robotics / automation Vegetation management Fault detection / managem Panel cleaning 	
Installation cost: Ops and mainter		Asset Management Other	

Solution description

We successfully demonstrated DPL imaging, including from drones, at multiple utility-scale PV farms, with unique outcomes, including quantitative degradation analysis. This project will develop stable commercial solutions, including thermal/visual imaging from ground-based robots and real-time module level IV monitoring. We are undisputed world leaders in DPL hardware development and in the semiconductor and device physics underlying luminescence data capture and analysis.



Solution description

- Autonomous drones with water-cleaning systems reduce manual labour and improve panel efficiency.
- Drones with high-resolution imaging detect issues early, minimising downtime.
- Drones provide continuous security monitoring.
- Al analyses data to predict failures and optimise maintenance.
- Crawling robots to clean panels without water.

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Submission Title:	Enhancing Solar PV Lifecycle Asset Management through Autonomous Drone Electroluminescence Mapping	Ask from a partner: Technology solutio	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email:	Quantified Energy Labs Pte. Ltd. ("QE-Labs") Singapore Dr. Yan WANG CEO and co-founder yan.wang@qe-labs.com	Other innovation Other innovation Current or future solar PV Land for potential solar PV Potential electricity off Investment Manufacturing capab	projects
Continents of operation Oceania Asia Europe Focus Areas: Balance of plant Installation cost: Ops and mainter	Americas Africa Middle East Costs Other LCOE reduction S ScaleUp enablers	Types of technology/innovation: New component design Planning / deployment optimit Robotics / automation Vegetation management Fault detection / management Panel cleaning Asset Management Other	

Our drone EL solution features a custom-built EL camera payload, autonomous flight control, AI-powered analytics, and a cloud-based digitaltwin platform. Among all PV module field inspection offerings, we provide the best value for money, achieving unparalleled benefits to the user in terms of diagnostic throughput, cost-effectiveness, and level of detail. Under this initiative and partnership, we will demonstrate holistic lifecycle quality management with a fully autonomous drone EL system.

ID 651		Link to submission	
Submission Title:	PVWatch: Al-driven automated detection, classification and prediction of faults in utility PV plants	Ask from a partner:	Offer to a partner:
Organisation name:	The University of New South Wales	Other innov	vation
Geographic location:	Australia, NSW	Current or future so	lar PV projects
Contact name: Contact title: Contact email:	Ziv Hameiri Professor ziv.hameiri@unsw.edu.au	Land for potential so Potential electric Investm Manufacturing	city offtake
Continents of operation	r.	Types of technology/innova	tion: TRL: 4-5
Oceania Asia Europe Focus Areas: Balance of plant Installation cost Ops and mainte	s ScaleUp enablers	 New component design Planning / deployment Robotics / automation Vegetation management Fault detection / management Asset Management Other 	optimisation nt

Solution description

We developed several ML algorithms that identify and classify degradation and failures and predict failures before they occur. These algorithms will be integrated into an automated maintenance decision-making platform that will reduce the LCOE of Australian PV plants. We bring an experienced team of researchers with strong backgrounds in PV and computer science and leading developers and asset management companies.

Submission Title:	PVChat - Future of Solar Asset Management - Conversational AI for PV plant Operation and	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email:	Maintenance UNSW / ForesightPV Australia, NSW Jim Joseph John Senior Research Fellow		ojects
Continents of operation	j.joseph_john@unsw.edu.au :	Types of technology/innovation:	, TRL: 6
Oceania Asia Europe Focus Areas: Balance of plant Installation costs Ops and mainter	s ScaleUp enablers	 New component design Planning / deployment optimisat Robotics / automation Vegetation management Fault detection / management Panel cleaning Asset Management Other 	tion

PVChat addresses inefficiencies in O&M monitoring software by introducing a conversational Al-powered platform. This intuitive interface enables users to access critical information with minimal training, including text response, real-time plots and detailed insights through cutting-edge modelling tools. PVChat empowers informed decision-making and drives cost-effective O&M activity recommendations, leading to improved energy production, reduced maintenance costs, and increased efficiency.

ID 648		Link to submission	
Submission Title:	Solar Farm Module Level Power Control for Lowering cost of maintenance and alternative to repowering	Ask from a partner:	Offer to a partner:
Organisation name:	CQSola	Other innor	vation
Geographic location:	Australia, QLD	Current or future so	lar PV projects
Contact name:	Tony Schirmer	Land for potential se	olar PV projects
Contact title: Contact email:	CEO tony@cqsola.com	Potential electri Investm Manufacturing	ent 🗌
Continents of operation	1:	Types of technology/innova	tion: TRL: 6
Oceania Asia Europe	 Americas Africa Middle East 	New component design Planning / deployment Robotics / automation	optimisation
Focus Areas:		Vegetation manageme Fault detection / mana	
 Balance of plan Installation cost Ops and mainter 	s ScaleUp enablers	Panel cleaningAsset ManagementOther	

Solution description

CQSola module-level power controllers detect bad panels and prevent the need to replace them. They also extract additional energy and reduce panel degradation.

The system also allows new panels to be used with old panels and provides a better alternative to re-powering sites where problem panels are reducing overall energy. As small as one string can be rolled out at a time.

Submission Title:	Remove Solar Inverter, with module power control. Build a Solar Farm with a DC Motor and Generator	Ask from a partner:	Offer to a partner:
Organisation name:	CQSola	Other innovation	
Geographic location: Contact name: Contact title: Contact email: Continents of operatior	Australia, QLD Tony Schirmer CEO tony@cqsola.com	Current or future solar PV projects Land for potential solar PV projects Potential electricity offtake Investment Manufacturing capability Types of technology/innovation:	
Oceania Asia Europe Focus Areas: Balance of plant Installation cost Ops and mainte	s ScaleUp enablers	 New component design Planning / deployment optimisation Robotics / automation Vegetation management Fault detection / management Panel cleaning Asset Management Other 	1

- We can supply our power controllers and data analytics software, which we've developed to detect issues with solar farms.
- Controllers can safely shut down the plant at the module level. This allows cheaper staff to commission, with all contacts being ELV until energising.
- Our module-level data collection system enables instant diagnostics, transforming maintenance from reactive and urgent to proactive and planned, providing a reliable and efficient solution for your solar farm.
- Modules last longer by all the energy in the module.

ID 681		Link to submission	
Submission Title:	Extending PV module lifespan and reducing LCOE by lowering module operating temperatures	Ask from a partner: Technology	Offer to a partner:
Organisation name:	ITP Renewables / INNOV8PV	Other inno	
Geographic location:	Australia, ACT	Current or future so	olar PV projects
Contact name: Contact title: Contact email:	Brett Hallam Senior Consultant bhallam@itpau.com.au	Land for potential so Potential electri Investm Manufacturing	icity offtake
Continents of operation	n:	Types of technology/innova	ation: TRL: 4-5
Oceania Asia Europe Focus Areas: Balance of plan Installation cos Ops and maintee	ts ScaleUp enablers	 New component design Planning / deployment Robotics / automation Vegetation manageme Fault detection / mana Panel cleaning Asset Management Other 	: optimisation nt

Solution description:

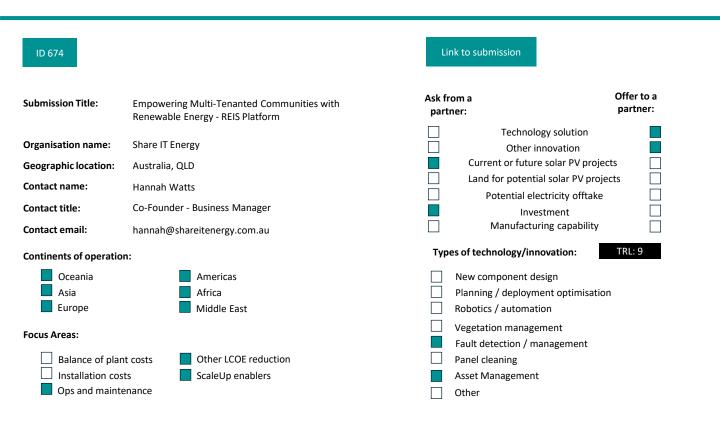
Module temperatures will be reduced through:

1) Improved tracker operation; and 2) Improved module design

Resources will include background intellectual property (IP), PVSyst access, a solar farm operator and tracker supplier who brings the required facilities and technical capability, additional in-house models for determining operating temperatures, prototype commercial PV modules, and local and international module manufacturers with module testing facilities and links to material suppliers.

Submission Title:	Elite Surface Protection	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email: Contact operation	Nanotech Coatings Australia, NSW John Malaspina CO - Founder CEO John@nanotechcoatings.com.au	Technology solution Other innovation Current or future solar PV pro Land for potential solar PV pr Potential electricity offta Investment Manufacturing capabilit Types of technology/innovation:	rojects
Oceania Asia Europe Focus Areas: Balance of plant Installation costs Ops and mainter	S ScaleUp enablers	 New component design Planning / deployment optimisa Robotics / automation Vegetation management Fault detection / management Panel cleaning Asset Management Other 	tion

Using Nanotech Coatings, the solar panels will stay cleaner for longer from Mould, Bacteria, Dirt and dust without having to clean the solar panels.



Solution description

The REIS platform is an advanced energy management solution optimising solar energy use in multi-tenanted sites. It integrates with existing or new solar infrastructure, using NMI-approved metering for accurate billing. Built-in algorithms distribute and sell renewable energy alongside grid power, maximising cost savings. Our software offers real-time monitoring, predictive maintenance, and dynamic load balancing to ensure the system's optimal performance and sustainability.

Submission Title:	AI-Based Solar Energy Forecasting	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email:	Solstice AI Australia, VIC Julian de Hoog Cofounder and CEO julian@solstice-ai.com	 Technology solution Other innovation Current or future solar PV proj Land for potential solar PV pro Potential electricity offtake Investment Manufacturing capability 	jects
Continents of operation		Types of technology/innovation:	TRL: 6
Cceania Asia Europe Focus Areas: Balance of plant	Americas Africa Middle East Costs Other LCOE reduction	 New component design Planning / deployment optimisati Robotics / automation Vegetation management Fault detection / management Panel cleaning 	on
Installation costs Ops and mainter	ScaleUp enablers	Asset Management Other	

We apply a new type of AI to satellite imagery to forecast cloud movement. This enables highly accurate solar generation forecasting, which optimises energy market participation and increases asset utilisation. Our forecasts can be readily applied to individuals or groups of assets in any location and are made available in real-time via API or any other preferred delivery mechanism.

ID 660		Link to submission	
Submission Title:	Innovative Solar Energy Management Platform with Energy Auto Bidding Feature	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email: Continents of operation	SynCo Global Australia, QLD Haoran Li IT Engineer/Project Manager harry.li@synco-global.org	Technolog Other inr Current or future Land for potential Potential elec Invest Manufacturi Types of technology/inno	solar PV projects
Oceania Asia Europe Focus Areas: Balance of plan Installation cos Ops and maintee	Americas Africa Middle East t costs Other LCOE reduction ts ScaleUp enablers	 New component des Planning / deployme Robotics / automatic Vegetation managen Fault detection / mai Panel cleaning Asset Management Other 	nt optimisation n nent

Solution description

Our solution integrates solar power monitoring and AI algorithms, using smart sensors, data analysis tools, machine learning models, and NILM technology for real-time energy flow management and auto-bidding. This enables detailed analysis and distribution of energy consumption, identifying and eliminating waste to reduce overall consumption. By managing solar system performance, we ensure optimal conditions and reduced downtime, improving solar usage efficiency.

Link to submission

Submission Title:	PV Maps: Al-driven soiling prediction and automated cleaning optimiser	Ask from a partner:	Offer to a partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email:	The University of New South Wales Australia, NSW Ziv Hameiri Professor ziv.hameiri@unsw.edu.au	Technology solution Other innovation Current or future solar PV project Land for potential solar PV project Potential electricity offtake Investment Manufacturing capability	
Continents of operation	:	Types of technology/innovation:	TRL: 4-5
Oceania Asia Europe	AmericasAfricaMiddle East	 New component design Planning / deployment optimisation Robotics / automation 	
Focus Areas: Balance of plant Installation cost: Ops and mainter	s ScaleUp enablers	 Vegetation management Fault detection / management Panel cleaning Asset Management Other 	

Solution description

We have developed ML-based models that use freely available data to predict soiling in any location worldwide. These models optimise cleaning by considering electrical losses, electricity selling prices, and cleaning costs. Our models support the design phase by estimating soiling losses in a specific location and determining the optimal cleaning frequency. By considering seasonal weather forecasts and changes in electricity prices and cleaning costs, the models help reduce O&M costs.

ID 653		Link to submission	
Submission Title:	Trinano Coating optimizes performance of every solar panel regardless of make, type, age or location	Ask from a partner: Technolog	Offer to a partner: y solution
Organisation name:	Trinano Technologies Pvt. Ltd.	Other inn	ovation
Geographic location:	India	Current or future	
Contact name: Contact title:	Dr Harsh Sethi CEO & Founder	Land for potential Land for potential Potential elect Invest	tricity offtake
Contact email:	harsh_sethi@tri-nano.co	Manufacturir	ig capability
Continents of operation	n:	Types of technology/inno	vation: TRL: 7-8
OceaniaAsiaEurope	 Americas Africa Middle East 	New component desi Planning / deploymen Robotics / automatio	nt optimisation
Focus Areas: Balance of plan Installation cost Ops and mainter	s ScaleUp enablers	 Vegetation managem Fault detection / mar Panel cleaning Asset Management Other 	

Solution description

Our coating is applied to the top glass surface of panels, thereby increasing surface area and creating a micro-structure similar to the Amazon raintree forest. Our 0.4 micron coating, thinner than human hair, traps light and directs it to underlying silica cells, generating more power and energy.

Due to the unique microstructure, particles like dust, oil, bird droppings, etc., don't stick to coated surfaces and can be easily cleaned with high-pressure air, a soft brush, or rain. It also reduces cell temperature to prolong panel life.

ID 675		submission	
Submission Title:	Decarbonising Remote Mines & Communities	Ask from a partner	Offer to a partner
Organisation name:	Energy Developments Pty Limited	Technology solution	
Geographic location:	Australia, QLD	Other innovation Current or future solar PV pro	
Contact name:	Melissa Te Ahuru	Land for potential solar PV pr	-
Contact title:	Head of Growth - Remote Energy	Potential electricity offta	ke 📃
Contact email	melissa.teahuru@edlenergy.com	Investment Manufacturing capabilit	EV
Cont	inents of operation	Focus Areas	
Oceania Asia Europe	Americas Africa Middle East		ther LCOE reduction caleUp enablers

Link to

Link to

Ops and maintenance

Overview

EDL is a pioneer in the development and operation of hybrid renewable microgrids. We have 50 power stations across Australia and are committed to decarbonising mines and remote communities. We are keen to work with companies that can help reduce construction costs and/or enhance the output of our solar facilities.



Submission Title:	Equans Solar & Storage AU - Large-scale solar EPC	Ask from a partner	Off pa
Organisation name: Geographic location: Contact name: Contact title: Contact email	Equans Solar & Storage AU (Bouygues Group) Australia, NSW Quentin Crancee Senior Project Engineer - Innovation Lead quentin.crancee@equans.com	Technology s Other innov Current or future sol Land for potential so Potential electric Investme Manufacturing	vation lar PV projects olar PV projects city offtake ent
Continents of operation		Focus Areas	
Oceania Asia	Americas Africa	 Balance of plant costs Installation costs 	Other LCO

Middle East



Offer to a partner

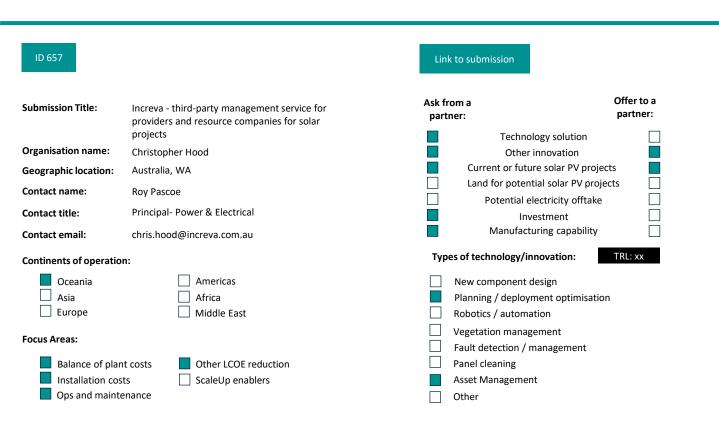
Overview

Europe

As a leading EPC focused on large-scale solar farm construction, we are always searching for new ways to improve our construction processes in regard to safety, quality and productivity.

Submission Title:	Greenova8 - GreenPay	Ask from a partner:	Offer to a partner:	
Organisation name: Greenova8 Geographic location: Pakistan Contact name: Ibrahim Afridi Contact title: Founder/CEO Contact email: Im.ibrahimafd19@gmail.com		Technology solution Other innovation Current or future solar PV proje Land for potential solar PV proj Potential electricity offtake Investment Manufacturing capability	vation	
Continents of operatior	1:	Types of technology/innovation:	TRL: 4-5	
Oceania Asia Europe Focus Areas: Balance of plant Installation cost Ops and mainte	s ScaleUp enablers	 New component design Planning / deployment optimisation Robotics / automation Vegetation management Fault detection / management Panel cleaning Asset Management Other 	n	

Greenova8 facilitates investment in solar photovoltaic projects, leveraging a digital platform that connects investors with sustainable energy initiatives. Our solution integrates blockchain for transparency, AI for personalised investment insights, and a user-friendly mobile app for seamless management. By democratising access to renewable energy investments, we drive down costs and scale up clean energy adoption, contributing to environmental sustainability and economic resilience.



Solution description

As part of our capability, we investigate and collaborate with solar system providers to demonstrate a system's capabilities, cost-effectiveness, deployment efficiency, and flexibility over the life cycle. Increva provides scope definition and engineering assessments that are used to form tender packages, which clients use for contractor engagement and supplier selection for projects. We also offer project management services on behalf of owners or contractors.

Link	to	SIL	hm	155	ini
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Submission Title:	Integrated Vertical Solar System	Ask from a partner:	Offer to a partner:
Organisation name: Innovative Technologies Pty Ltd Other innovation Geographic location: Australia, NSW Current or future solar F Contact name: Jack Lyons Land for potential solar Contact title: Managing Director Investment		 Technology solution Other innovation Current or future solar PV proje Land for potential solar PV proj Potential electricity offtake Investment Manufacturing capability 	ects
Continents of operation	:	Types of technology/innovation:	TRL: 4-5
Oceania Asia Europe Focus Areas:	 Americas Africa Middle East 	 New component design Planning / deployment optimisatic Robotics / automation Vegetation management Fault detection / management 	งท
Balance of plant Installation costs Ops and mainter	ScaleUp enablers	 Panel cleaning Asset Management Other 	

Our solution consists of a non-combustible integrated modular system that fits together to securely attach any number of solar panels to the vertical wall surface area of any building. The system's central watertight connector channel securely houses the electrical wiring from all of the attached vertical solar panels and the microinverters for each solar panel, creating a safe AC system that eliminates any potential electrical short or potential electrical fire.

ID 663		Link to submission
Submission Title:	Integrated Vertical Solar System	Ask from a Offer to a partner: partner:
Organisation name: Geographic location: Contact name: Contact title: Contact email Continents of operation	Innovative Technologies Pty Ltd Australia, NSW Jack Lyons Managing Director info@solar-shutters.com.au n:	Technology solution Other innovation Current or future solar PV projects Land for potential solar PV projects Potential electricity offtake Investment Manufacturing capability
Oceania Asia Europe Focus Areas: Balance of plan Installation cos Ops and maintee	ts ScaleUp enablers	 New component design Planning / deployment optimisation Robotics / automation Vegetation management Fault detection / management Panel cleaning Asset Management Other

Solution description

Our global "Patent Pending" system has untapped potential to offer significant amounts of renewable solar power from the vertical surface areas of buildings, providing a sustainable supplementary source of renewable electricity and reducing the usage and associated costs of main-grid electricity.

Our system incorporates functionality and aesthetics and is manufactured from non-combustible and recyclable modular material, which securely houses solar panels and electrical components.

ID 649		Link to submission	
Submission Title:	REplace	Ask from a partner:	Offer to a partner:
Organisation name:	REplace	Technology so Other innova	
Geographic location:	Israel	Current or future sola	r PV projects
Contact name:	Matias Sigal	Land for potential sola	
Contact title:	CEO & Co-Founder	Investmer	·
Contact email:	tomas.guilman@renewableenergy.place	Manufacturing c	apability
Continents of operatio	n:	Types of technology/innovati	on: TRL: 6
Oceania	Americas	New component design	
🗌 Asia	Africa	Planning / deployment o	ptimisation
Europe	Middle East	Robotics / automation	
Focus Areas:		 Vegetation management Fault detection / manage 	
Balance of plar	nt costs 🗌 Other LCOE reduction	Panel cleaning	
Installation cos	sts ScaleUp enablers	Asset Management	
Ops and mainte	enance	Other	

REplace transforms renewable energy development with a one-click solution for optimal project locations, reducing the current 80% project failure rate and maximising ROI. Our advanced algorithms analyse 40+ parameters from public and proprietary sources, empowering developers to accelerate sustainable energy deployment with informed decisions.

Solar ScaleUp Challenge Powered by **ARENA**