

# AGM MATTERS

- Welcome
- Confirm Quorum
  - 5% of the voting membership of 80
- Please sign on.
- Chair – Directors need to appoint Meeting Chair from the Directors, if not able/willing then Voting Membership needs to appoint a Meeting Chair from the Voting Membership
- Apologies: Renate Egan, Olivia Coldrey

# AGM MATTERS

**Venue: Marcus Clarke Lecture Theatre**

**Time: 5:00pm – 5.45pm Thursday December 1, 2016**

## **Agenda**

1. Apologies
2. Minutes of 2015 APVI AGM
3. Business arising from Minutes
4. 2016 APVI Report of the Board (Chair)
5. 2016 APVI Treasurer's Report, including Remuneration Report and Financial Statements, Financial Position, Report of the Auditor, Statement of the Board
6. Appointment of auditor and fixing remuneration of the auditor
7. Election of 2015 Board and Office Bearers
8. Discussion
9. Other Business
10. Close of APVI Meeting



# APVI AGM CHAIRS REPORT

**Renate Egan**

Chair, Australian PV Institute

IEA PVPS ExCo

# THE APVI

Objective:

*To support the increased development and use of PV via research, analysis and information*

Independent, apolitical and widely cited by the PV sector, governments and stakeholders

**IEA PVPS and IEA SHC representation for Australia**

# AWARDED AUSTRALIAN NATIONAL PRIZE, ENERGY GLOBE AWARDS

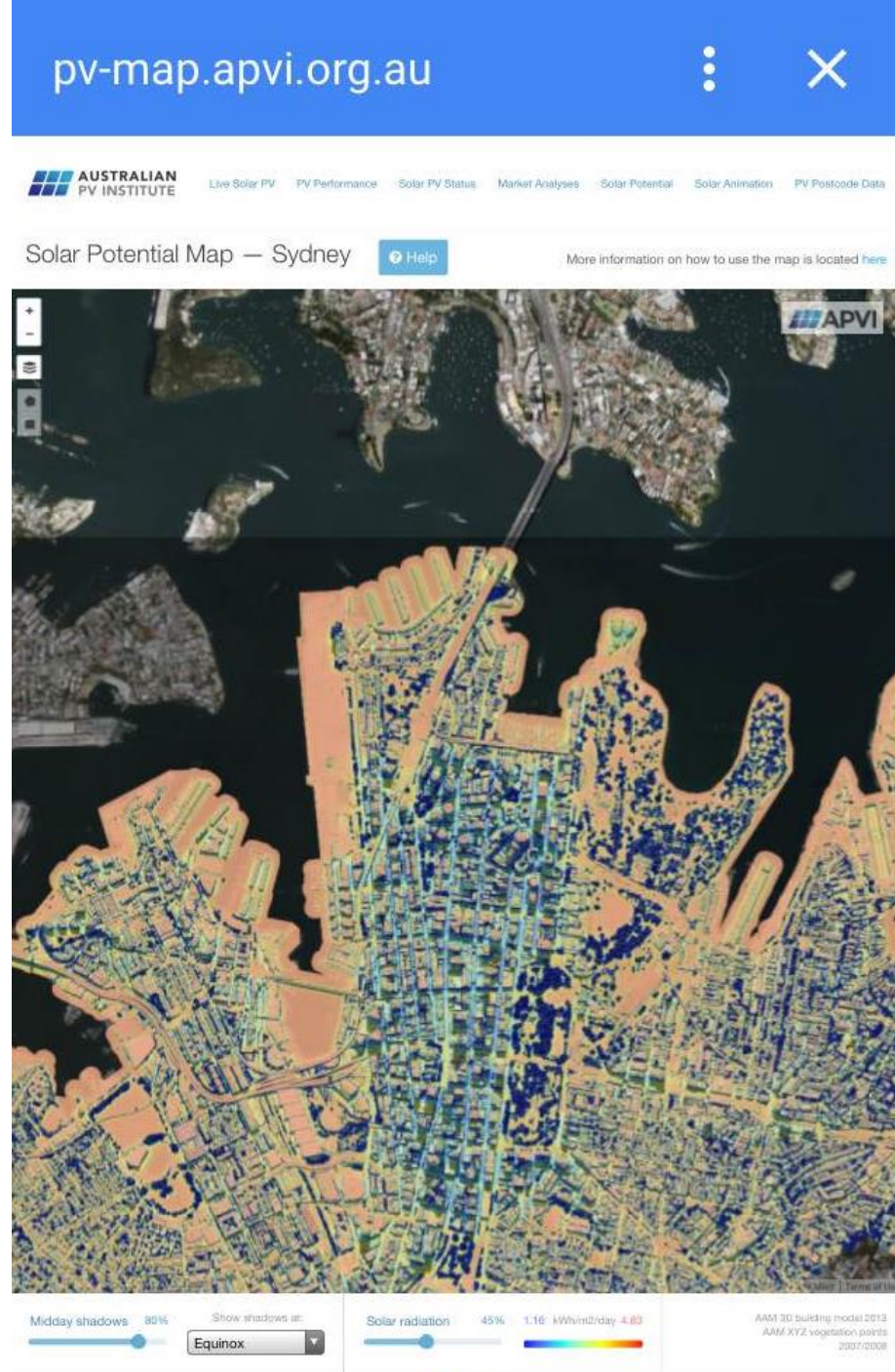




# SOLAR POTENTIAL TOOL

Working with three NSW Councils (Kuringai, Randwick and Willoughby) and the NSW Renewable Energy Office on a wider roll-out of the Solar Potential Tool.

Let us know if you are interested in working with your council in the wider roll-out.



# CSIRO SOLAR HACKATHON

APVI Renate Egan participated in the judging - first prize going to a team that devised a gaming platform for solar trading





# WORKSHOPS AND PRESENTATIONS

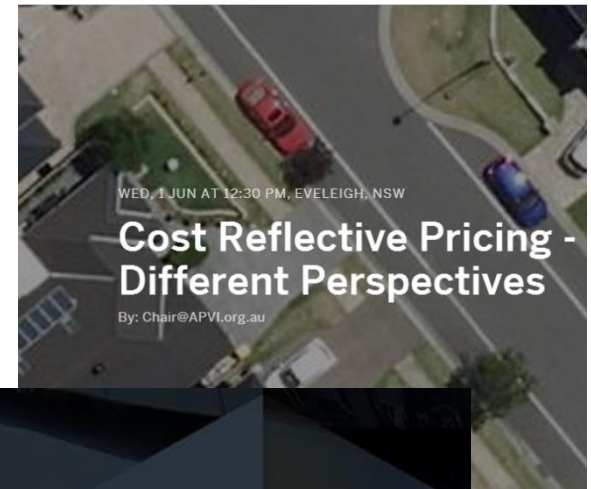
Rob Passey, Workshop on Cost Reflective Pricing

Anna Bruce at Renewable Cities

Renate Egan at Clean Energy Summit

Warwick Johnson & Linda Koschier  
Workshop on Batteries and Grid  
Integration

Many at the 2016 APSRC





# SUBMISSIONS

Victorian Government on  
the review of the General  
Exemption Order

Senate Estimates into  
Budget Cuts & ARENA

SAPN on tariffs & pricing

Queensland Prod.  
Commission on tariffs &  
pricing

And more (all available  
on APVI website)

## *APVI Submission to the Victorian Government on the review of the General Exemption Order in response*

tc

### APVI Comments on

### Recommendation

Those undertaking t  
a licence under sect

- the interm
- the interm
- small-scale

The General Exempt  
exemptions in addit  
New exempt entitie

Economics Standing Committee  
Senate Enquiry on proposed Budget Cuts

Renate Egan  
Chair, Australian PV Institute  
5 September 2016

### Removal of R&D funding for renewable energy innovation

Dear Senators,

I write to you with great concern that research and development capacity in renewables stands to be severely impacted by removing the funding from the Australian Renewable Energy Agency (ARENA) as proposed in the omnibus bill.

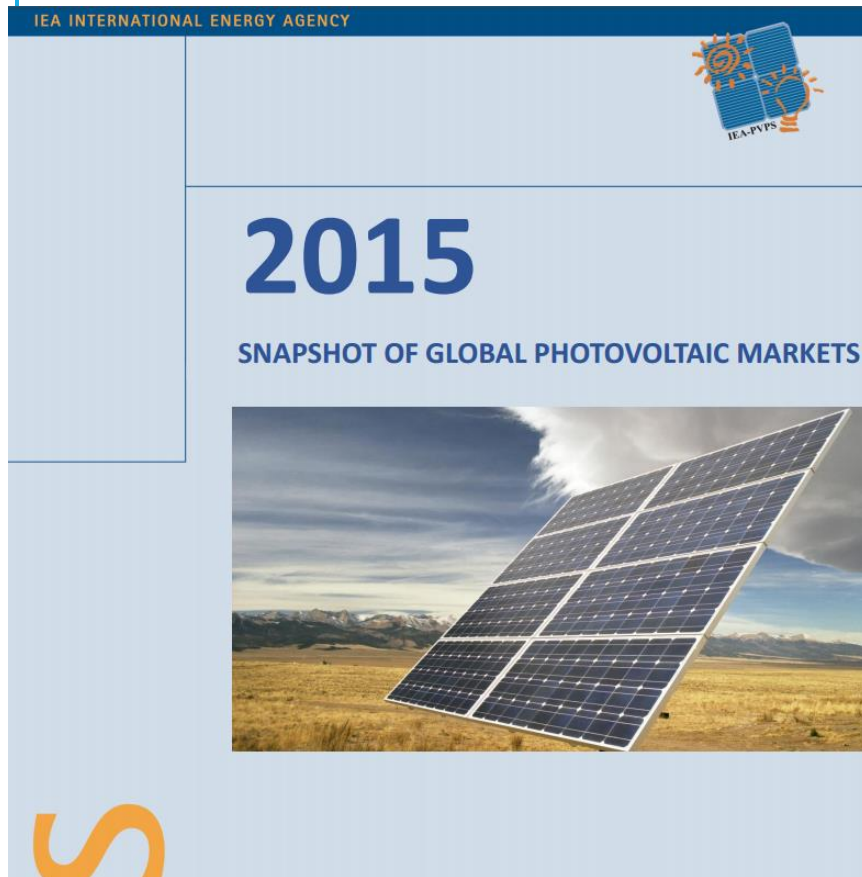
Australia has made commitments at the Paris Climate talks (COP21) and under Mission Innovation to double government clean energy research and development investment by 2020.

Removing granting funds from ARENA will remove the primary mechanism for delivering on this commitment, yet there is no alternative path for delivery identified.

For over 30 years there has been an Australian renewable energy funding agency in one form or another in Australia that has provided grant support for research, education and pre-commercial development. This has led to great success in generation of technology and provision of education. The energy industry is widely acknowledged as being in a critical stage of change – Australia needs to engage and continue to lead in this process. Competitive grants are accepted worldwide as a highly effective method of supporting R&D and early stage commercialisation and an essential component of technology innovation.

The APVI urges the Senate to block the proposed change that removes the budget allocation for grant funding for research and development through ARENA.

# NATIONAL SURVEY REPORTS TO THE IEA



## National Survey Report of PV Power Applications in AUSTRALIA 2015



IEA PVPS

 **AUSTRALIAN  
PV INSTITUTE**

# 2015

SNAPSHOT OF GLOBAL PHOTOVOLTAIC MARKETS

IEA INTERNATIONAL ENERGY AGENCY



## TRENDS 2015

IN PHOTOVOLTAIC APPLICATIONS



Technology Roadmap  
Solar Photovoltaic Energy

2014 edition



IEA INTERNATIONAL ENERGY AGENCY  
PHOTOVOLTAIC POWER SYSTEMS PROGRAMME



International Renewable Energy Agency



END-OF-LIFE  
MANAGEMENT  
Solar Photovoltaic Panels

IEA REPORTs

PV Snapshot (March)

PV Technology  
Roadmap

Technical Reviews:

End of Life Management

Impact of a Solar  
Eclipse on Grid  
Dynamics



# IEA TASK 1 MEETING

October 2016, Sydney

V successful.

Held at Bondi Icebergs.





# SOLAR RESEARCH CONFERENCE, NEXT YEAR IN MELBOURNE DEC 4-6, 2017

# 2016

ASIA-PACIFIC SOLAR RESEARCH CONFERENCE  
29 NOV - 1 DEC 2016, AUSTRALIAN NATIONAL UNIVERSITY,  
CANBERRA.



ASIA-PACIFIC  
SOLAR RESEARCH  
CONFERENCE

REGISTER NOW

[HOME](#) [ABOUT](#) [SUBMIT PAPERS!](#) [STUDENT PRIZES!](#) [WORKSHOPS & SIDE EVENTS](#) [TOURS](#) [PLENARIES](#)



ASIA-PACIFIC  
SOLAR RESEARCH  
CONFERENCE

4-6 December 2017

Melbourne, Australia

*Information, Collaboration, Integration*

# 2017



AUSTRALIAN  
PV INSTITUTE

## PARTNERSHIPS

**Energy Storage Alliance** – Benefit to APVI in promotion of our events and co hosting events

**ISES** –benefit to APVI in cross promotion of conferences and discount membership to ISES for APVI members

**EcoGen Magazine** – Editorial Board

**Climate Council Media** – media leads

**COREM** – APVI provides project administration

**CORENA** – APVI endorsement

**Community Renewables**, various approaches to the APVI for endorsement. Request for nomination by a member.

## IEA PVPS & SHC

### ✓ PV in Australia Report

- Snapshot report (April 2016) – press in Renew Economy
- PV in Australia report published (June) – press in Renew Economy
- Trends in PV report (October)

### ✓ Geoff Stapleton joined Task 9: PV deployment in developing regions

- looking for support for subtask on PV for islands

### ❖ Australia hosted Task 1 meeting, October 2016 in Sydney.

- Australia to host SHC ExCo and PVPS ExCo in late 2017– to co-incide with APSRC conference/ Melbourne

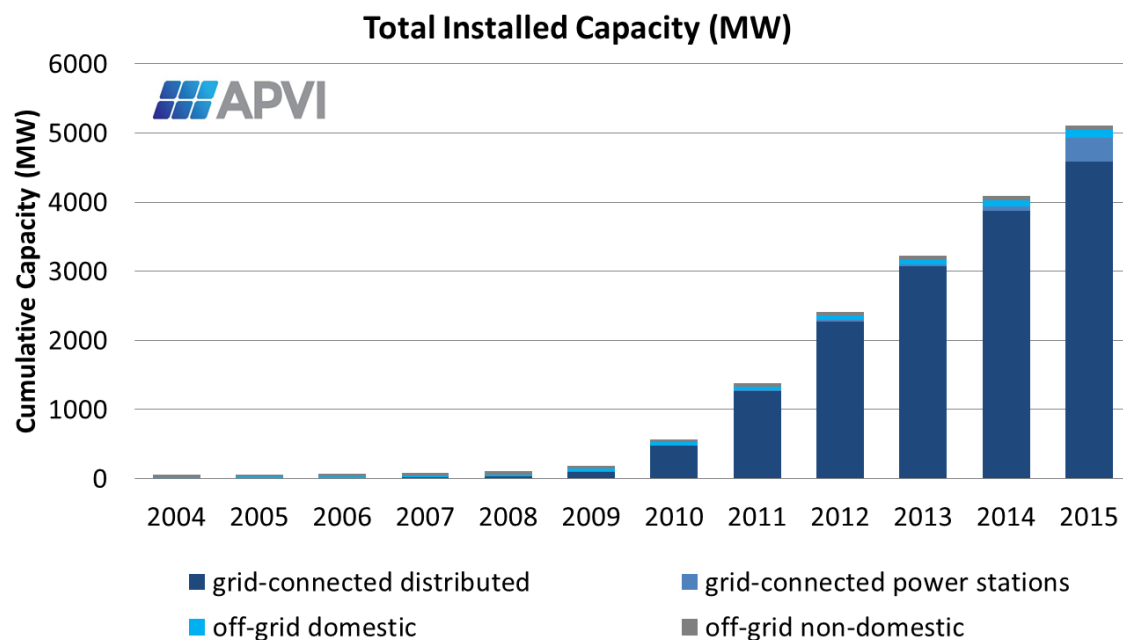
- WOULD BE GREAT TO GET SUPPORT FOR THIS FROM VICTORIAN GOVT SOMEHOW. IDEAS? VOLUNTEERS?

# Australian Installed Capacity

DEC 2015, 5.0 GW SOLAR CAPACITY

2015 OCTOBER > 4.7GW

2015



- **1GW** installed in 2015
- **2.9%** of electricity demand
- **Average 19% penetration** and over 50% in some areas
- Australian households invested **12 Billion dollars** in solar since 2010
- **>12,000** employed annually in solar PV in Australia (2013)



## 2016 PROJECTS, SUBMISSIONS, PRESENTATIONS, WORKSHOPS, CONFERENCES

- Australia's representation to IEA on PV and SHC (ongoing)
- Industry representation on policy and tariff reform (ongoing)
- Solar Map Stage 2 – wider roll-out of Solar Potential Tool
- 2017 Workshops – June, to co-incide with AESA Sydney Conference
- 2017 IEA PVPS and SHC Executive Committee Meetings, late November 2017
- 2017 Solar Research Conference –December 4-6, Melbourne
- Battery and Module recycling, with ABRI (UTS, pending)
- Solar in Urban Planning (SHC) (pending)
- Performance and Reliability (IEA, pending)
- High penetration PV ( IEA, pending)
- Building Integrated PV (IEA, pending)

# SUMMARY 2016 ACTIVITIES

## Projects

- Roll-out of Solar Potential Tool (NSW Councils)
- IEA representation (through to end 2018)
- COREM (2015-
- Consumer Advocacy Panel
- Annual Solar Research Conference
- Real-time operational PV simulations for distribution network service providers with ANU (Nic Engerer)
- Networks Renewed with UTS (Geoff James)

## Submissions on behalf of industry

- Cost Reflective Pricing (ECA)
- Queensland Productivity Commission Draft Report: Electricity Pricing Inquiry (March)
- AER SA Power Networks Tariff Structure Statement (May)
- AER on Ergon and Energex Tariff Structure Statement (May )
- Victorian Govt Review of Exemption Orders (Aug )
- Senate Enquiry on ARENA budget cuts (Sept)

## Pending

- ANU – Blakers on pumped hydro
- Solar Analytics – live data for Solar Map

## Presentations

- Energy Globe Award (January, Dubai)
- CSIRO Solar Hackathon (April, Newcastle)
- IEA & ARENA (May, Canberra)
- Renewable Cities (June)
- AES Workshop (June)
- Clean Energy Summit (July)
- Task 1 OA Meeting (October, Sydney)
- Solar Research Conference (Dec, ANU)

# KEY CHALLENGES

## Maintaining Profile

- during change and in a politically charged environment

## Delivering Membership Value

## Funding

- In lower margin, lower volume market

## Resourcing

## Business Development

# AGM MATTERS

Venue: Brisbane Convention and Exhibition Centre, Rooms; Plaza P1&2.

Time: 5:00pm – 5.40pm, Wednesday 9th December, 2015

## Agenda

1. Minutes of 2014 APVI AGM (Circulated Nov 22<sup>nd</sup>)
2. Business arising from Minutes
3. 2015 APVI Report of the Board (Chair)
4. 2015 APVI Treasurer's Report, including Remuneration Report and Financial Statements, Financial Position, Report of the Auditor, Statement of the Board
5. Appointment of auditor and fixing remuneration of the auditor
6. Election of 2015 Board and Office Bearers
7. Discussion
8. Other Business
9. Close of APVI Meeting



## ELECTION OF 2016 BOARD AND OFFICE BEARERS

- The current APVI Board consists of

Nicole Ghiotto      Lyndon Frearson      Oliver Woldring,  
Igor Skyrabin      Olivia Coldrey      Renate Egan

- **Retiring:** Nicole Ghiotto and Olivia Coldrey
- **Nominations:** Nicole Ghiotto, Olivia Coldrey and Chris Fell

- **PENDING: The Board agrees to increase the number of Directors to seven. Three Directors are elected unopposed**

Chair and Executive Committee positions (current holder indicated in brackets)

Chair\*1 (Renate Egan)      Secretary\*2 (Emily Mitchell)  
Treasurer (Rob Passey)      Public Officer (Igor Skyrabin)

The meeting to take nominations, the Directors to elect office bearers.

\*1 Renate Egan is agreeable to continue in the role of Chair

\*2 Emily Mitchell will retire as Secretary, the Chair thanks Emily Mitchell. Renate Egan nominates Linda Kosenler

# AGM MATTERS

Venue: Brisbane Convention and Exhibition Centre, Rooms; Plaza P1&2.

Time: 5:00pm – 5.40pm, Wednesday 9th December, 2015

## Agenda

- 1. Minutes of 2014 APVI AGM (Circulated Nov 22<sup>nd</sup>)**
- 2. Business arising from Minutes**
- 3. 2015 APVI Report of the Board (Chair)**
- 4. 2015 APVI Treasurer's Report, including Remuneration Report and Financial Statements, Financial Position, Report of the Auditor, Statement of the Board**
- 5. Appointment of auditor and fixing remuneration of the auditor**
- 6. Election of 2015 Board and Office Bearers**
- 7. Discussion**
- 8. Other Business**
- 9. Close of APVI Meeting**

# THE APVI

Objective:

*To support the increased development and use of PV via research, analysis and information*

Independent, apolitical and widely cited by the PV sector, governments and stakeholders

**IEA PVPS and IEA SHC representation for Australia**