

What is the current condition of the photovoltaics sector in Poland?

The following article explains the current condition of the photovoltaics sector both in Poland and worldwide. Recently, a rapid development of solar energy has been observed in Poland and is estimated that the country now has about 700,000 photovoltaics prosumers. In October 2021, the total photovoltaics power in Poland amounted to nearly 5.7 GW.

How important is PV energy in energy production in Poland?

The importance of energy from PV installations in energy production in Poland increased significantly. The share of PV energy in electric power from RES increased from 3% in 2019 to more than 23.3% in 2022 and 4.5% in the total generation structure (four years ago, it was only 0.4%).

Does Poland have a photovoltaic market?

This would cover 26.04% of Poland's electricity needs. The main aim of the article is to assess the level of development of the photovoltaic market in Poland, the genesis of its creation, description of the current situation and determination of the development opportunities.

Does Poland need a photovoltaic strategy?

Poland needs a photovoltaic strategy as the flagship element of the currently updated Polish energy policy and the Polish industrial policy, a strategy understood as a real program to face the challenges. [LIST OF CONTENTS - download](#)

What is the Polish Photovoltaic Association (PPA)?

Association A few words about us ... The Polish Photovoltaic Association (PPA), established in 2019, is the largest industry organisation in Poland supporting the development of large-scale PV installations. Currently, PSF is representing more than 100 entities.

Will PV cover Poland's energy needs?

The previously calculated potential of PV was 153.484 PJ (42.634 TWh) and would cover 26.04% of Poland's electricity needs (Table 3). Covering the roofs of detached houses and apartment blocks would increase this potential even further. Poland's energy transformation should proceed toward an RE energy mix supported by energy storage facilities.

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In Poland, the industrial and large-scale battery energy storage sector is only in its infancy. However, commercial backyard energy storage, complemented by prosumer photovoltaic installations, is growing rapidly, particularly due to falling prices over the past few years and increases in efficiency.

In Poland, PV micro-systems have the largest market share, accounting for over 90% of the installed PV capacity in 2021. Figure 5 shows the number of PV micro-systems established in Poland in the 2012-2021 period.

The total maximum power of the photovoltaic panels is 5.67 kWp, and the battery energy storage is lithium-iron-phosphate LiFePO<sub>4</sub>. The self-consumption ratio for the entire duration (35 days) was around 40 %, indicating that the investment is paying off.

The IEO report „Photovoltaics market in Poland 2023" shows that the year 2022 was very good for the photovoltaic sector in Poland, better even than the record year of 2021. In 2022, photovoltaics was yet again the leader and the main driving power for the increase in RES market in Poland.

To reach a target, the current solar potential in Poland, the photovoltaic (PV) productivity, the capacity of the energy storage in batteries as well as the size of the hydrogen production system were calculated.

Polish Photovoltaics Association is integrating the PV market in Poland, providing space for exchange of knowledge and establishment of new relations, and organising seminars and events. It is the host of the PV Congress -- the largest event of the PV industry in Poland.

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