



# Austria Solar Report

## Prepared by J.v.G. Technology GmbH

J.v.G. Technology GmbH is a German engineering company specializing in turnkey solar module production lines and manufacturing consulting, with project experience ranging from 20 MW to 500 MW per production line, including multi-line and gigafactory projects exceeding this scale.

This Solar Report is part of the **PVKnowHow** Knowledge Network.  
The data, analysis, and conclusions in this document are based on real research, consulting insights, and international solar market data.

**Disclaimer:** This document represents an independent market and manufacturing analysis. It is provided for informational and educational purposes only and does not constitute a commercial offer, binding proposal, or contractual commitment.

Gain comprehensive insights into the statistics and metrics surrounding the solar production industry in Austria

## KEY POINTS

All figures have been converted into USD



## Yearly sunshine (sun hours per year)

Average yearly sunshine: 5.5 hours/day

Peak sunlight hours per day may increase solar energy production.



**kWh per kWp installed**

Typical energy production: 1300-1600 kWh per kWp/year

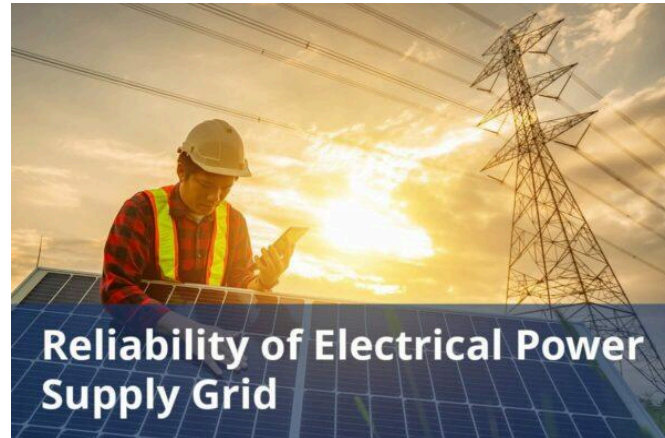
Factors include system orientation and geographical location.



**Average cost per kWh from utility company**

Average cost of electricity: \$0.124/kWh

Comparison for various sources included.



## Reliability of electrical power supply grid

Solar energy is highly reliable in sunny regions.

Reliability can vary based on weather patterns.



# DETAILED INFORMATION

All figures have been converted into USD

## Total solar panel production capacity (installed)

Total solar panels installed as of 2023: 3 million

This includes residential and commercial installations.

### **Total solar panel production capacity (projected)**

Projected total solar panels by 2025: 5 million

Increase in installations expected due to incentives.

### **Average costs of various electricity generation sources (coal, natural gas, solar, etc)**

Average installation cost: \$2.50 per watt

Costs may vary based on panel type and installation fees.

### **Percentages of various electricity generation sources (coal, natural gas, solar, etc)**

Percentage of electricity from solar: 10%

This varies by region and electricity demand.

### **Average daily availability of electricity from the national grid (measured in hours)**

Solar energy available during daylight hours

Production is highest during peak sunlight.

## **Number of residential solar panel installations**

Number of residential solar panels installed: 1.5 million

This reflects growth in residential solar adoption.

## **Total number of solar farms (installed and projected)**

Number of solar farms in operation: 800

Farm sizes range significantly across different regions.

## **Off-grid market demand for solar panels (current and projected)**

Off-grid market demand for solar panels (current and projected):

In the first quarter of 2024, Austria installed 497 MW of photovoltaic capacity, primarily driven by private households taking advantage of VAT exemptions for small systems.

The demand for off-grid solar panels in Austria is driven by several factors:

- High Electricity Costs: Rising electricity prices encourage individuals and businesses to invest in self-generated solar power to reduce reliance on the grid.

- Technological Advancements: Improvements in solar technology and decreasing costs of solar panels make off-grid systems more accessible and economically viable.
- Environmental Concerns: Growing awareness of climate change and the need for sustainable energy sources motivate consumers to adopt off-grid solar solutions.
- Regulatory Support: Government incentives and policies promoting renewable energy adoption enhance the attractiveness of off-grid installations.

## **On-grid market demand for solar panels (current and projected)**

On-grid market demand for solar panels (current and projected): Austria's on-grid solar panel market is experiencing significant growth. In 2022, over 1 GW of solar capacity was installed. Projections indicate an annual addition of 1.2 to 1.5 GW through 2030, aiming for a total of 13 GW to meet renewable energy goals. Despite growth, demand may stabilize due to economic uncertainties and grid expansion issues. Challenges include securing grid-connection permits, with 66% of industry respondents citing this as a major hurdle, and regulatory delays at federal and municipal levels slowing development. Economic factors like rising investment costs and land use conflicts further hinder progress.

## **Average monthly income of workers in solar industry (labor cost)**

Average monthly income of workers in solar industry (labor cost):  
The average monthly salary in Austria is \$3,269.  
The average monthly salary for Solar Photovoltaic Installer is \$4,687.

The average monthly salary for a Solar Engineer is around \$4,290.

## **Population of the country**

Population of the country:

The current population of Austria is 8979047.

## **Average overhead costs of solar panel production (with a brief breakdown)**

Average overhead costs of solar panel production (with a brief breakdown):

Estimate for Factory Rent:

Industrial space rents in Austria typically start from around \$6.87 per square meter.

Industrial Electricity Rates:

The average industrial electricity rate in Austria is projected to be approximately \$0.24/kWh, reflecting an increase from previous years.

Water Costs:

The average cost of industrial water per cubic meter in Austria varies by region. In Vienna, the industrial water price is approximately \$2.33 per cubic meter, with an additional wastewater fee of \$2.56.

Salaries and Wages:

Workers of solar industry in Austria averagely earn between \$4,290 and \$4,687 monthly, depending on the position.

Rent for Office Space:

The annual rent price for office real estate in Vienna is approximately \$360 per square meter.

Insurance:

In 2024, the projected average expenditure per person in Austria's property insurance market is expected to be \$447.30.

# **A summary of the energy infrastructure**

A summary of the energy infrastructure:

**Electricity Generation:**

Austria's electricity generation is predominantly based on renewable sources, with hydropower accounting for nearly 60% of total electricity production and significant contributions from wind and solar power.

The Austrian government has set ambitious targets to achieve 100% renewable electricity by 2030, necessitating the addition of substantial renewable capacity, particularly in solar and wind energy.

**Transmission and Distribution:**

The transmission and distribution network in Austria is well-developed, enabling efficient electricity flow across the country and facilitating cross-border trade.

**Imports and Exports:**

Austria is a net importer of electricity, with around 8.7 TWh of net imports recorded in 2022.

**Energy Policy and Development:**

The Austrian government has implemented several policies to promote renewable energy and improve energy efficiency.

## **Some of the government regulations surrounding solar panel production**

Some of the government regulations surrounding solar panel production:

**Renewable Energy Expansion Act (EAG):**

This legislation, enacted in 2021, aims to achieve 100% renewable electricity by 2030.

**Citizen Energy Communities:**

The introduction of citizen energy communities allows multiple households to produce, share, and consume renewable energy collectively.

**Technical Standards and Safety Regulations:**

Austria has established various technical standards and safety regulations for solar panel installations.

**Environmental and Planning Regulations:**

Solar projects must comply with environmental regulations and local planning laws, which may involve assessments of land use, environmental impact, and community engagement.

## **Government initiatives in solar panel production (includes investments and subsidies)**

Government initiatives in solar panel production (includes investments and subsidies):

**Next Generation EU Grants:**

Under the Next Generation EU funding program, grants of up to 45% of the installation costs for solar PV systems are available.

**Made in Europe Bonus:**

Austria has introduced a “Made in Europe” bonus for solar systems over 35 kW that use European-made solar modules.

**Austrian Climate and Energy Fund Subsidies:**

In Vienna, grants are available for PV systems with capacities up to 100 kWp, providing \$272.77 per kWp.

**Grants for Green Roof Installations:**

Austria also supports the installation of PV systems on green roofs, offering grants of up to \$436.43 per kWp.

## **Notable solar projects in the country (installed and projected)**

Notable solar projects in the country (installed and projected):

ECOWind Grafenworth Solar PV Park:

A recently commissioned 24.50 MW solar PV park in Lower Austria, contributing significantly to regional renewable energy capacity.

Vienna Airport 8 Solar PV Park:

This 24 MW solar PV facility, operational since 2022, supports Vienna Airport's sustainability goals by harnessing solar power.

Nickelsdorf Solar PV Park:

This 120 MW solar PV power project in Burgenland is under construction and is anticipated to begin commercial operations in 2024.

## **Some of the notable solar companies (plus brief details on what they do)**

Some of the notable solar companies (plus brief details on what they do):

Fronius International:

Headquarter: Pettenbach, Upper Austria

Website: <https://www.fronius.com/en>

Description: Fronius is a leading Austrian company specializing in solar inverters.

Solarvie Austria:

Headquarter: Fohnsdorf, Austria

Website: <https://www.solarvie.at/>

Description: Solarvie Austria is a leading company specializing in solar energy solutions across Austria.



# ABOUT THIS REPORT

This Solar Report is part of the PVKnowHow Knowledge Network, developed by J.v.G. Technology GmbH - a German engineering company, specializing in turnkey solar module production lines (ranging from 20 MW to 500 MW per production line, including multi-line and gigafactory projects exceeding this scale).

All market data, analysis, and conclusions follow JvG's internal consulting standards and international PV market research practices.

## REFERENCES

### All References

1. Current Results (n.d.). Amount of Sunshine a Year in Austria. Retrieved August 7, 2024, from [<https://www.currentresults.com/Weather/Austria/sunshine-annual-average>](<https://www.currentresults.com/Weather/Austria/sunshine-annual-average.php>)
2. International Renewable Energy Agency IRENA (2024, July 31). Energy profile – Austria. Retrieved August 7, 2024, from <[https://www.irena.org/-/media/Files/IRENA/Agency/Statistics/Statistica l%5FProfiles/Europe/Austria%5FEurope%5FRE%5FSP.pdf](https://www.irena.org/-/media/Files/IRENA/Agency/Statistics/Statistical%5FProfiles/Europe/Austria%5FEurope%5FRE%5FSP.pdf)>
3. Country Economy (n.d.). Austria – Household electricity prices. Retrieved August 7, 2024, from <<https://countryeconomy.com/energy-and-environment/electricity-price-household/austria>>
4. Statista (2024, July 8). Average monthly electricity wholesale price in Austria from January 2019 to June 2024\ . Retrieved August 7, 2024, from

<<https://www.statista.com/statistics/1271527/austria-monthly-wholesale-electricity-price/>>

5. Austrian Power Grid (n.d.). APG power monitor. Retrieved August 7, 2024, from <<https://www.apg.at/en/powermonitor/>>

6. Wikipedia (n.d.). Solar power in Austria. Retrieved August 7, 2024, from

<<https://en.m.wikipedia.org/wiki/Solar%5Fpower%5Fin%5FAustria>>

7. PV magazine (2024, January 11). More than 2 GW of PV installed in Austria in 2023, predicts analyst. Retrieved August 7, 2024, from

<<https://www.pv-magazine.com/2024/01/11/more-than-2-gw-of-pv-installed-in-austria-in-2023-predicts-analyst>>

8. Mordor Intelligence (n.d.). Austria Solar Energy Market Size. Retrieved August 7, 2024, from

<<https://www.mordorintelligence.com/industry-reports/austria-solar-energy-market>>

9. Statistics Austria (n.d.). Energy prices, taxes. Retrieved August 7, 2024, from

<<https://www.statistik.at/en/statistics/energy-and-environment/energy/energy-prices-taxes>>

10. Res Legal (2019). Feed-in tariff. Retrieved August 7, 2024, from

<<http://www.res-legal.eu/search-by-country/austria/single/s/res-e/t/promotion/aid/feed-in-tariff-green-electricity-act/lastp/94/>>

11. Database.earth (2022). Electricity Generation of Austria. Retrieved August 7, 2024, from

<<https://database.earth/energy/electricity-generation/austria>>

12. PV magazine (2024, June 28). Austria adds 2.6 GW of PV capacity in 2023. Retrieved August 7, 2024, from

<<https://www.pv-magazine.com/2024/06/28/austrias-pv-capacity-additions-amounted-to-2-6-gw-in-2023>>

13. Power technology (2024, February 15). Top five solar PV plants in operation in Austria. Retrieved August 7, 2024, from

<<https://www.power-technology.com/data-insights/top-five-solar-pv-plants-in-operation-in-austria>>

14. Power technology (2023, July 19). Top five solar PV plants in development in Austria. Retrieved August 7, 2024, from <<https://www.power-technology.com/data-insights/top-5-solar-pv-plants-in-development-in-austria>>
15. PV magazine (2024, June 12). Austria adds 500 MW of PV in Q1\ . Retrieved August 7, 2024, from <<https://www.pv-magazine.com/2024/06/12/austria-adds-500-mw-of-pv-in-q1/>>
16. Marketwide research (2024, April). Austria solar energy market analysis. Retrieved August 7, 2024, from <<https://markwideresearch.com/austria-solar-energy-market/>>
17. PV Magazine (2023, June 27). Austria hits 1 GW of annual solar installations. Retrieved August 7, 2024, from <<https://www.pv-magazine.com/2023/06/27/austria-hits-1-gw-of-annual-solar-installations>>
18. PV Magazine (2023, August 7). Austria publishes map of locations with available grid capacity for PV. Retrieved August 7, 2024, from <<https://www.pv-magazine.com/2023/08/07/austria-publishes-map-of-locations-with-available-grid-capacity-for-pv>>
19. PV Europe (2023, November 29). PV Austria expects over two gigawatts of new photovoltaic capacity. Retrieved August 7, 2024, from <<https://www.pveurope.eu/markets/austria-pv-austria-expects-over-two-gigawatts-new-photovoltaic-capacity>>
20. Housing anywhere (2024, March 27). Your guide to the average salaries in Austria 2023 – 2024\ . Retrieved August 7, 2024, from <<https://housinganywhere.com/Austria/average-salaries-austria>>
21. World salaries (n.d.). Average Solar Engineer Salary in Austria for 2024\ . Retrieved August 7, 2024, from <<https://worldsalaries.com/average-solar-engineer-salary-in-austria/>>
22. Salary expert (n.d.). Solar Photovoltaic Installer. Retrieved August 7, 2024, from <<https://www.salaryexpert.com/salary/job/solar-photovoltaic-installer/austria>>

23. Worldometer (n.d.). Austria population. Retrieved August 7, 2024, from  
<<https://www.worldometers.info/world-population/austria-population/>>
24. Slovenia Invest (n.d.). Industrial units for rent – Leibnitz, Austria. Retrieved August 7, 2024, from  
<https://sloveniainvest.com/property/industrial-units-for-rent-leibnitz-austria/>
25. EB Plus (2023). Cold water and its billing. Retrieved August 7, 2024, from  
<<https://www.ebplus.at/fileadmin/medien%5Febplus/media/energiebera-tung/pdf/Kaltwasser%5FEN%5F%5F221023%5F.pdf>>
26. Statista (2024, March 20). Prime rent for office real estate in Vienna, Austria, from 2013 to 2023\ . Retrieved August 7, 2024, from  
<<https://www.statista.com/statistics/530078/office-real-estate-prime-rent-vienna-austria-europe>>
27. Statista (2024, March). Property Insurance – Austria. Retrieved August 7, 2024, from  
<<https://www.statista.com/outlook/fmo/insurances/non-life-insurances/property-insurance/austria>>
28. Wikipedia (n.d.). Energy in Austria. Retrieved August 7, 2024, from  
<<https://en.wikipedia.org/wiki/Energy%5Fin%5FAustria>>
29. Worldometer (n.d.). Austria electricity. Retrieved August 7, 2024, from  
<<https://www.worldometers.info/electricity/austria-electricity/>>
30. Statista (2024, July 15). Electricity generation in Austria from 2001 to 2023\ . Retrieved August 7, 2024, from  
<<https://www.statista.com/statistics/450390/austria-electricity-generation/>>
31. Balkan green energy news (2023, June 6). Solar power plants in Serbia, North Macedonia, Slovenia and Austria: Regulations are key tool to drive investment. Retrieved August 7, 2024, from  
<<https://balkangreenenergynews.com/solar-power-plants-in-serbia-north-macedonia-slovenia-and-austria-regulations-are-key-tool-to-drive-investment/>>

32. Global legal insights (2024). Energy Laws and Regulations 2024\.  
Retrieved August 7, 2024, from  
<<https://www.globallegalinsights.com/practice-areas/energy-laws-and-regulations/austria/>>
33. Vienna Municipal Administration (2022). Solar Energy Handbook.  
Retrieved August 7, 2024, from  
<<https://www.wien.gv.at/stadtentwicklung/energie/pdf/solarleitfaden-en.pdf>>
34. PV Tech (2024, June 11). Austria introduces “Made in Europe” solar subsidy bonus. Retrieved August 7, 2024, from  
<<https://www.pv-tech.org/austria-introduces-made-in-europe-solar-subsidy-bonus/>>
35. PV Tech (2024, June 14). Austria offers €17.9 million to fund storage. Retrieved August 7, 2024, from  
<<https://www.pv-magazine.com/2024/06/14/austria-offers-e17-9-million-to-fund-storage/>>

For a detailed list of references and additional information, please visit our website with the current report at:

<https://www.pvknowhow.com/solar-report/austria/>

# About J.v.G. Technology GmbH

J.v.G. Technology GmbH is a European engineering and advisory specialist for solar production lines and manufacturing equipment, supporting investors and operators with market, location and production-focused decision frameworks.

[www.jvg-thoma.com](http://www.jvg-thoma.com)

## Contact & Further Information

For further discussion or clarification of manufacturing-related aspects, please contact:

**J.v.G. Technology GmbH**

[www.jvg-thoma.com](http://www.jvg-thoma.com)

[info@jvg-thoma.com](mailto:info@jvg-thoma.com)