



AUSTRALIAN
PV INSTITUTE

ASIA-PACIFIC SOLAR RESEARCH CONFERENCE

AGENDA

1. Minutes of AGM 2022 (Last year's minutes can be found [here](#).)
2. Chair's report
 - Strategic plan
 - IEA Tasks: PVPS / SHC
 - PV manufacturing / S2S
 - BIPV Alliance
 - Sunspot
3. Treasurer's report & appointment of auditor
4. Election of Directors
5. Announcement of new Chair and continuing Executive appointments
6. Conference update?
7. AOB

STRATEGIC ACTION PLAN 2023

SCOPE

The principal purpose of the APVI is to support the development and uptake of solar photovoltaics and related technologies through research, analysis, information, data, collaborative activities, networks, guidelines, practices and submissions.

STRATEGIC OBJECTIVES

- Sustainable organisation: Maintain and increase APVI membership of researchers and innovators in solar and related technologies.
- Build a co-operative community: Increase opportunities for networking and sharing research.
- Industry and regional linkages: Build connections with related industries and across the Asia-Pacific region.

INTERNATIONAL PROJECTS

International Technology Collaboration Programs under the auspices of the International Energy Agency.

PV Power Systems

- Focusses on energy production by PV and technology developments for a future sustainable PV industry

Solar Heating and Cooling

- Focusses on using solar to supply heating, cooling and lighting for buildings and industry. (See more in this room after lunch tomorrow)

PV POWER SYSTEMS (PVPS)



Task	Name	Australian Expert
ExCo	PVPS Executive Committee	Olivia Coldrey, Renate Egan, UNSW
Task 1	Strategic PV Analysis & Outreach	Linda Koschier
Task 12	PV Sustainability	Rong Deng, UNSW
Task 13	Performance and Reliability of Photovoltaic Systems	David Parvevliet, Murdoch
Task 14	High Penetration of PV Systems in Electricity Grids	Iain Macgill, UNSW
Task 15	Enabling Framework for the Development of Building-Integrated PV	Rebecca Yang, RMIT, Sub Task Lead
Task 16	Solar Resource for High Penetration and Large Scale Applications	John Boland, UniSA
Task 17	PV and Transport	Nicholas Ekins-Daukes, UNSW
Task 18	Off Grid Access to Energy	Chris Martell, GSES, Operating Agent

SOLAR HEATING AND COOLING (SHC)



Task	Name	Australian Expert
ExCo:	SHC Executive Committee	Ken Guthrie, Sustainable Energy Trans. Prof Rob Taylor, UNSW
Task 62:	Solar Energy in Industrial Water and Wastewater Management	Prof Mikel Duke, Victoria Uni
Task 63:	Solar Neighborhood Planning	Dr Mark Snow, APVI
Task 64:	Solar Process Heat	-
Task 65:	Solar Cooling for the Sunbelt Regions	Prof Lu Aye, Melbourne University
Task 66:	Solar Energy Buildings	Prof Rebecca Yang, RMIT
Task 67:	Compact Thermal Energy Storage Materials	-
Task 68:	Efficient Solar District Heating Systems	-
Task 69:	Solar Hot Water for 2030	Prof Robert Taylor, UNSW (Task Manager), Dean Clift, RMIT/Rheem (Sub Task Lead)
Task 70:	Low Carbon, High Comfort Integrated Lighting	Assoc Prof Veronica Garcia Hansen, QUT
Task 71:	Life Cycle and Cost Assessment for Heating and Cooling Technologies	Dr Zhengen Ren, CSIRO

PROPOSED AND POTENTIAL FUTURE TASKS

PV Power Systems

- Agri PV
- Interest in PV for hydrogen

Solar Heating and Cooling

- Energy Sources from Solar-Driven Reactors (Hydrogen from solar reactors)
- Solar Cooling for Emerging Economies
- Interest in performance of Solar Air Collectors

2023

Highlights

- Australia participating in 16 Tasks
 - all 9 PVPS Tasks and 7 of 10 SHC Tasks
- Very Successful PVPS All Task and Exco meeting held in Adelaide in November
- The work of APVI in both TCPs was presented in two sessions at All Energy in October and at APSRC now

Funding

- Thanks to ARENA for support for the past 6 years.
- The International Engagement Program is not continuing
- We currently don't have any funding from now and will withdraw at the end of 2024 if we don't find support.

Silicon to Solar (S2S) Study

A Roadmap for Australian PV manufacturing



Authors:

Michelle Vaqueiro Contreras, Renate Egan and Nathan Chang (ACAP), Brett Hallam (ITP Renewables), Oliver Hartley (Bright Dimension), Muriel Watt (APVI), Will Rayward-Smith, Matt Walden, Elizabeth Boylan, Anna Thoran and Camille Malbrain (Deloitte)

S2S STUDY OUTLINE:

Guiding Principles:

Develop a credible solar manufacturing strategy in Australia that is:

- ✓ **Viable:** globally competitive and economically viable long term.
- ✓ **Relevant:** at scale for future Australian and global demand.
- ✓ **Timely:** set up within a timeframe to achieve net zero by 2050.

1. Techno-economic Analysis of the value chain comparing Australia and China



2. Business Rationale
 (Levelised Cost of Production - LCOP)

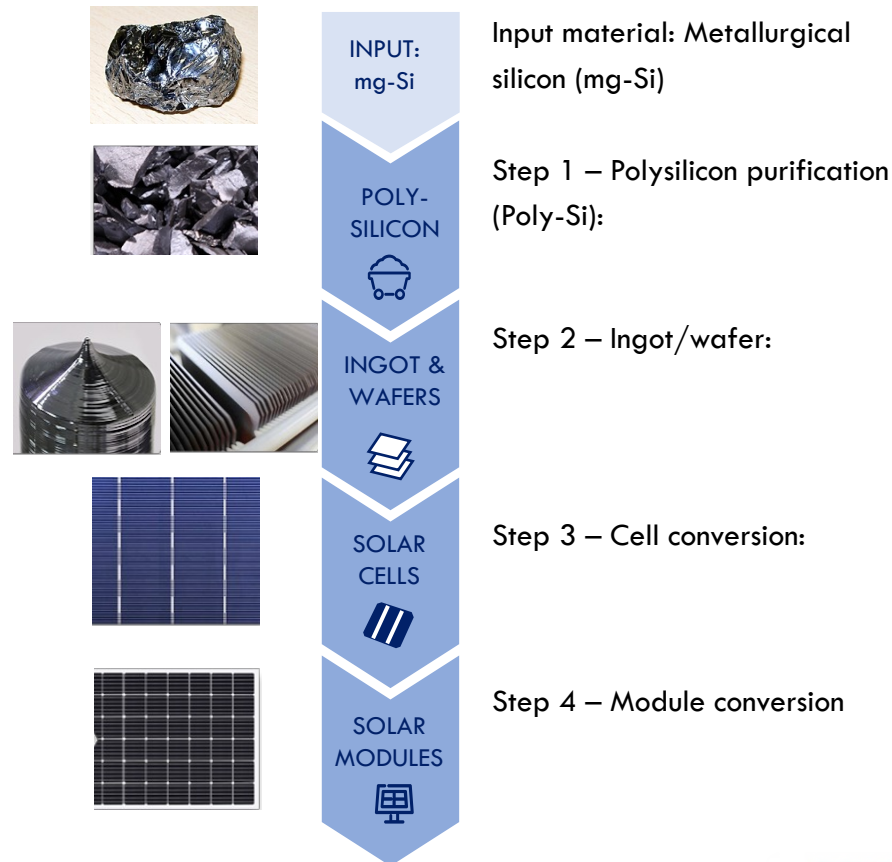


3. Policy analysis
 Enabling policies
 Supply-side policies
 Demand-side policies

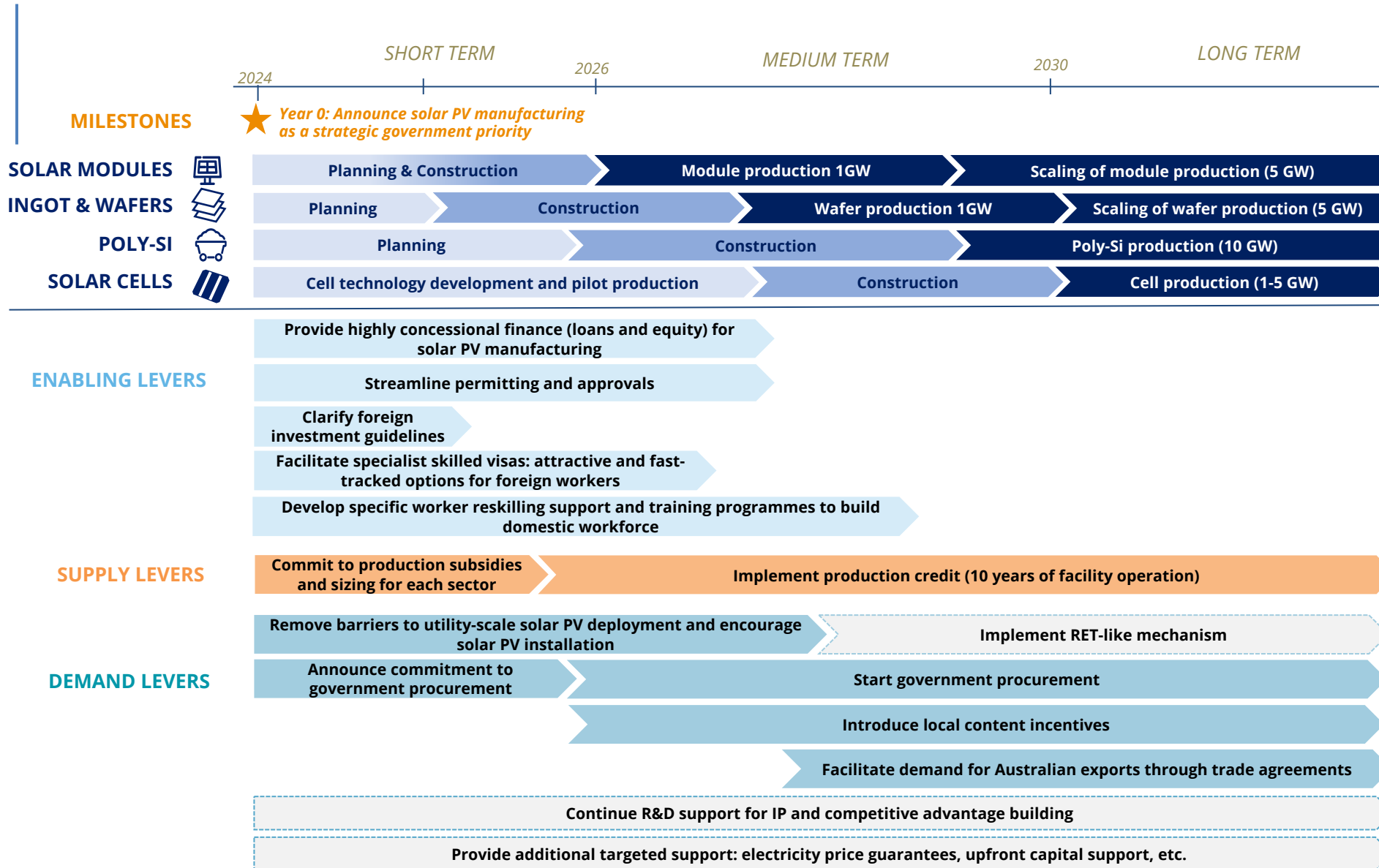


4. Recommendations:
 ➤ Immediate
 ➤ Next 12 months
 ➤ Years 1-5

Solar value chain



ROADMAP FOR PV MANUFACTURING IN AUSTRALIA



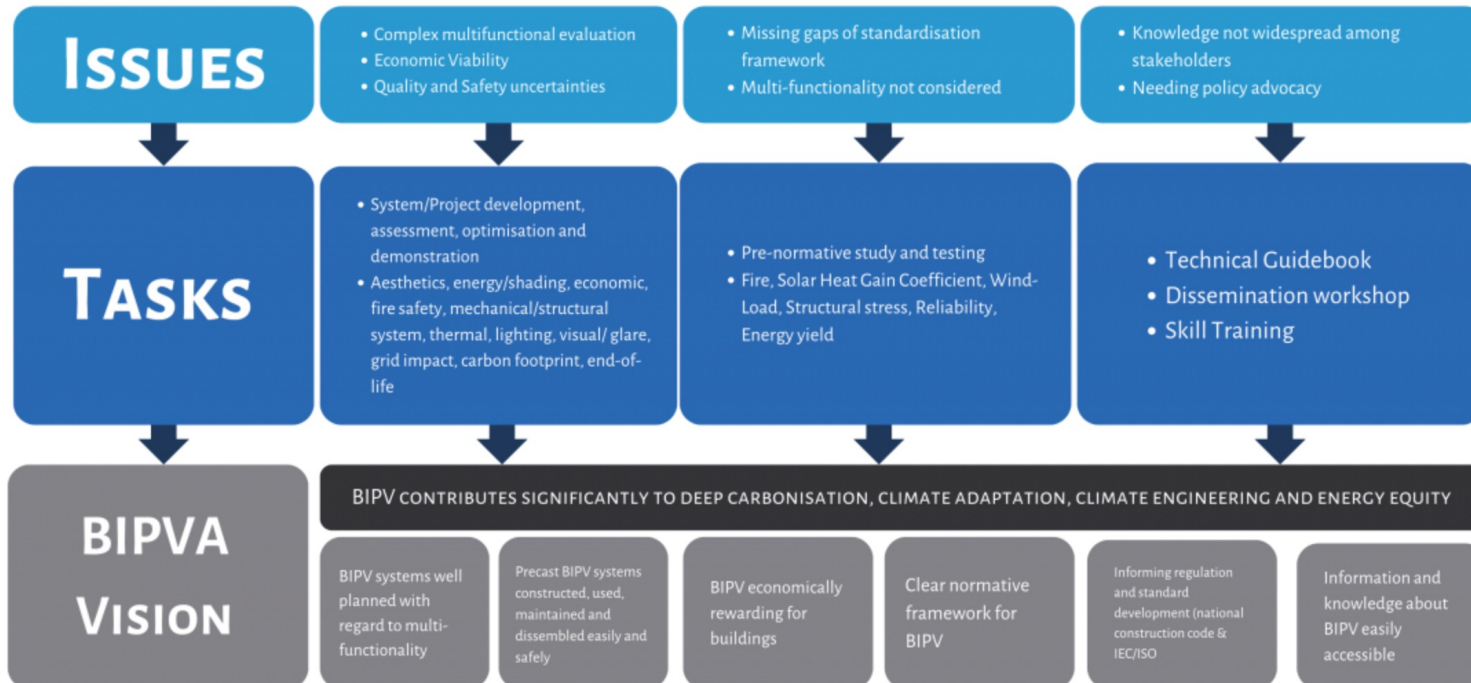
INDUSTRY

POLICY

BIPV

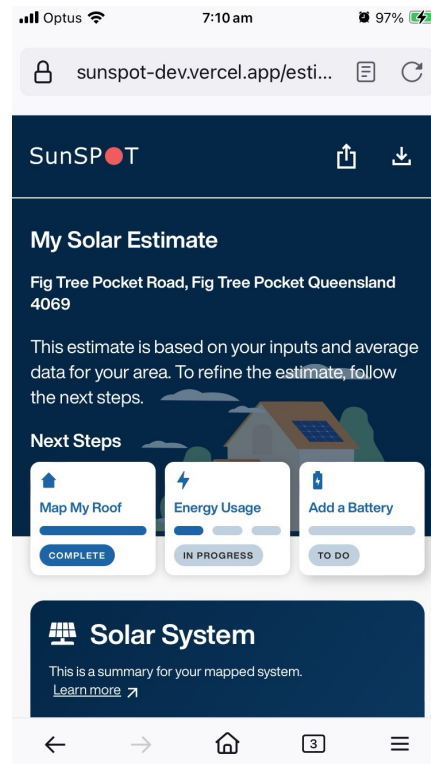
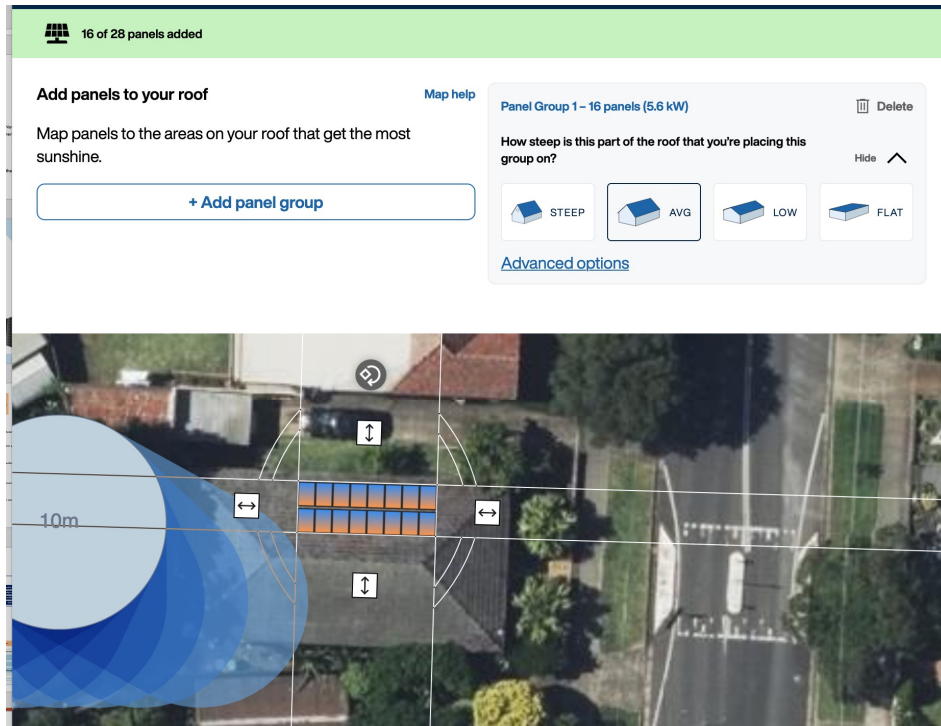
BIPV ALLIANCE

The BIPVA aims to enable collaborations within the entire stakeholder ecosystem across different industry sectors to address design, technical, practical, policy and standard related issues in BIPV adoption. It will showcase good practices, fill in industry knowledge gaps and provide training opportunities.



SunSPOT

APVI | SOLAR POTENTIAL TOOL



- ❖ Sunspot v4.0 live this week
- ❖ Available across Australia
- ❖ LiDAR and non-LiDAR versions

Supported by



Australian Government

**Department of Climate Change, Energy,
the Environment and Water**



SUNSPOT



Australian Government
Department of Climate Change, Energy,
the Environment and Water



Switch to solar
power

Financial benefits
of solar

Get to know solar
technology

Solar system
design

Solar retailers and
installation

Use your solar
system

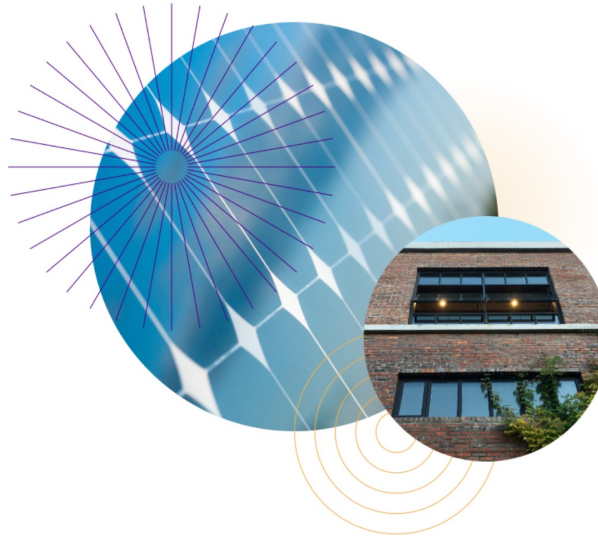
Glossary

Solar Consumer Guide

This guide offers you free and helpful information about rooftop solar and batteries.

It is for everyone, including households and small businesses. You won't need to hand over any personal information to use this guide.

Let's start—we'll take you through the steps to install, use and maintain your rooftop solar system.



TREASURER'S REPORT 2022/23



**AUSTRALIAN
PV INSTITUTE**

**Rob Passey
Treasurer APVI**

APVI AGM

5 Dec 2023

DETAILED BREAKDOWN INCOMINGS/OUTGOINGS

APVI Operational Profit & Loss July 2014 to June 2023

Incomings (ex GST)	Jun-14	Jun-15	Jun-16	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23
Memberships	41,046	40,437	43,550	36,926	37,933	35,168	27,090	25,340	28,490	29,758
Interest	1,609	2,602	1,264	891	2,245	2,155	831	437	112	3,953
Other	9,535	1,400	-			1,818				
Projects (income generating)	4,000	46,270	73,806	-						
Total	56,190	90,709	118,620	37,817	40,178	39,142	27,921	25,777	28,602	33,712
Outgoings (ex GST)										
Workshops & meetings	5,117	2,895	552	-						
Website	16,070	998	505	602	301	489.78	3,770	9,945	1,184	689
Insurance	2,277	2,418	2,382	2,334	2,550	2761.54	3,484	3,863	4,190	5,041
Audit & tax return	3,800	3,200	4,930	4,190	3,650	5125	3,820	3,470	2,650	5,500
Bank fees	218	106	20	140	-	77	181	70	75	120
Chair's salary	2,083									
Accounting/bookkeeping		1,442	2,417	810	1,707	1324.55	1,529	1,289	1,592	946
Consultancy salary	7,750	2,583	4,527	14,582	10,417	17,904	15,500	4,167	5,083	3,760
Projects (income generating)	5,013	42,576	76,875	21,623	-					
Media/communications	20,873									150
Expenses	10,537	2,237	1,813	944	500	475	1,429	895	413	3,526
Miscellaneous	1,519	1,643	764	1,149	348				85	197
Total	75,257	60,098	94,785	46,375	19,473	28,157	29,712	23,699	15,273	19,929
Total each year (ex GST)	(19,067)	30,612	23,835	(8,558)	20,706	10,985	(1,791)	2,078	13,328	13,783

PROFIT & LOSS

Australian PV Institute Limited

ABN: 91 006 005 190

Statement of Profit or Loss and Other Comprehensive Income For the Year Ended 30 June 2023

	2023	2022
Note	\$	\$
Revenue	4 1,502,561	1,219,466
Other Expenses	5 (1,242,134)	(1,097,677)
Profit before income tax	260,427	121,789
Income tax (expense)/benefit	(10,131)	1,653
Profit for the year	250,296	123,442
Total comprehensive income for the year	250,296	123,442

DIRECTORS & OFFICERS

- ❖ Mike Roberts – retiring
- ❖ Ken Guthrie – standing for re-election
- ❖ Linda Koschier – standing for re-election
- ❖ Roger Dargaville
- ❖ Rebecca Yang
- ❖ Rong Deng
- ❖ Marnie Shaw
- ❖ Renate Egan - Secretary
- ❖ Rob Passey – Treasurer
- ❖ Igor Skryabin – Public Officer

ELECTION OF DIRECTORS

- ❖ Ken Guthrie
- ❖ Linda Koschier
- ❖ Michelle Taylor (CV [here](#))