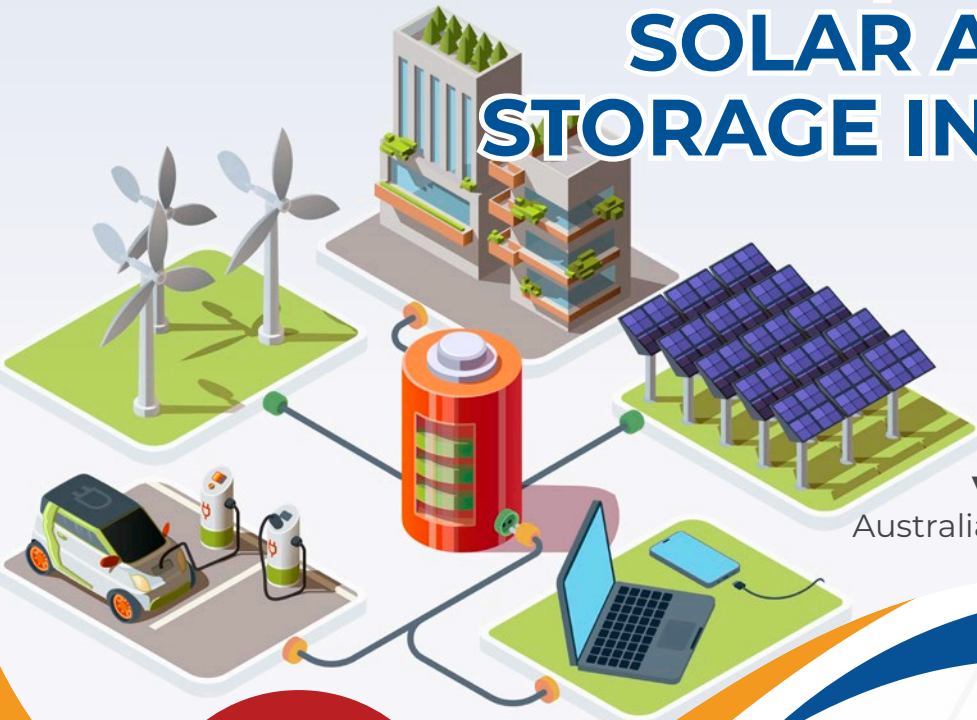


2ND VIRTUAL POWER PLANTS, MICROGRID, LARGE SCALE SOLAR AND ENERGY STORAGE INNOVATIONS FORUM



Main Forum:

29 - 30 November 2021

Post-Forum Workshop:

1 December 2021

Venue: Virtual Forum (via Zoom)
Australian Eastern Daylight Time (AEDT)

**REGISTER
BY 5 OCT 2021
TO ENJOY
AU\$400 OFF**

5 Powerful Reasons To Attend This Important And Timely Forum

1

Profit from new opportunities which VPPs, new energy storage and renewable energy innovations usher in

2

Receive the latest updates on government policies, incentives on VPPs, DER and decarbonization

3

Discover innovative products and solutions in the smart grid, metering, and renewable energy equipment sectors

4

Learn from renowned exemplars in the VPP, renewable and battery storage space on how they go about in moving ahead of the curve

5

Connect with an influential community of electric power professionals, smart grid suppliers, regulators, market makers, commercial and retail users at one strategic platform



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2ND VIRTUAL POWER PLANTS, MICROGRID, LARGE SCALE SOLAR AND ENERGY STORAGE INNOVATIONS FORUM

BUILDING A STABLE POWER GRID AND SUSTAINABLE ENERGY WITH VIRTUAL POWER PLANTS

29 Nov - 1 Dec 2021
Virtual Forum (via Zoom) | Australian Eastern Daylight Time (AEDT)



GLOBAL THOUGHT LEADERS & KEY SPEAKERS INCLUDE:



GREGORY ABRAMOWITZ
Head of Orchestration Platform and Operations
AGL Energy



AGL'S VPP Innovation: How AGL'S VPP Is Disrupting The Energy Market Scene



ALAN REID
Head Of Operations
Reposit Power



How Reposit's VPP Solves Grid Challenges That Arise From Wholesale Market Volatility, Peaks In Demand And Poor Power Quality



LAURIE CURRO
Head of Power Systems
Horizon Power



Horizon Power's Case Study: How Australia's First Remote Microgrid Uses Renewable Hydrogen Generation To Supply Over 50% Of Energy Needs



ED CHAN
Director
Australian Energy Market Commission (AEMC)



Why Should Technical Integration Be The First Priority In Integrating Distributed Energy Resources (DER)



LACHLAN BLACKHALL
Head, Battery Storage, and Grid Integration Program
ANU College of Engineering and Computer Science



Battery Storage And Grid Integration: VPP Capabilities And New Models Of Storage Deployment And Customer Representation



DR SCOTT DWYER
Research Principal,
Institute for Sustainable Futures (ISF)
University of Technology Sydney



How MyTown Microgrid Takes An Innovative Approach To Microgrid Feasibility Using Cutting Edge IoT Technology



ANDREW BLAKERS
Professor
Australian National University



Australia's Rapid Solar & Wind Deployment And Implications For Electricity Prices And Emissions Reductions



DARREN GLADMAN
Director, Distributed Energy
Clean Energy Council



Implications Of The New Framework That Allows DNSPs To Take Customers Off Grid



CHRIS TWOMEY
Head of Operations
Elliott Green Power



Nevertire Solar Farm: Insights From A Large-Scale Solar Project To Provide Affordable, Reliable And Sustainable Electricity For Australians



ANDREW PINTAR
Lead, Microgrid Commercialisation & Strategy
Monash University



Australia's First And Largest Hybrid Energy Storage System As Part Of Microgrid That Can Cover 20 Buildings



JAMES EGGLESTON
Senior Researcher
ARENA

How Prosumer Can Lead To Network Effects Of Distributed Energy Resources

REGISTER BY 5 OCT 2021 AND AVOID
PRICE INCREASE OF UP TO AU\$400

THE FORUM AT A GLANCE

DAY 1: MONDAY, 29 NOVEMBER 2021

MAIN FORUM

- **The Great Energy Transition:** Outlook, Opportunities, Challenges And Regulations In A Transitioning Energy Sector Beyond 2021
- **Award Winning Virtual Power Plant:** How Reposit Solves Grid Challenges That Arise From Wholesale Market Volatility, Peaks In Demand And Generation
- **National Energy Laws Amendment:** Implications Of The New Framework That Allows DNSPs To Take Customers Off Grid
- **AGL's Virtual Power Plant** - How AGL'S VPP Can Dispatch Up To 12MWh Of Stored Energy And Managed By A Cloud-Based Control System
- **Horizon Power Case Study: Australia's First Remote Microgrid Using Renewable Hydrogen Generation** To Supply Over 50% Of Energy Needs

DAY 2: TUESDAY, 30 NOVEMBER 2021

MAIN FORUM

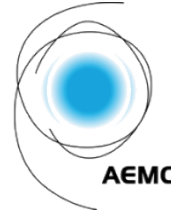
- **Prosumer Led Network Effects** Of Distributed Energy Resources
- **Integrating Distributed Energy Resources (DER):** Why Should Technical Integration Be The First Priority
- **Battery Storage And Grid Integration:** VPP Capabilities And New Models Of Storage Deployment And Customer Representation
- **Insights From A Large-Scale Solar Project** To Provide Affordable, Reliable And Sustainable Electricity For Australians
- **How Western Australia's First Thermal WTE Project Plans To Divert Up To 90% Of The Volume Of Waste** Headed For The Landfills

DAY 3: WEDNESDAY, 1 DECEMBER 2021

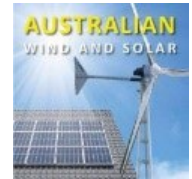
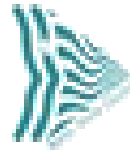
POST - FORUM WORKSHOPS

- **Workshop A: Smart Grid Solutions To Address The Rise Of Microgrids**
- **Workshop B: Customer-Owned Microgrids**
- **Workshop C: Solar PV Systems: The Compliant And Non-Compliant Installations**

PARTICIPATING COMPANIES INCLUDE:



Australian National University



CLEAN ENERGY COUNCIL



MONASH University

MONASH ENERGY INSTITUTE



FRASERS PROPERTY



MONASH University



Power Ledger



MONASH ENERGY INSTITUTE

HEAR FROM KEY ENERGY EXPERTS

TOP-NOTCH SPEAKERS LINE UP INCLUDING:



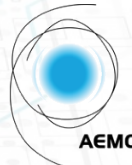
DARREN GLADMAN
Director, Smart Energy
Clean Energy Council



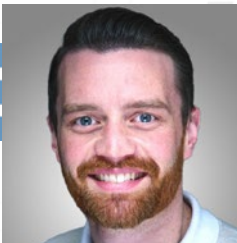
DR ANAND BHATT
Research Scientist,
Advanced Energy Storage
Technologies
CSIRO Energy, CSIRO



ED CHAN
Director
**Australian Energy
Market Commission**



ARIEL LIEBMAN
Director
**Monash Energy Institute
(MuEI)**



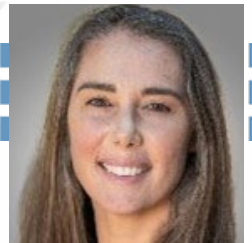
ALAN REID
Head of Business Relation
Reposit Power



DR SCOTT DWYER
Research Principal
Institute for Sustainable
Futures (ISF)
**University of Technology
Sydney**



ADAM FALZON
Managing Director
**Australian Wind
And Solar**



VANESSA RATARD
Senior Project Manager
Ekistica



ANDREW BLAKERS
Professor
**Australian National
University**



GREGORY ABRAMOWITZ
Head of Orchestration
Platform and Operations
AGL Energy



LAURIE CURRO
Head of Power Systems
Horizon Power



ANDREW PINTAR
Manager, Microgrid
Strategy &
Commercialisation
Monash University



HEAR FROM KEY ENERGY EXPERTS

5

TOP-NOTCH SPEAKERS LINE UP INCLUDING:



KAPZ MALHOTRA
General Manager,
Customer and Innovation
ATCO, Gas Division,
Australia



EDUARDO ROBAINA
EVP Operations
Add Energy



LACHLAN BLACKHALL
Entrepreneurial Fellow and
Head, Battery Storage and
Grid Integration Program
ANU College of Engineering
and Computer Science



Australian
National
University



JULIA HALIOUA
Sustainability Advisor
Fraser's Property
Australia



CHRIS TWOMEY
Head of Operations
Elliott Green Power



JAMES EGGLESTON
Senior Researcher
ARENA



DR DEEPIKA MATHUR
Senior Research Fellow,
Northern Institute
Charles Darwin
University



GABRIELLE KUIPER
Guest Contributor
Institute for Energy
Economics and Financial
Analysis (IEEFA)



VANYA KUMAR
Executive Director, Commercial
and Investment Attraction
Department of Environment,
Land, Water and Planning



Environment,
Land, Water
and Planning

PAST SPONSOR OF CLARIDEN GLOBAL'S VIRTUAL POWER PLANTS FORUM



2019

PAST PARTICIPATING COMPANIES

Clariden Global's Virtual Power Plants, New Energy Storage and Renewable Energy Innovations Global Summit 2019 in Australia has garnered energy professionals from various leading companies including:

ABB
AGL Energy
Air Future Group
Ausnet Services
Australian Energy Market Commission (AEMC)
Australian Energy Market Operator (AEMO)
Australian National University
Balance Utility Solutions
Byron Shire Council
Central Coast Council
City West Water
Clean Energy Council
CleanCo Queensland

CS Energy
CSIRO
Cummins South Pacific
DNV GL
Energetics
Energus
Energy Australia
Energy Safe Australia
European Energy
Flow Power
Green Guys Solar
GWMWater
Hanwha Energy Retail Australia
Horizon Power

Lendlease
Monash University
New Energy
Osaka Gas Australia
Power Ledge
RAA
Reposit Power
RMIT University
Silverpond
Snowy Hydro
United Energy
Water Corporation
Woodside Energy
Yurika

HEAR WHAT ATTENDEES GOT TO SAY ABOUT CLARIDEN GLOBAL'S VIRTUAL POWER PLANT FORUM



All the speakers were capable and knowledgeable!

*Service Solutions Manager,
Cummins South Pacific*



Amazing caliber of speakers

Principal Engineer, DNV GL

The venue was really nice and there was a good variety of attendees and speakers.

Energy Manager, Central Coast Council



There were many new ideas and good speakers. I appreciated hearing about the updates on what the industry is working on.

*Principal Analyst,
Australian Energy Market Operator*



FORUM HIGHLIGHTS



**AGL'S VPP INNOVATION:
HOW AGL'S VPP IS
DISRUPTING THE ENERGY
MARKET SCENE**



**HOW REPOSIT'S VPP SOLVES GRID
CHALLENGES THAT ARISE FROM
WHOLESALE MARKET VOLATILITY,
PEAKS IN DEMAND AND POOR
POWER QUALITY**



**BATTERY STORAGE AND GRID
INTEGRATION: VPP CAPABILITIES
AND NEW MODELS OF STORAGE
DEPLOYMENT AND CUSTOMER
REPRESENTATION**



**HOW PROSUMER CAN
LEAD TO NETWORK
EFFECTS OF DISTRIBUTED
ENERGY RESOURCES**



**WHY SHOULD TECHNICAL
INTEGRATION BE THE FIRST PRIORITY
IN INTEGRATING DISTRIBUTED
ENERGY RESOURCES (DER)**



**AUSTRALIA'S FIRST AND
LARGEST HYBRID ENERGY
STORAGE SYSTEM AS PART OF
MICROGRID THAT CAN COVER 20
BUILDINGS**



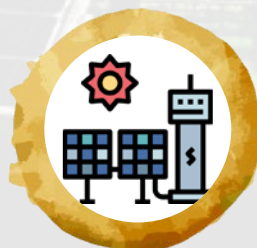
**HOW MYTOWN MICROGRID TAKES
AN INNOVATIVE APPROACH TO
MICROGRID FEASIBILITY USING
CUTTING EDGE IOT TECHNOLOGY**



**AUSTRALIA'S RAPID SOLAR & WIND
DEPLOYMENT AND IMPLICATIONS
FOR ELECTRICITY PRICES AND
EMISSIONS REDUCTIONS**



**IMPLICATIONS OF THE NEW
FRAMEWORK THAT ALLOWS
DNSPS TO TAKE CUSTOMERS
OFF GRID**



**NEVERTIRE SOLAR FARM:
INSIGHTS FROM A LARGE-SCALE
SOLAR PROJECT TO PROVIDE
AFFORDABLE, RELIABLE AND
SUSTAINABLE ELECTRICITY FOR
AUSTRALIANS**



**HORIZON POWER'S CASE STUDY:
HOW AUSTRALIA'S FIRST REMOTE
MICROGRID USES RENEWABLE
HYDROGEN GENERATION TO
SUPPLY OVER 50% OF ENERGY
NEEDS**

DISCOVER

WHO YOU WILL MEET AT THE FORUM

8

Who You Will Meet:

SENIORITY LEVEL OF DELEGATES

40%

Vice President / Director /
General Manager

20%

Board / C-Level /
President / Managing
Director

20%

Head of
Department

20%

Manager



Industries (including but not limited to):

- Utilities
- Renewables & The Environment
- Government Energy Departments
- Electrical/Power Engineering
- Power Equipment
- Energy Storage/Batteries
- Telecoms (Utilities)
- Biomass/Hydro/Geothermal/Wave Energy
- Gas/Gas to Liquids/Hydrogen
- Cloud/ICT Solution Providers
- Clean Energy Providers
- City Councils
- Enterprises, data centers and farms participating in microgrids, VPPs and the Internet of Energy

In the Roles of (including but not limited to):

- Asset Manager
- CEO
- Chairman
- City Councilor, Utilities
- Co-Founder
- Commercial Manager
- CTO
- Director
- Director, Strategic Development
- Distribution Manager
- Engineering Manager
- General Manager, Asset Management
- General Manager, Generation
- Head, Analytics & Artificial Intelligence
- Head, Billing
- Head, Blockchain Trading
- Head, Business Development
- Head, Cybersecurity
- Head, Energy Storage Systems
- Head, Finance
- Head, Power Development
- Head, Projects
- Head, Renewables
- Head, Transmission Line Route
- Inverter Systems Manager
- Manager, Meter Strategy
- Manager, Network Operations
- Manager, Network Relationships and Assurance
- Manager, New Energy
- Manager, Power Market Analysis
- Manager, Regulatory Strategy
- Manager, Transmission & Distribution
- Managing Director
- Power Station Manager
- President
- Procurement Director
- Vendor Manager

HERE ARE

10 REASONS WHY YOU SHOULD ATTEND THE FORUM

9

1

Participate at **Australia's pre-eminent summit dedicated to commercializing new opportunities** arising from the advent of VPPs, the impact of AI & blockchain on the power sector and the rise of prosumers

2

Understand the **operational and strategic considerations** needed to be made before jumping on the smart electricity bandwagon

3

Learn from the **successful strategies and experience of power companies** that have successfully started on VPPs, smart grids, energy storage and hydrogen energy technologies

4

Obtain the **latest updates on government policies and incentives** on VPPs, DERs and decarbonization

5

Discover an exciting showcase of **innovative products and solutions in the smart grid and metering sectors** that can help serve the new needs of power companies

6

Rethink and rebuild **current market system** to better regulate energy supply and demand

7

Learn best practices, form profitable **partnerships, meet new customers and catch-up with peers** in the smart electricity industry

8

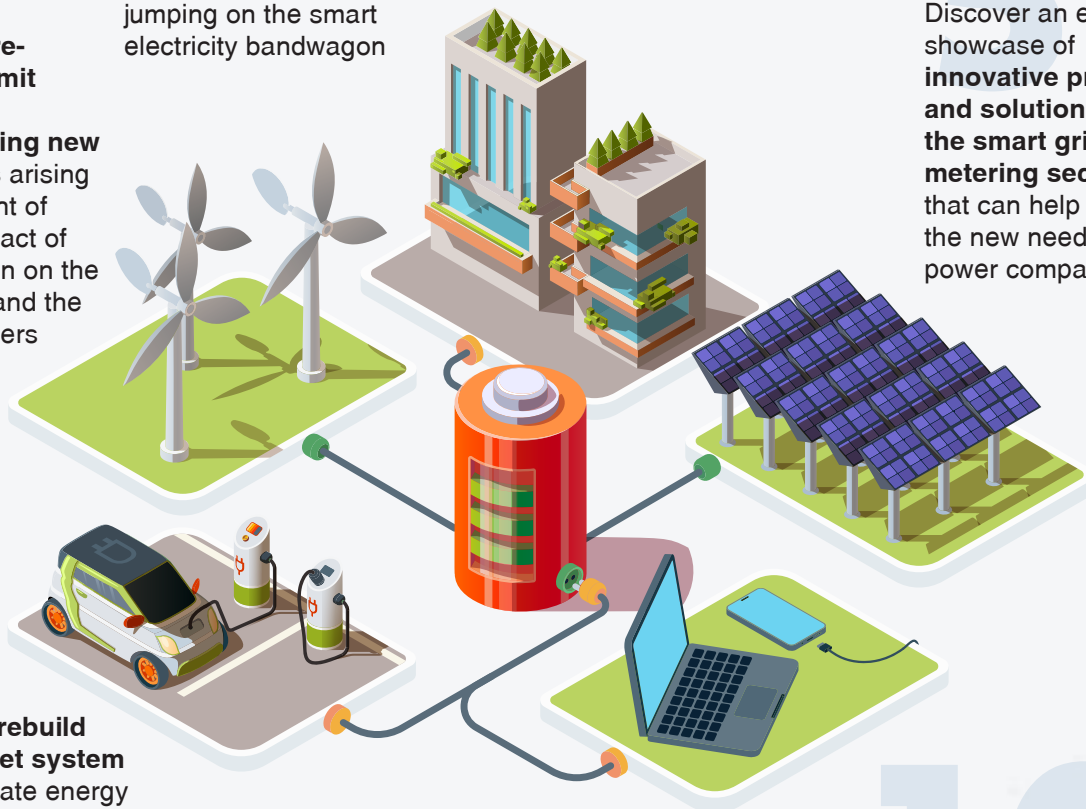
Prepare for **peer-to-peer electricity trading through blockchain**, as renewable energy technology becomes more affordable

9

Find out new details and profit from **current installed projects, technologies, and processes** for large scale, commercial and microgrid applications of energy storage in ANZ and around the world

10

Connect with an **influential community of electric power professionals, smart grid suppliers/service providers, government regulators, city councils, and special interest groups in renewables and smart energy** to do business and build a more sustainable future for the power industry



MAIN FORUM AGENDA

DAY 1

10:00 **Welcoming Speech, Opening Remarks & Thank You Sponsor Speech By Forum Producer**

10:10 **Welcome Address By Forum Chairperson**



ARIEL LIEBMAN, PHD
Director
Monash Energy Institute



KEYNOTE

10:15 **Keynote**
The Great Energy Transition: Outlook, Opportunities, Challenges And Regulations In A Transitioning Energy Sector Beyond 2021

The pandemic has the potential to change the priority of government policies and budgets, developers' investment decisions and the availability of financing through 2025. This casts a great deal of uncertainty on a market that had been expanding at a rapid pace in the previous five years. This session will share what are the resilience of renewables that will be tested beyond 2021 with regulatory changes and compliance challenges taking into consideration of the digital disruption from new utility business models.

VIRTUAL POWER PLANT IMPLEMENTATIONS, INNOVATIONS AND FUTURE

10:50 **Clean Energy Future: How Can The Victorian Government Make Renewable Energy Zones A Success?**

Victoria is moving towards a future powered by renewable energy and we need to rethink the way we bring energy to communities. Victoria has legislated a new target of 50% renewable energy generation by 2030 and is rapidly adding renewable energy generation, which is cheaper to build than new coal plants. Victoria's coal-fired generators will begin closing from 2029. Victoria relies on an electricity network designed to move electricity from coal-fired power plants in the Latrobe Valley around the state. Many renewable energy sources like wind and solar farms are located in many parts of the state such as Western Victoria, Great South Coast, as well as in the Gippsland region. This means we need to build new electricity links to share this energy across Victoria as well as into other states. To expand renewable energy in Victoria, the government and private sector need to work together. Renewable energy can bring many benefits including reliability, affordability and reduced emissions.



VANYA KUMAR
Executive Director, Commercial
and Investment Attraction
Department of Environment, Land, Water and Planning



11:25 **Case Study**
Award Winning Virtual Power Plant: How Reposit Solves Grid Challenges That Arise From Wholesale Market Volatility, Peaks In Demand And Generation?

A Canberra virtual power plant (VPP) has been recognized by Engineers Australia for its solar battery project. Act's Reposit Power received the accolade for its technology, which makes the electricity system cheaper, cleaner and more reliable. Reposit Power won the Sir William Hudson Award. This is the highest honor awarded for a project in the Australian Engineering Excellence Awards. Because it allows energy utilities to tap into consumer's solar batteries the VPP shores up the grid with secure renewable energy. This session will share an update of phase 2 of the project.



ALAN REID
Head Of Operations
Reposit Power



11:55 **Case Study**
Pathway To Net Zero Emissions By 2040: Electricity Prices, Emissions And Australia's Rapid Solar/Wind Deployment

Australia is installing solar and wind faster than almost any other country. More solar & wind is reducing BOTH prices and AND emissions, so the net cost of emissions reductions is less than zero. A 100% renewable electricity grid will be more robust and reliable than at present.



ANDREW BLAKERS
Professor
Australian National University



12:30 **Lunch Break**

13:30 **100% Renewable Microgrid**
Horizon Power's Case Study: Australia's First Remote Microgrid Using Renewable Hydrogen Generation To Supply Over 50% Of Energy Needs

Traditionally, remote communities are powered by diesel-generated microgrids. With this project, Horizon Power is testing if renewable hydrogen energy can be used to produce baseload power. The power supply for the hydrogen demonstration plant will come from a dedicated solar farm, with the plant expected to generate 526MWh per year, enough power for up to 100 homes.

Horizon Power's Onslow system is set to be the home of Australia's largest and most advanced distributed energy microgrid, aiming to supply more than 50 per cent of energy needs with renewable power. The remote microgrid market is expected to increase to over A\$20 billion annually by 2024.



LAURIE CURRO
Head of Power Systems
Horizon Power



MAIN FORUM AGENDA

DAY 1

14:05 *Case Study*

AGL's Virtual Power Plant - How AGL'S VPP Can Dispatch Up To 12MWh Of Stored Energy And Managed By A Cloud-Based Control System

AGL's VPP project comprises the installation and orchestration of a 5MW VPP consisting of up to 1,000 residential energy storage systems installed behind the meter, and capable of dispatching up to 12MWh of stored energy. It recently successfully completed Stage 2 of the three-stage deployment of energy storage systems. 312 batteries had been installed in customer's homes and a new ESS technology energy storage system rolled out. Early trials showed that the VPP can respond as expected to both planned and unplanned dispatch events and has the potential to respond rapidly enough to participate in the 6 second contingency FCAS market. Stage 3 of the project will focus on completing the remainder of the 1,000 installations and further demonstration of VPP functionality for a number of network service and wholesale participation use cases.



GREGORY ABRAMOWITZ
Head of Orchestration Platform and Operations
AGL Energy



15:15 *Case Study*

Evaluating The Results From Installing 1 MWh Behind-The-Meter Energy Storage System On A University Campus With 20 Buildings

- Examining the system design of the first and largest hybrid energy storage system in Australia
- Developing a platform to control a wide range of distributed energy resources, including 1 MWh energy storage across 20 buildings
- Understanding and quantifying the value gained from installing behind-the-meter storage and how it can be deployed to the rest of the state



ANDREW PINTAR
Manager, Microgrid Strategy & Commercialisation
Monash University



15:45 *Case Study*

ATCO's Hydrogen Microgrid Journey

Approximately 1000 solar panels have been installed at the Jandakot Operations Centre, capable of generating 300kW of power, which is approximately two and half times the daily power requirements of the facility.

The CEIH's design stores 500kWh of energy in batteries, with excess renewable energy utilised to power an electrolyser for the production of hydrogen which can be stored or injected into the micro-grid for testing, as a direct fuel or blended with natural gas. The use of excess renewable energy, which has traditionally been lost, sets this project apart from other hydrogen trials currently underway in Australia.



KAPZ MALHOTRA
General Manager, Customer and Innovation
ATCO, Gas Division, Australia



16:15

Closing Remarks By Forum Chairperson



ARIEL LIEBMAN, PHD
Director
Monash Energy Institute



14:40 *MicroGrid In Australia*

National Energy Laws Amendment: Implications Of The New Framework That Allows DNSPs To Take Customers Off Grid

A Stand-Alone Power System (SAPS) is an electricity supply arrangement that is not physically connected to the national grid. This includes microgrids, which supply electricity to multiple customers, and individual power systems, which supply electricity to a single customer.

Technological developments, and the falling costs of renewable generation and batteries, are making SAPS an increasingly viable way of supplying customers. When parts of the distribution network need to be upgraded, it may now be more efficient to service a group of customers via a SAPS rather than proceed with the upgrade.

SAPS are not generally captured under the national electricity frameworks and are currently subject to jurisdictional legislative frameworks that vary in their comprehensiveness. This can result in a preference for network upgrades over SAPS, even where the SAPS may be the most efficient option.



DARREN GLADMAN
Director, Distributed Energy
Clean Energy Council



MAIN FORUM AGENDA

DAY 2

10:00 **Welcoming Speech, Opening Remarks & Thank You Sponsor Speech By Forum Producer**

10:10 **Welcome Address By Forum Chairperson**

 **ARIEL LIEBMAN, PHD**
 Director
 Monash Energy Institute



Moderator:

 **ARIEL LIEBMAN, PHD**
 Director
 Monash Energy Institute




Panelists:

 **ED CHAN**
 Director
 Australian Energy Market Commission (AEMC)




 **DR SCOTT DWYER**
 Research Principal, Institute for Sustainable Futures (ISF)
 University of Technology Sydney



 **DR ANAND BHATT**
 Research Scientist and Team Leader
 CSIRO



 **VANESSA RATARD**
 Senior Project Manager
 Ekistica




 **ADAM FALZON**
 Managing Director
 Australian Wind And Solar



 **EDUARDO ROBAINA**
 EVP Operations
 Add Energy



 **GABRIELLE KUIPER**
 Guest Contributor
 Institute for Energy Economics and Financial Analysis (IEEFA)



12:15 **Lunch Break**

INNOVATIONS IN GRID SCALE ENERGY STORAGE: GROWTH AND DEVELOPMENTS

13:15 **Battery Storage And Grid Integration: VPP Capabilities And New Models Of Storage Deployment And Customer Representation**

The Battery Storage and Grid Integration Program is taking a holistic, transdisciplinary approach to the development, integration, operation and optimisation of energy storage in electricity grids and electricity markets globally. Issues of energy equity and justice must be considered alongside issues of energy reliability and energy security as we transition our electricity sector away from coal-fired power generation towards a grid primarily powered by renewable generation and energy storage.

 **LACHLAN BLACKHALL**
 Entrepreneurial Fellow and Head, Battery Storage and Grid Integration Program,
 Research School of Engineering
 ANU College of Engineering and Computer Science



NEXT STEPS IN VIRTUAL POWER PLANTS (VPP)


10:15 **Integrating VPP Into Mainstream Electricity AEMO Virtual Power Plant Demonstrations: Transforming A Scalable VPP Market Participation**



The Australian Energy Market Operator (AEMO) has published its first knowledge sharing report under its landmark virtual power plant (VPP) demonstrations program, which is intended to provide insights into the scalability and network services potential of VPPs. The session will share insight on how the South Australia-based Tesla-Energy Locals VPP responded to price signals and frequency level and helps further understand the benefits consumers can have from participating in VPPs.

10:50 **Distributed Energy Resources (DERS) Prosumer Led Network Effects Of Distributed Energy Resources**

Energy crisis, economic and environmental concerns have led the way to prosumer-based electricity market where consumers and utilities can participate in market operations for economic benefits. Distributed energy resources and energy storage on prosumer facilities can provide significant financial savings for the consumer and grid support for the utilities. This session will cover what are the latest trend and benefits around this area.

 **JAMES EGGLESTON**
 Senior Researcher
 ARENA

11:25 **Panel Discussion Integrating Distributed Energy Resources (DER): Why Should Technical Integration Be The First Priority**

This discussion will cover what can be learnt from the integration of DER in Australia so far and how it might better inform Australia's investment program. Discuss will cover from technical, regulatory and market integration perspectives on why technical integration is the first priority or should it be first priority. Is Technical integration work vital to support consumer and investor confidence in DER in Australia? How can it encompass the quality of DER products and installations, integration into the distribution grid and providing certainty of return on investment?

MAIN FORUM AGENDA

DAY 2

13:50 **MyTown Microgrid Heyfield: Innovative Local Energy System Feasibility Study**

MyTown Microgrid is an innovative, multi-year, multi-stakeholder project undertaking a detailed data-led feasibility study for the historic town of Heyfield.

\$1.8 million from the Federal Regional and Remote Communities Reliability Fund and \$100,000 from the Latrobe Valley Authority was granted to the project partners to undertake a study, testing what local energy solution is feasible and desirable for the town.

The Heyfield Community Resource Centre, Wattwatchers Digital Energy, and the University of Technology Sydney (UTS) are leading the project. More and more communities are taking control of their own energy supply in Australia. Spurred by new, affordable, clean technology options, these communities are part of a global movement changing the way electricity is generated, transmitted, stored, and used. Localized solutions empower communities to become resilient and adapt to crisis situations

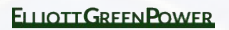
Assessment and design will be built on a platform of deep community engagement and capacity building. The objective is a better energy future for the people of Heyfield, and a role model for other communities.



DR SCOTT DWYER
 Research Principal, Institute for Sustainable Futures (ISF)
 University of Technology Sydney



CHRIS TWOMEY
 Head of Operations
 Elliott Green Power



15:25 **Case Study: Sustainable Future In End Of Life Management For Solar Panels**

Installing solar panels is an easy way to lower your carbon footprint and cut electricity bills. But our recent research found there are many incentives to remove them prematurely, adding to Australia's massive waste problem.

Researchers predict Australia will accumulate one million tonnes of solar panel waste by 2047 - the same weight as 19 Sydney Harbour Bridges.

But this number is likely to be higher, as we found people often choose to remove panels after just 10 to 12 years of use. This is much earlier than their estimated end-of-life age of 30 years (and potentially older).

Unfortunately, recycling is just a small part of the solution. So why is this happening, and what can we do about it?



DR DEEPIKA MATHUR
 Senior Research Fellow, Northern Institute
 Charles Darwin University



RENEWABLE ENERGY INNOVATIONS

14:25 **Case Study: Net Zero Energy Demand Homes**

Net Zero Energy Demand homes have the potential to reduce energy costs for homeowners and residents while also reducing emissions through deploying energy efficiency, demand management and renewable energy in new build houses. While this needs to be done rapidly it also needs to be done in a measured way that does not compromise the grid, nor put substantial additional pressures on housing affordability.



JULIA HALIOUA
 Sustainability Advisor
 Frasers Property Australia



14:55 **Nevertire Solar Farm: Insights From A Large-Scale Solar Projects To Provide Affordable, Reliable And Sustainable Electricity For Australians**

The Nevertire Solar Farm has an installed capacity of 132MW capable of generating circa 250 GWh of green electricity each year. The site will cover an area of 180 hectares and comprise approximately 400,000 solar panels, installed on ground-mounted single axis tracking frames. The 132MW Nevertire Solar Farm is located near Warren in north-west New South Wales. The farm has generated renewable electricity which will feed into the national electricity grid and use standard, flat solar photovoltaic (PV) modules installed on ground-mounted single axis tracking frames.

BLOCKCHAIN, AI AND ANALYTICS

15:55 **Block Chain P2P Solar Energy Trading Case Study: How Power Ledger's Blockchain-Enabled Virtual Power Plant Benefits The Peer-To-Peer Electricity Trading For Communities And Grid Expansion**



Power Ledger

Power Ledger has partnered with energy provider Powerclub to deploy its blockchain technology for solar energy trading on a commercial scale and give South Australian households greater control over their energy use. Under the major deal, Powerclub users will be able to pool their net solar and battery storage to act as a virtual power plant (VPP) and gain access to wholesale electricity prices.

16:25 **Closing Remarks By Forum Chairperson**



ARIEL LIEBMAN, PHD
 Director
 Monash Energy Institute



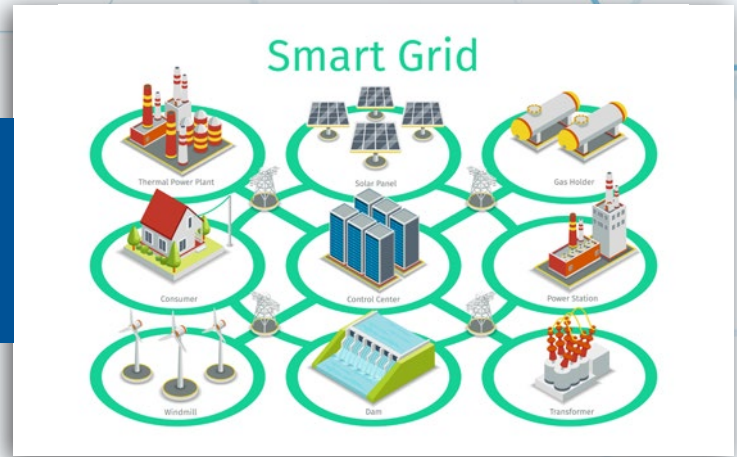
POST-FORUM WORKSHOPS

1 DEC
WED 14

SMART GRID SOLUTIONS TO ADDRESS THE RISE OF MICROGRIDS

WORKSHOP A: 10:00 - 10:45

Recognizing that microgrids will exist with or without utility involvement, this session covers how utilities can leverage their smart grid investments to capitalize on the value proposition that occurs by working with the microgrid owner



WORKSHOP B: 11:00 - 11:45

CUSTOMER-OWNED MICROGRIDS

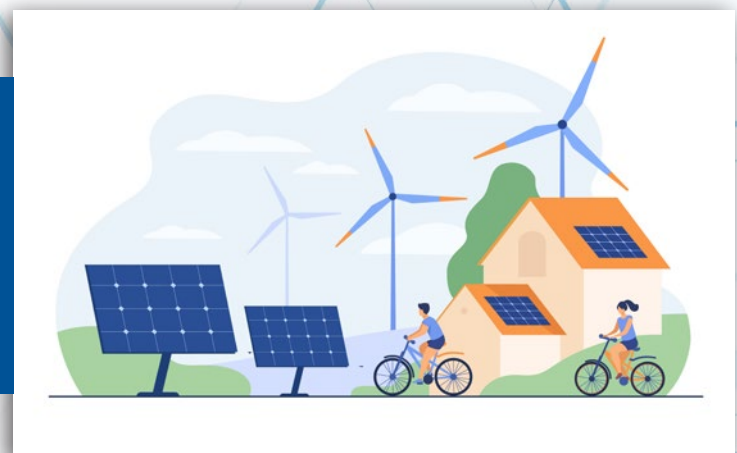


Why do consumers choose to build microgrids? In this session, we will focus on business case and desired outcomes, technical choices frequently available, and impacts to the utility.

SOLAR PV SYSTEMS: THE COMPLIANT AND NON-COMPLIANT INSTALLATIONS

WORKSHOP C: 13:00 - 13:45

This interactive workshop is designed to address common installation issues that lead to solar PV system non-compliance. Why is this important? The system has to be installed correctly to satisfy Australian and New Zealand standards and guidelines, in order to be eligible for STCs. If there are any non-compliant issues, the rebate cannot be claimed.



CAPITALIZE ON THIS FORUM

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Looking for the ideal platform to elevate your professional status and strike key business partnerships?

Leverage on our limited sponsorship packages to strengthen and confirm your market position through consistent and continual branding awareness and take advantage of the plethora of opportunities with high level decision makers.

Your Partnership with us will provide you with:

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- Extraordinary brand visibility, increasing brand awareness and preference
- Long-term business partnerships with leading service design partners,

Please contact *Liezl Gutierrez (Ms)* at +61 (4) 3228 7146 or email liezl@claridenglobal.org to discuss potential sponsorship opportunities or to custom make your own package.



Benefits as Media Partner and Supporting Organization at the 2nd Virtual Power Plants, Microgrid, Large Scale Solar And Energy Storage Innovations Forum

- Enhance your corporate profile and visibility within your industry - Your company's logo will be emblazoned on our brochures and distributed to decision makers across the region
- Affiliation with an internationally recognized commercial event organizer

Clariden Global events are widely known and trusted throughout the world for providing best value to senior industry executives. Through partnering with selected media and supporting organizations, we are capable of delivering the highest caliber of expert knowledge and key industry insights to the target market.

If you meet the criteria mentioned above and would like to explore the opportunity to partner with us for the 2nd Virtual Power Plants, Microgrid, Large Scale Solar And Energy Storage Innovations Forum, please contact *Karen Williams* at +61 3 9909 7310 or email karen.williams@microgridevent.com.



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Please complete this section.

Booking Contact (Approving Manager) Mr/Mrs/Ms: _____
Job Title: _____ Department: _____
Telephone: _____
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Address: _____
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<input type="checkbox"/> I would like to receive more information on hotel accommodation using Clariden Global corporate rate.

Promotional Code (Optional): _____

Please register the following participant(s) for this Forum

1st Participant Name (Mr/Mrs/Ms): _____

Job Title: _____ Department: _____

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2nd Participant Name (Mr/Mrs/Ms): _____

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3rd Participant Name (Mr/Mrs/Ms): _____

Job Title: _____ Department: _____

Telephone: _____

Email: _____

Forum Package Selected: _____

4th Participant Name (Mr/Mrs/Ms): _____

Job Title: _____ Department: _____

Telephone: _____

Email: _____

Forum Package Selected: _____

FORUM FEES			
Forum Packages	Early Bird Fee (If payments and registrations are received by 5 Oct 2021)	Final Early Bird Fee (If payments and registrations are received by 15 Nov 2021)	Regular Fee
VIRTUAL FORUM			
A: 2-Day Main Forum (Most Popular)	AUD 1,595	AUD 1,795	AUD 1,995
B: 2-days Main Forum + 1-day Workshop (Most Value)	AUD 1,995	AUD 2,195	AUD 2,395

PLEASE NOTE: The forum fee includes forum documentation. Payments are required with registration and must be received prior to the forum to guarantee your place.

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Register with your Colleagues Today to Enjoy Group Discount*:

Group discount of 10% for the 2nd participant from the same organization.

For limited time only by 15 November 2021, register 3 participants and the 4th participant will receive a **complimentary** seat.

For 5 or more registrations, please contact **Karen Williams** at karen.williams@microgridevent.com.

Group Discount will only be applicable to the package of the lowest value.

*Only 1 discount scheme will apply. Discount will compound on top of your early bird discount! This offer is valid for a limited time only, till 15 November 2021.

4 WAYS TO REGISTER

-  Email: admissions@claridenglobal.com
-  Fax: +61 3 9909 7788
-  Call: +61 3 9909 7310
-  Website: www.microgridevent.com

PAYMENT METHODS

BY CHEQUE / BANK DRAFT :
Made payable to CLARIDEN GLOBAL INTERNATIONAL LIMITED and mail to: 3 International Business Park, #04-29, Nordic European Centre, Singapore 609927.

BY TELEGRAPHIC TRANSFER TO:
Bank Name: **Standard Chartered Bank**
Bank Code: **7144**
Bank Branch Code: **001**
Bank Address: **6 Battery Road, #01-01 Singapore 049909**
Bank Account No: **0107775042**
Bank Account name: **CLARIDEN GLOBAL INTERNATIONAL LIMITED**
SWIFT Code: **SCBLSG22**

Please note that all bank charges are to be borne by participants. Please ensure Clariden Global International Limited receives the full invoiced amount.
Note: Please include invoice number on all payment types and your company's name in your payment instructions for our reference.

CREDIT CARD:
To make payment by credit card, please call our client services hotline at +61 3 9909 7310.

FORUM VENUE AND ACCOMMODATION INFORMATION

Virtual Forum (via Zoom) | Australian Eastern Daylight Time (AEDT)
29 November – 1 December 2021

HOW TO REGISTER AND PAY

An invoice and registration confirmation will be sent within 7 days, please contact us if you have not heard from us within 7 days. Payment can be made by credit card, by bank transfer or by cheque made payable to "CLARIDEN GLOBAL INTERNATIONAL LIMITED".

ALL PAYMENTS MUST BE RECEIVED IN ADVANCE OF THE EVENT.

ACCOMMODATION

Accommodation is not included in the program fee but you will be entitled to use our corporate rate for your accommodation. Information will be sent along with your registration confirmation.

CANCELLATIONS AND SUBSTITUTIONS

Once we have received your booking, the place(s) are confirmed. No refunds will be made for any cancellations, however, program credits of equivalent value only applicable for Clariden Global events will be provided. Credits can only be redeemed for 1 program and is valid for only one (1) year from date of issue.

Substitution with a qualified candidate is allowed by providing at least 5 working days of advance notice to Clariden Global. One time substitution is allowed with no charges. Subsequent substitutions will be charged 10% admin fee.

ALL CANCELLATIONS MUST BE RECEIVED IN WRITTEN FORM

PLEASE NOTE: CLARIDEN GLOBAL INTERNATIONAL LIMITED reserves the right to change the content and timing of the programme, the speakers and the date and venue due to reasons beyond their control. If in the unlikely event that the course is cancelled, CLARIDEN GLOBAL INTERNATIONAL LIMITED will refund the full amount and disclaim any further liability.

ENQUIRIES: If you have any queries about registration or payment please do not hesitate to contact our client services department on +61 3 9909 7310.

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