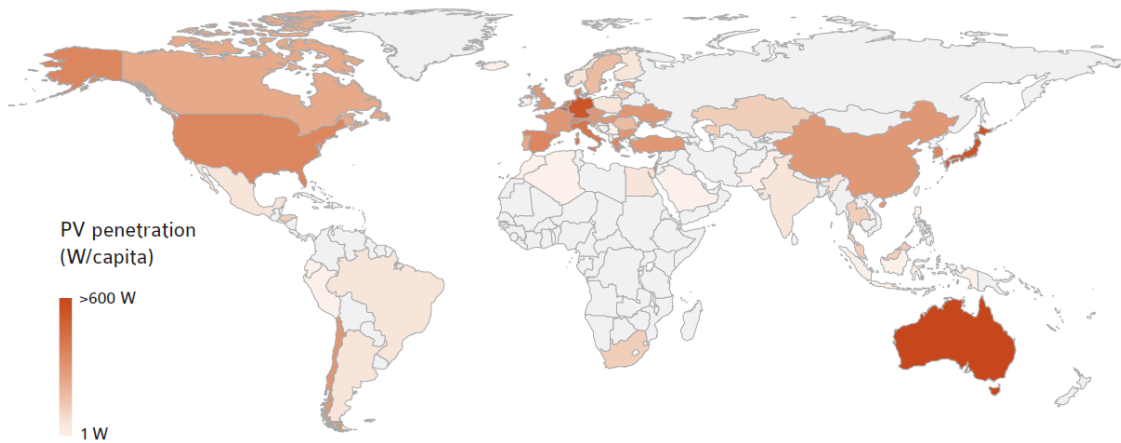


Australia now has the highest PV per capita in the world

The APVI reports that Australia now leads the world with the highest penetration of PV per inhabitant with 644 W per capita, followed by Germany and Japan. This statistic and other PV market trends have been released by the International Energy Agency.

FIGURE 2.2: PV PENETRATION PER CAPITA IN 2019



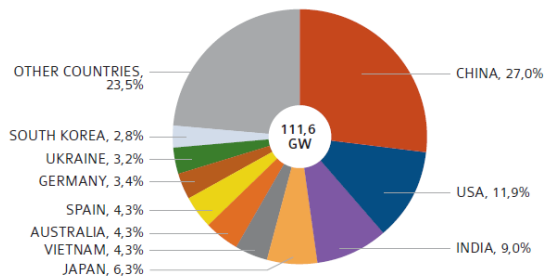
SOURCE IEA PVPS & OTHERS.

The Top 10 countries by new PV installation by the end of 2019 are in order: China, USA, India, Japan, Vietnam, Australia, Spain, Germany, Ukraine and Korea.

For the seventh year in a row, China installed the largest amount of PV, installing more than 30.1 GW, and representing 29% of global installation in 2019. However, this level is lower than the 44.3GW and 52.9GW newly installed capacity in 2018 and 2017 respectively.

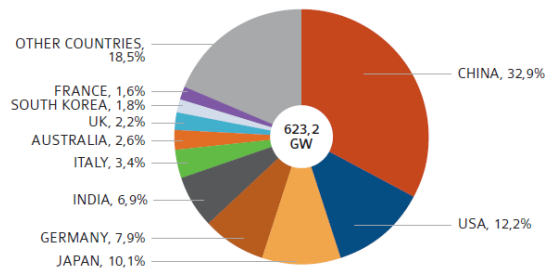
Australia was the **sixth largest installer of PV in 2019**, installing 4.8 GW, which contributed to a total PV capacity of 16.3 GW at the end of 2019 (**seventh largest in the world**). Australia is also on track for more than 4 GW of new PV capacity in 2020 and a cumulative total of more than 20 GW. The IEA report notes that Australia's contribution is at "a tremendous level given the country's population."

FIGURE 2.5: GLOBAL PV MARKET IN 2019



SOURCE IEA PVPS & OTHERS.

FIGURE 2.6: CUMULATIVE PV CAPACITY END 2019



SOURCE IEA PVPS & OTHERS.

The report continues, “Australia has for some years experienced a fast and massive PV development. It initially started in rooftop applications, especially in the residential segment, and it shifted quite rapidly to utility scale applications which are now massively developed. Australia is a perfect example of how competitive PV development is an easy task, with penetration levels which are now making the country the global number one in terms of PV capacity per capita. The decline in incentives, matched with the increasing competitiveness of PV, has had little impact on the PV market. Australia is also home of one of the key world-class research centres on PV.”

The noteworthy trend of 2019 is the growth of the global PV market despite the Chinese market slow-down for a second year in a row. As in 2018, the rise of emerging markets contributed to this market growth in 2019.

Australia and the United States are also the most mature markets when it comes to storage, with respectively 2.7 GWh and 1 GWh installed by the end of 2019.

Utility-scale PV systems have dominated the PV market in 2019; however, distributed PV systems, namely on commercial and industrial premises, are becoming more important in many countries, including Australia, due to their favourable economics; in particular when combined with increased self-consumption and battery storage. Additionally, new market segments are emerging such as floating PV and agri-PV, the combination of PV with agriculture.

The report states that the impact of the COVID-19 pandemic is expected to be limited on the PV market growth in 2020 and in the following years. While some countries experienced a reduction in installations due to lockdown measures, other markets experienced larger uptakes in the residential markets and many countries reaffirmed their support for renewable technologies in their recovery plans to limit the economic and social impact of the pandemic.

Key statistics for Australia:

End of 2019

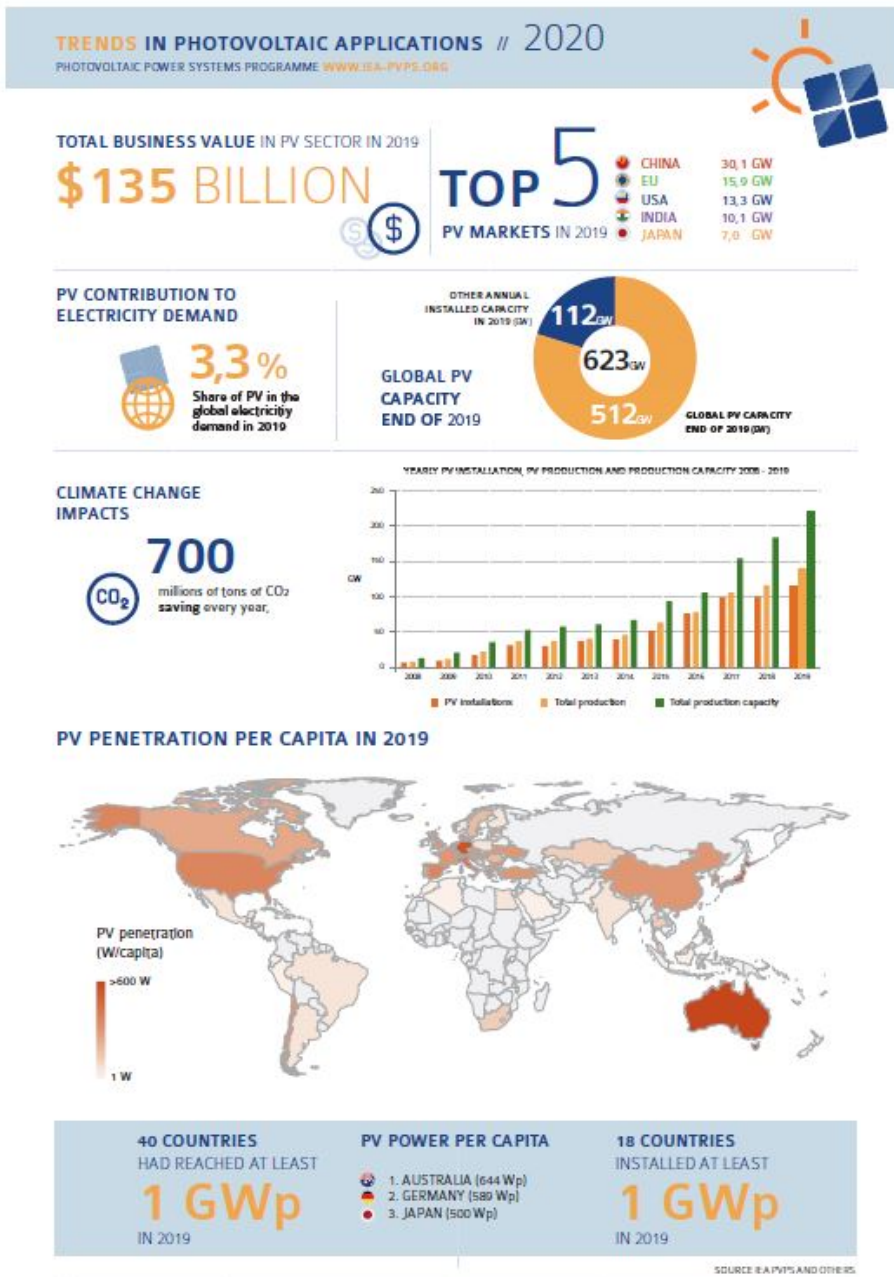
#1 worldwide for installed solar per capita

#6 worldwide for annual PV market (4.8 GW)

#7 worldwide for total installed PV (16.3 GW)
 Est \$7.6 Billion AUD per annum
 >\$26B AUD total 2010 - 2019
 >13,000 per year directly employed by PV industry

To 30 Sep 2020

18.5 GW capacity (3.8 GW to date, 2020)
 22.8 TWh (@1400 MWh/MW)
 9.8% demand up from 8.3%
 7.9kW average system size (sub 100 kW)



- ends -

[Full Report](#)



Trends in Photovoltaic Applications 2020

The IEA's Technology Collaboration Programme was created with a belief that the future of energy security and sustainability starts with global collaboration. The Australian PV Institute, with support from ARENA, leads Australia's engagement in the IEA PV Power Systems program and works with its members to increase the uptake of PV through quality research, data and analysis. This year's report covers the market and industry development up to 2019 and highlights some more recently observed trends.

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About the APVI

The Australian PV Institute is a not-for-profit, member based organisation which focuses on data analysis, independent and balanced information, and collaborative research. Our objective is to *support the increased development and use of PV via research, analysis and information.* The APVI promotes solar through its live solar mapping platform [<http://pv-map.apvi.org.au>], the national solar research conference and Australia's participation in two International Energy Agency (IEA) programs – PVPS (Photovoltaic Power Systems) for solar photovoltaics and SHC (Solar Heating and Cooling), concerned with new solar thermal products and services.

www.apvi.org.au