



Snapshot 2022 figures

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What is IEA PVPS?



- The International Energy Agency (IEA), founded in 1974, is an autonomous body within the framework of the Organization for Economic Cooperation and Development (OECD).
- The Technology Collaboration Programme was created with a belief that the future of energy security and sustainability starts with global collaboration. The programme is made up of thousands of experts across government, academia, and industry dedicated to advancing common research and the application of specific energy technologies.
- The IEA Photovoltaic Power Systems Programme (PVPS) is one of the Technology Collaboration Programme established within the International Energy Agency in 1993
- 32 members - 27 countries, European Commission, 4 associations
- *“To enhance the international collaborative efforts which facilitate the role of photovoltaic solar energy as a cornerstone in the transition to sustainable energy systems”*





- Data for non-IEA PVPS countries are provided by official contacts or experts in the relevant countries.
- Data are valid at the date of publication and should be considered as estimates in several countries due to the publication date.
- Please mention our references if you use these figures.

FIGURE 1: EVOLUTION OF ANNUAL PV INSTALLATIONS

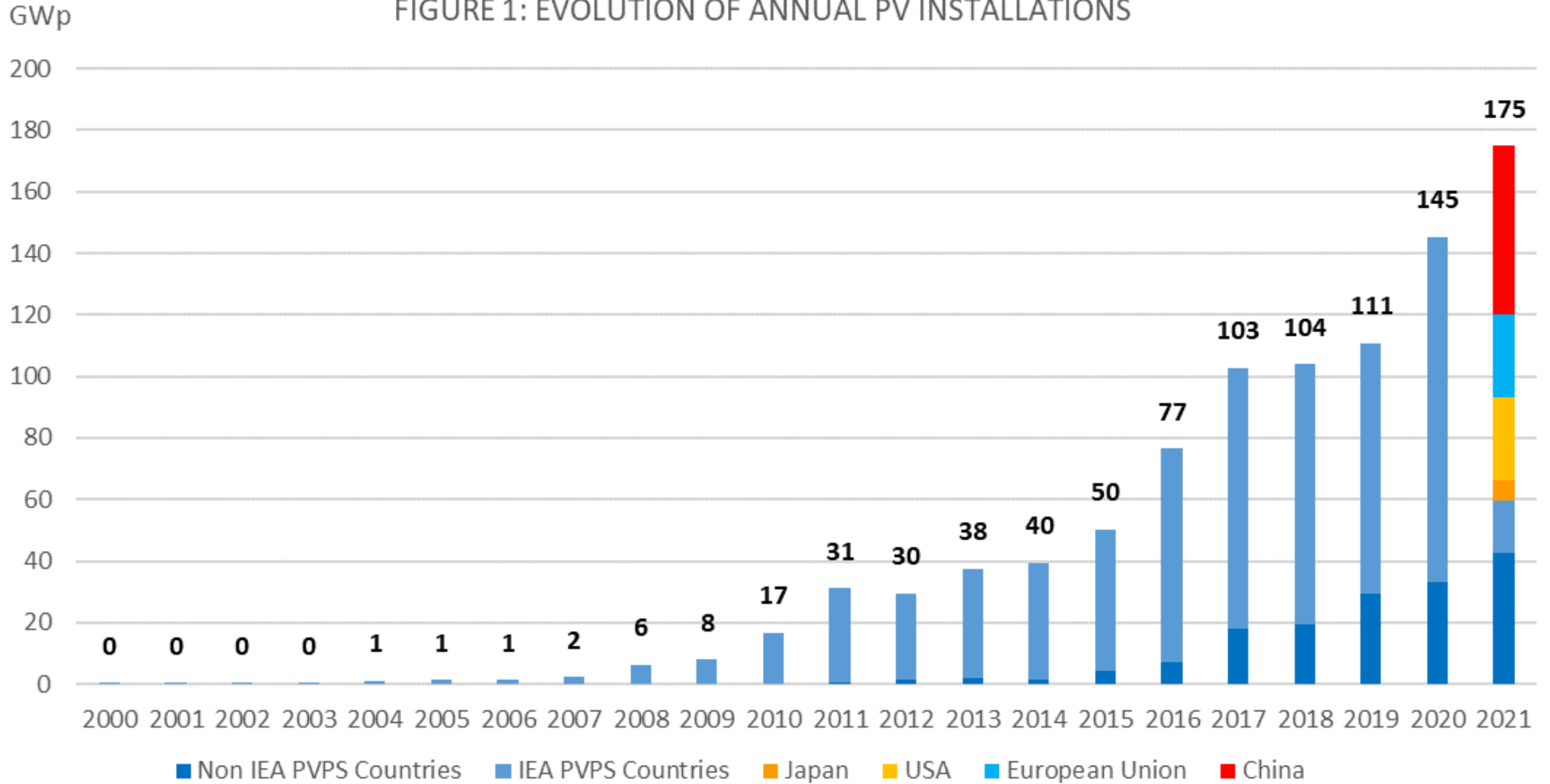


FIGURE 2: 2017-2021 GROWTH PER REGION

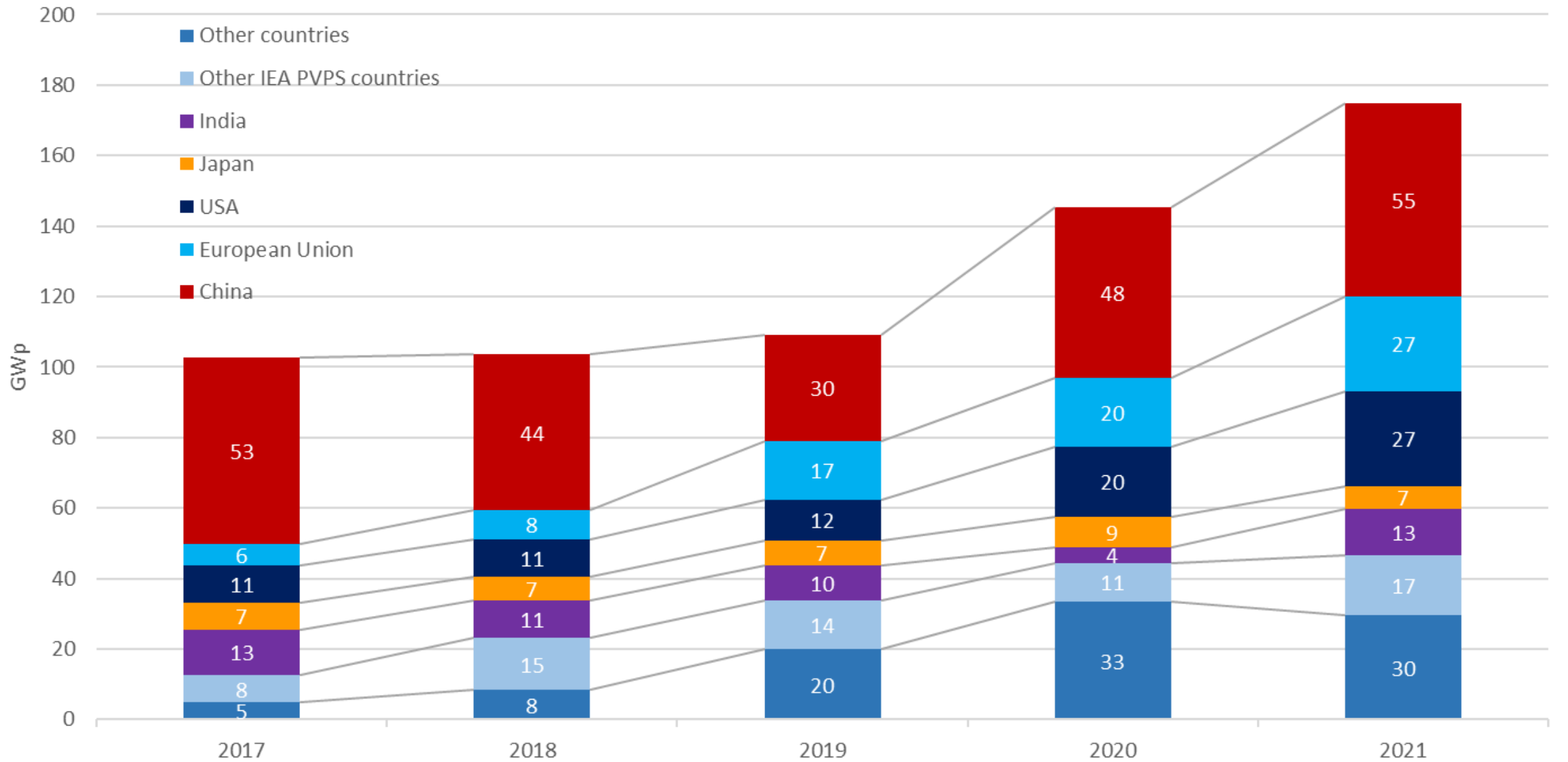


FIGURE 3: SEGMENTATION OF PV INSTALLATION 2011 - 2021

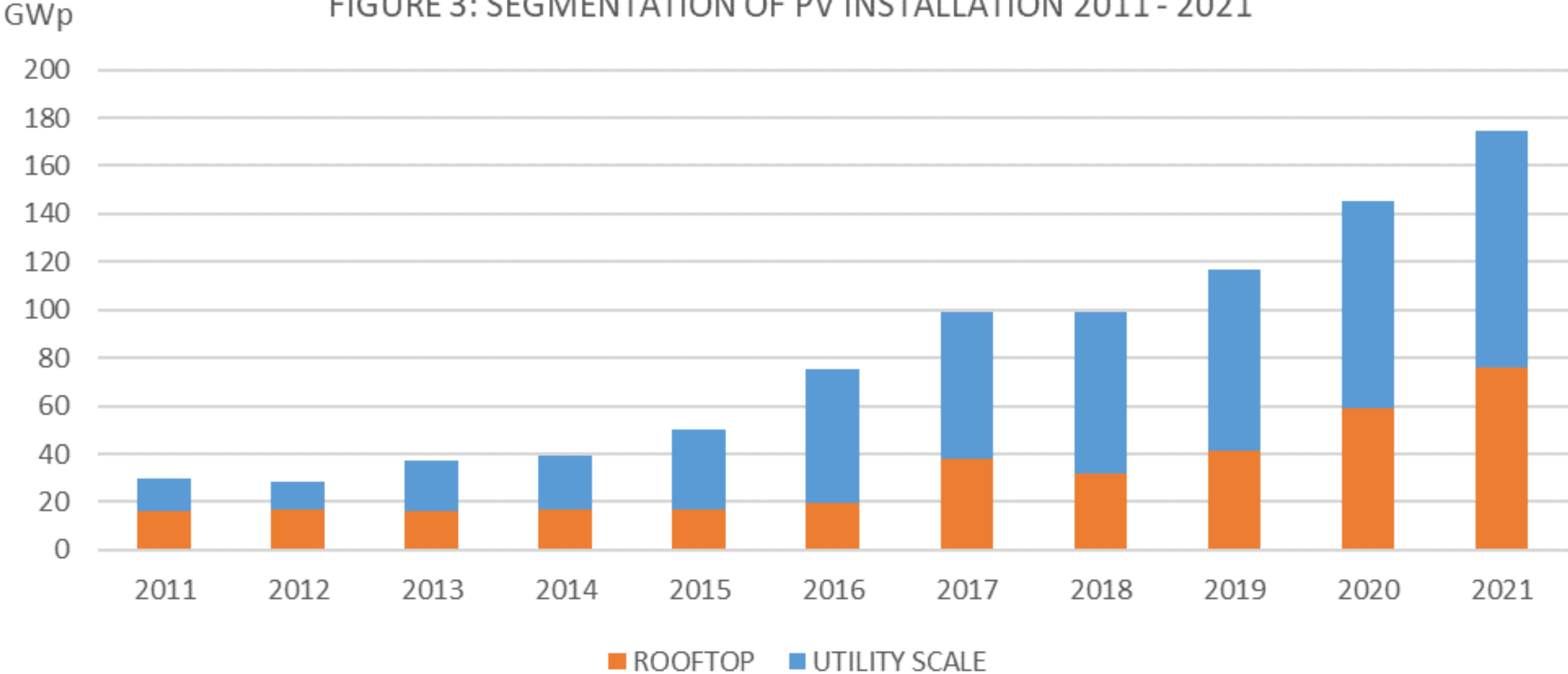


FIGURE 4: GLOBAL EVOLUTION OF CUMULATIVE PV INSTALLATIONS

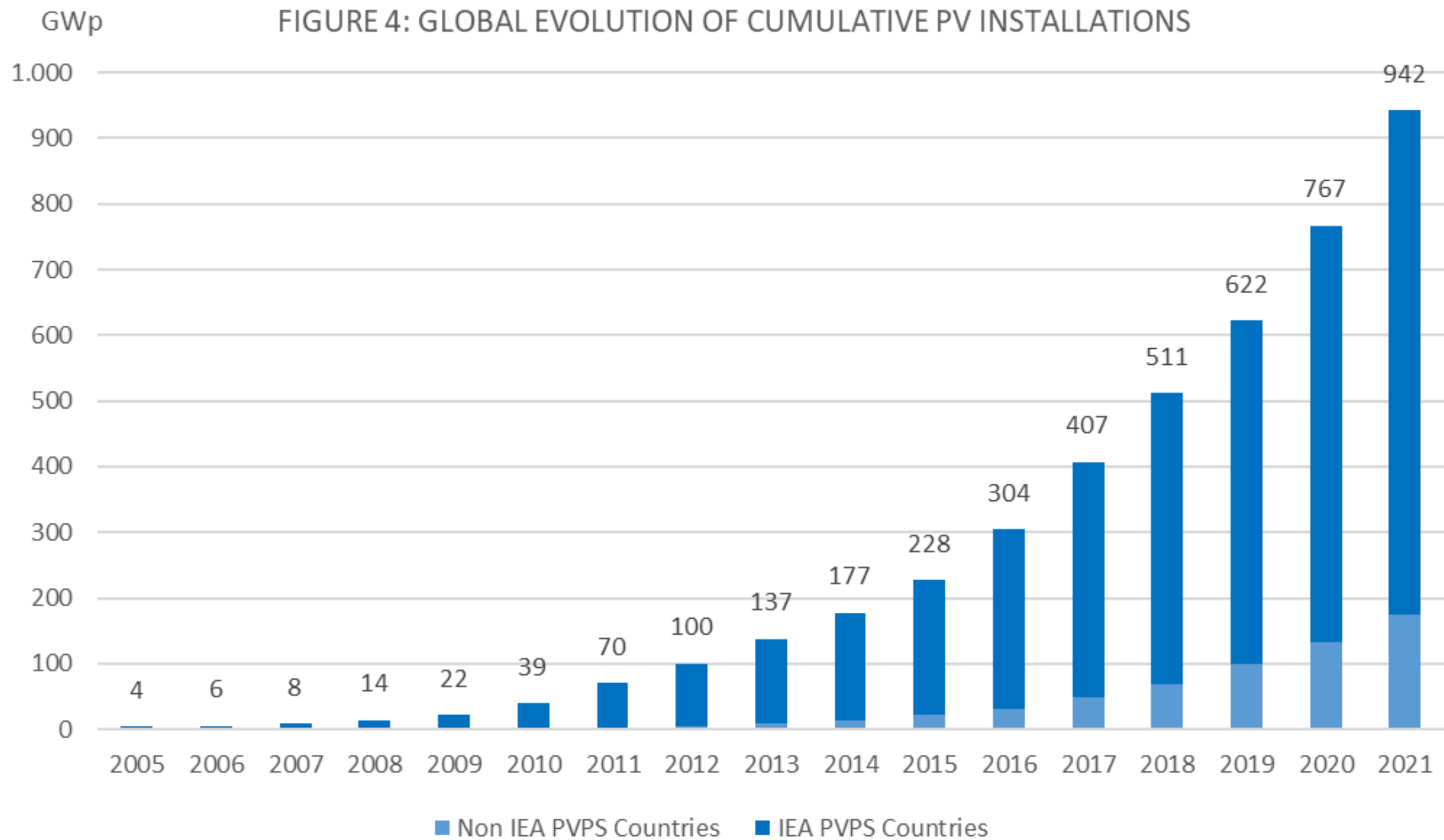


FIGURE 5: EVOLUTION OF REGIONAL PV INSTALLATIONS

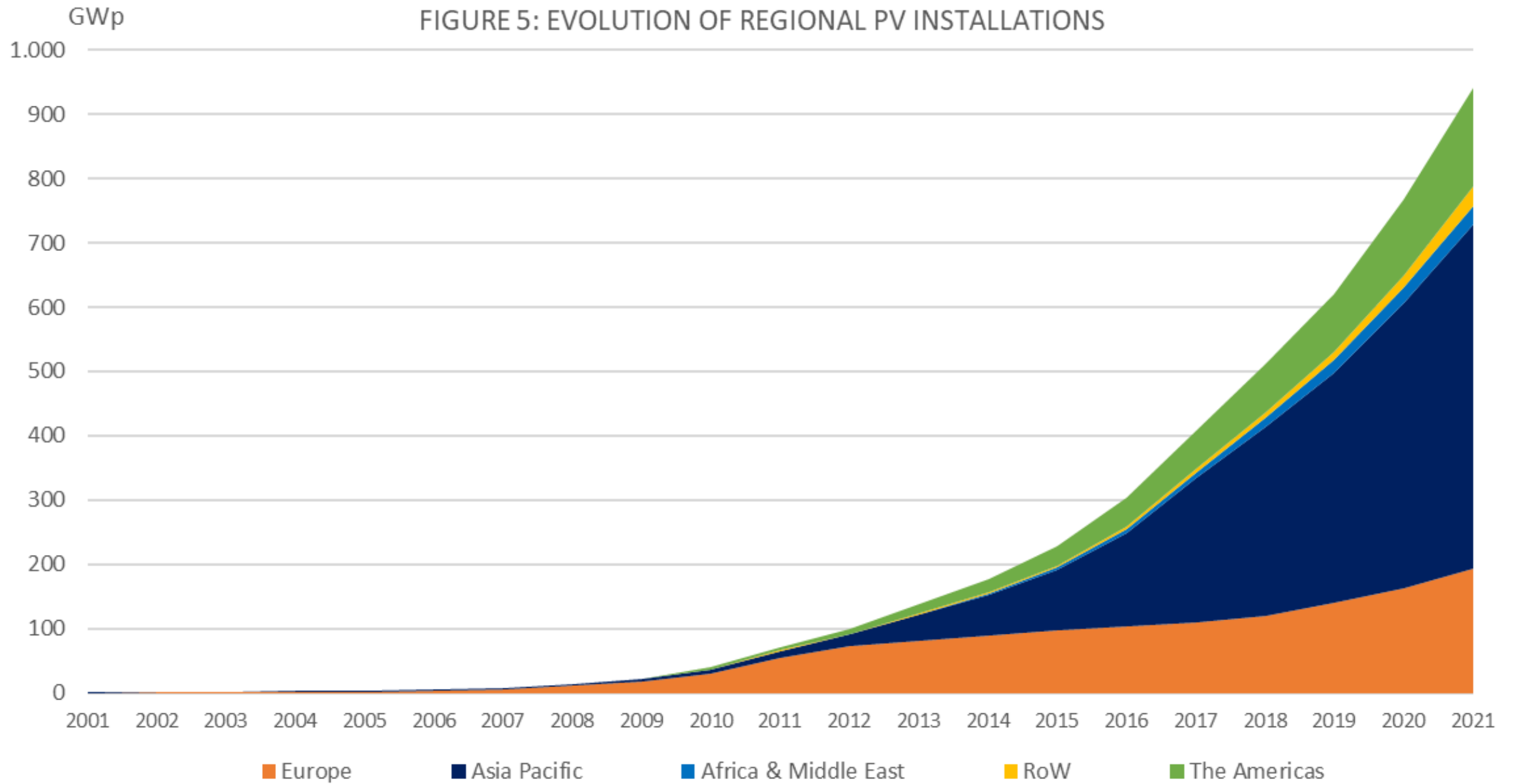


FIGURE 6: THEORETICAL PV PENETRATION 2021

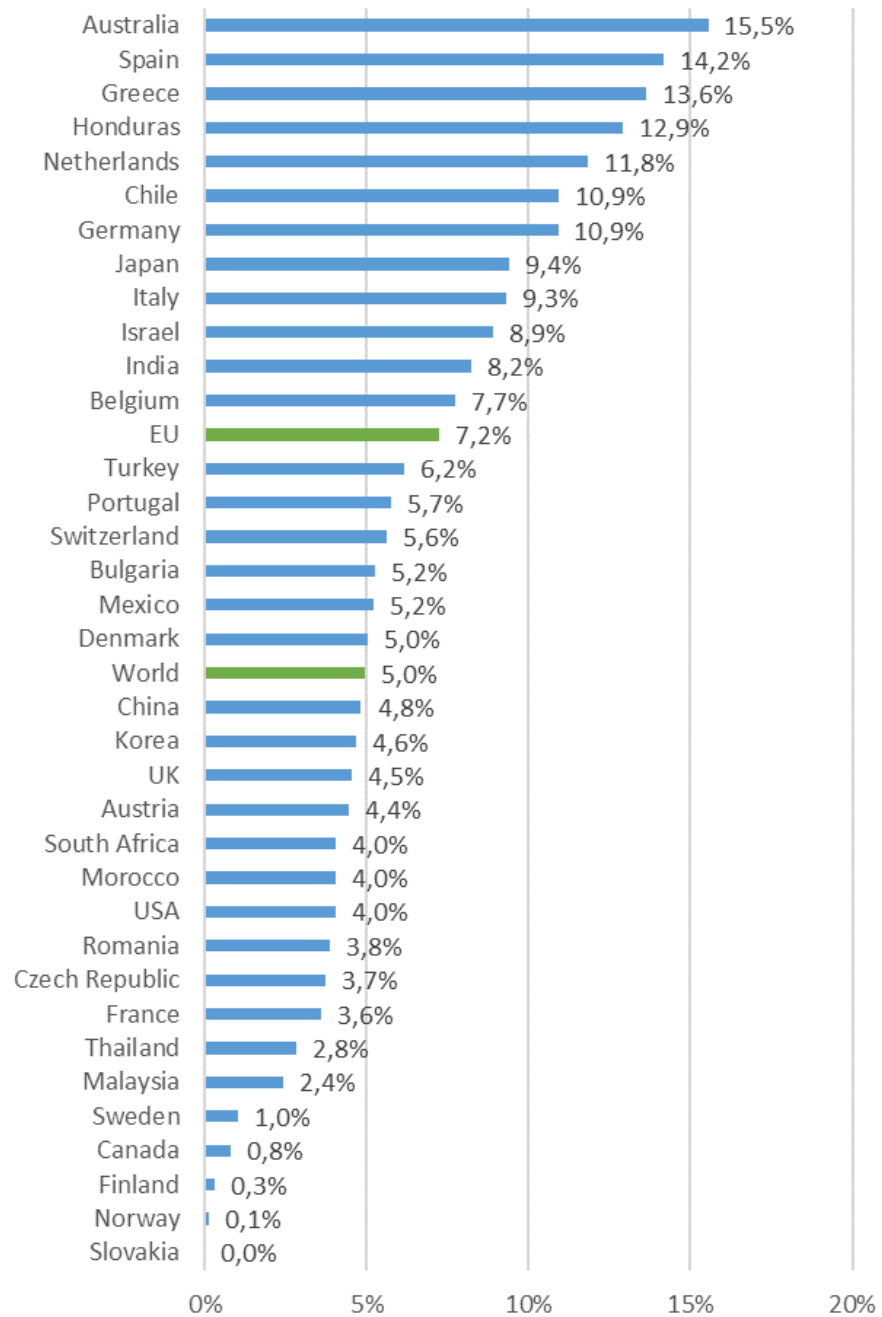


FIGURE 7: EVOLUTION OF RENEWABLE ENERGY ANNUAL INSTALLATIONS

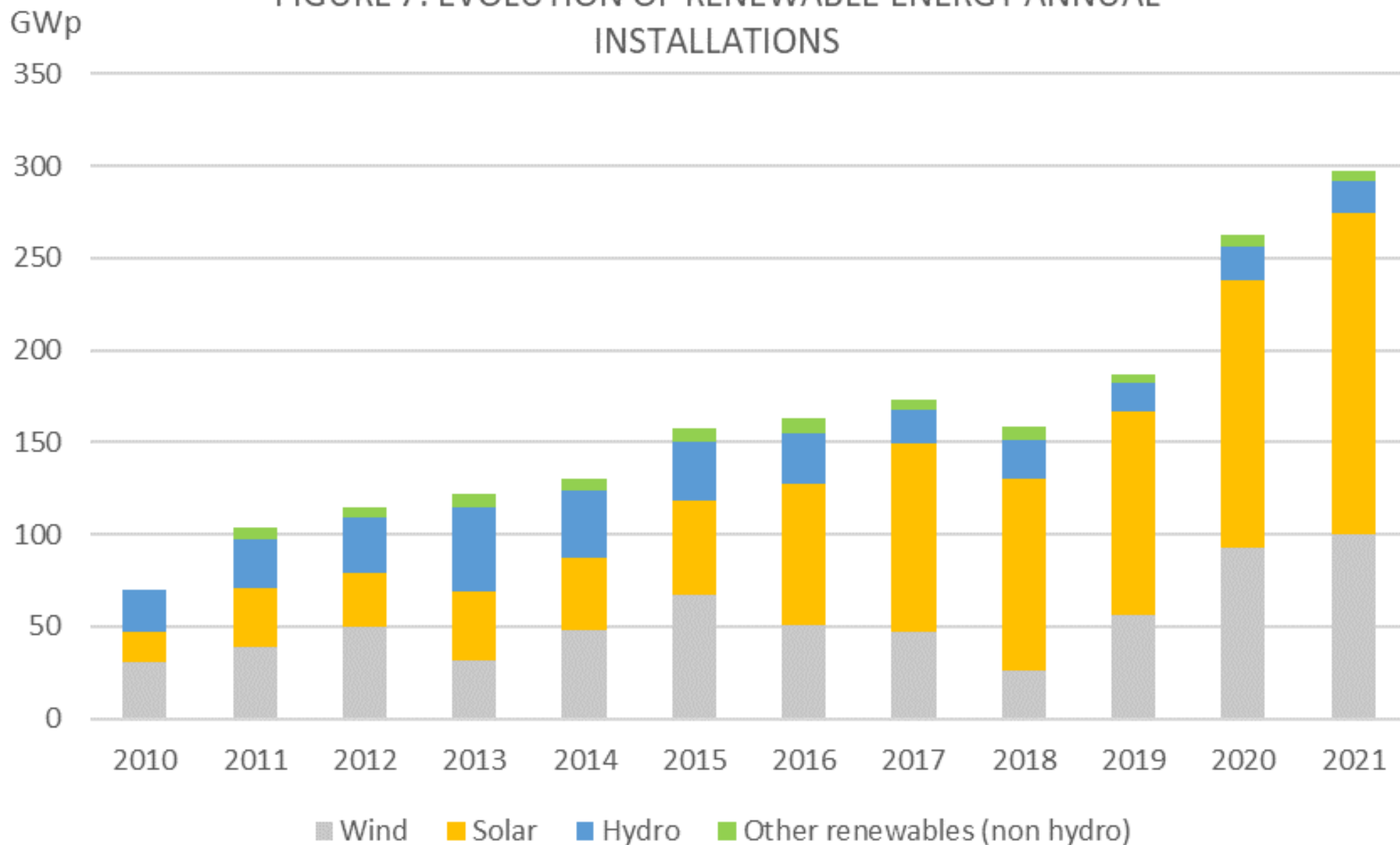


FIGURE 8: ELECTRICITY PRODUCTION OF THE RENEWABLE ENERGY CAPACITY INSTALLED IN 2021

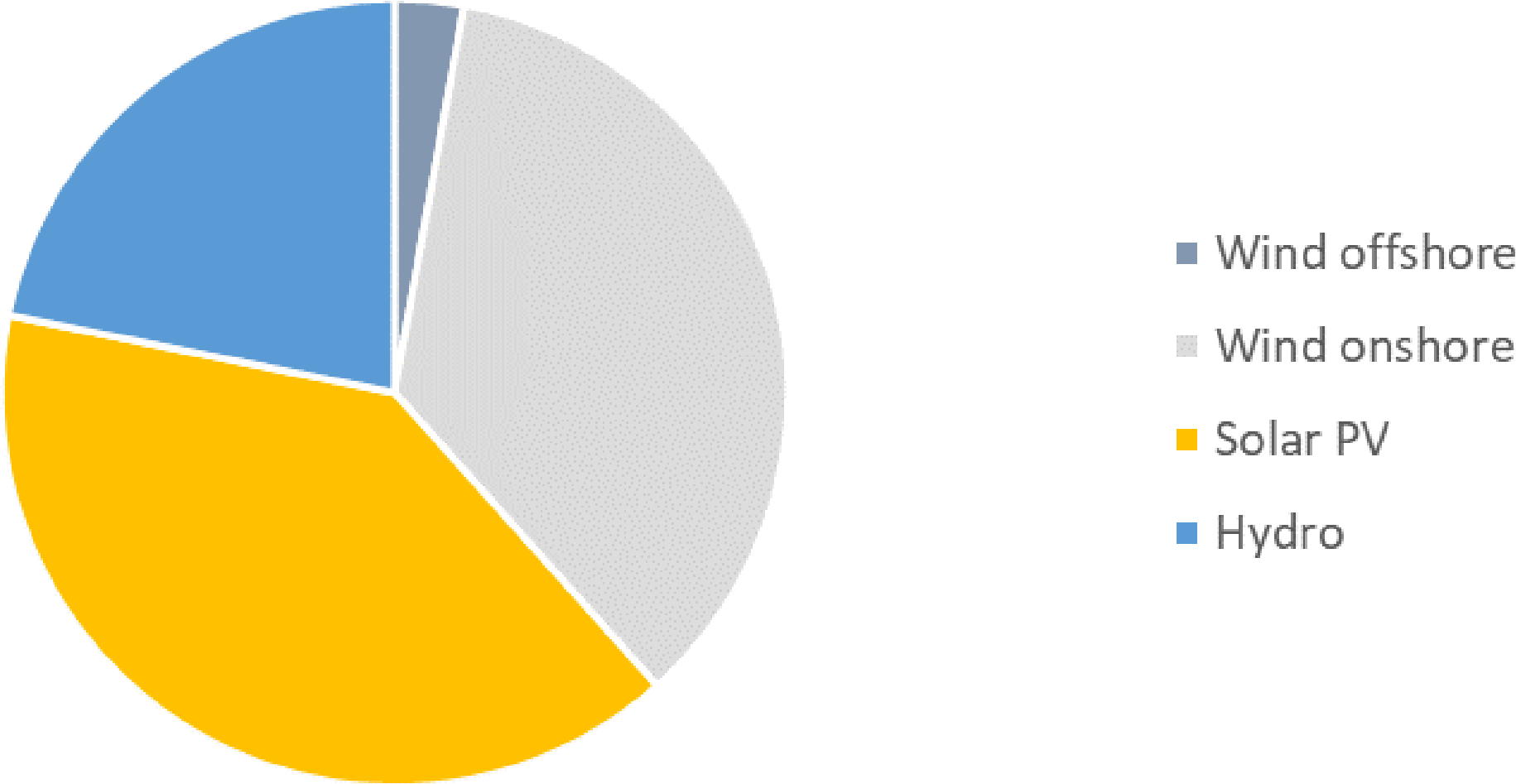


FIGURE 9: EV AND PV ANNUAL GROWTH

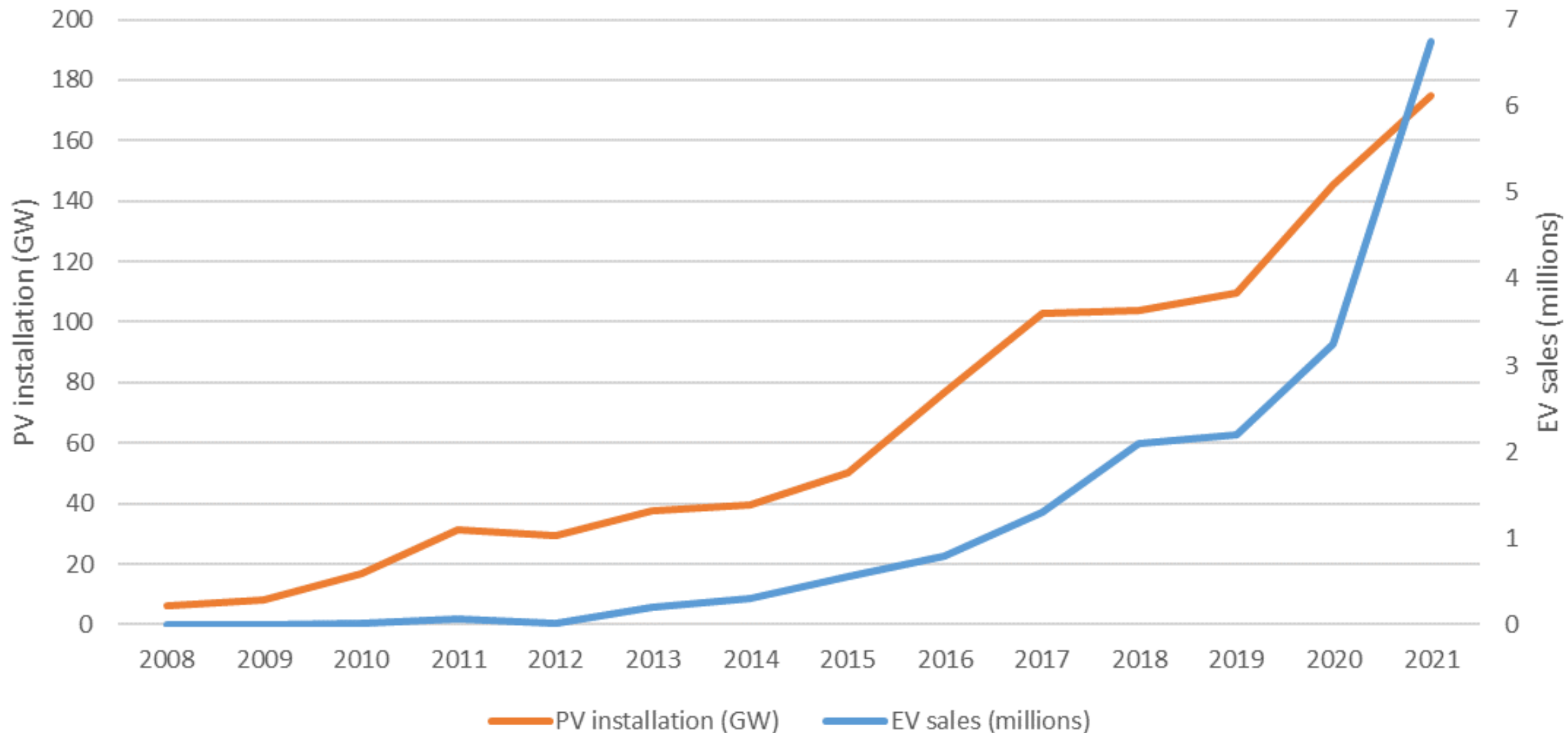
























TABLE 1: TOP 10 COUNTRIES FOR INSTALLATIONS AND TOTAL INSTALLED CAPACITY IN 2021

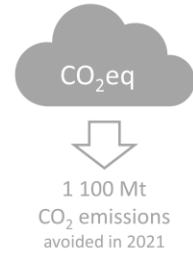
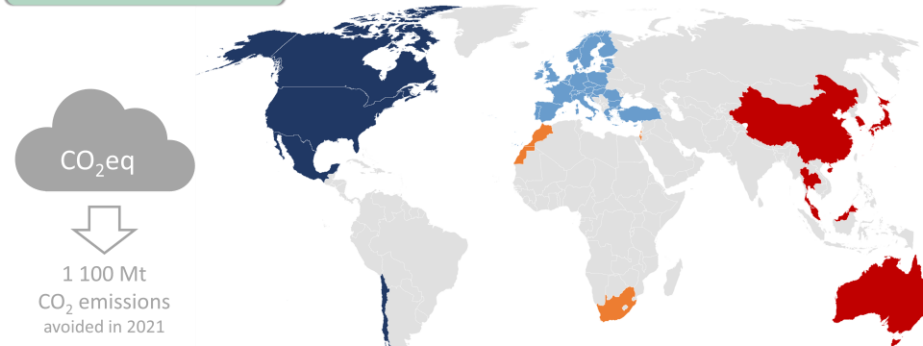
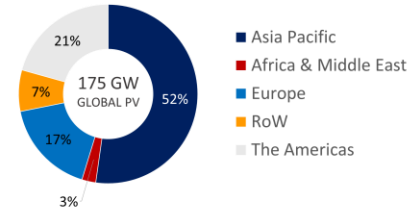
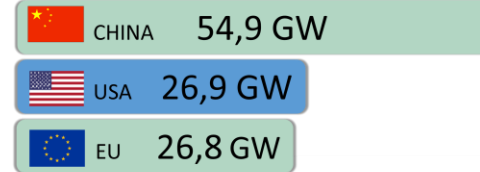
FOR ANNUAL INSTALLED CAPACITY

FOR CUMULATIVE CAPACITY

1		China	54,9 GW	1		China	308,5 GW
2		USA	26,9 GW	(2)		European Union*	178,7 GW
(3)		European Union*	26,8 GW	2		USA	123 GW
3		India	13 GW	3		Japan	78,2 GW
4		Japan	6,5 GW	4		India	60,4 GW
5		Brazil	5,5 GW	5		Germany	59,2 GW
6		Germany	5,3 GW	6		Australia	25,4 GW
7		Spain	4,9 GW	7		Italy	22,6 GW
8		Australia	4,6 GW	8		Korea	21,5 GW
9		Korea	4,2 GW	9		Spain	18,5 GW
10		France	3,3 GW	10		Vietnam	17,4 GW

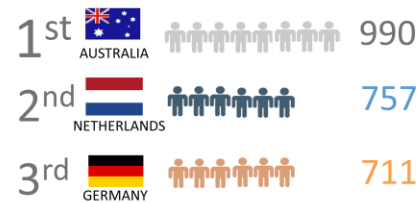
A Snapshot of Global PV Markets

TOP PV MARKETS 2021

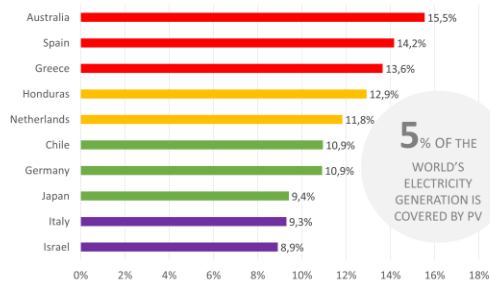


- 942 GW were installed all over the world by the end of 2021
- China is the world's #1 PV market
- 20 countries installed at least 1 GW of PV in 2021
- 15 countries have installed at least 10GW of cumulative capacity at the end of 2021

SOLAR PV PER CAPITA 2021 Watt/capita



COUNTRIES WITH HIGHEST PV PENETRATION



5% OF THE
WORLD'S
ELECTRICITY
GENERATION IS
COVERED BY PV

EVOLUTION OF ANNUAL PV INSTALLATIONS

