



Q2 2022

# Market Feedback Report

**EUROPE**

# Welcome Letter

Thank you for being an active member of LevelTen Energy's renewable energy transaction Platform. The role of our Developer Services team is to deliver innovative products that support your work throughout the project development lifecycle: from the earliest permitting stages to full commercial operation. LevelTen's market intelligence, delivered through our PPA Price Index and reports like this Market Feedback report, give you the greatest insight into PPA price trends.

We're excited to announce even further innovation to help your business succeed. We've just launched MarketPulse, which is cloud-based software that gives you instant access to real-time PPA market data and analytics (request a [brochure](#)). MarketPulse is powered by data from LevelTen's Energy Marketplace, which includes more than 4,500 PPA price offers from credentialed renewable energy developers in 23 countries across North America and Europe. Nearly 665 credentialed developers participate on LevelTen's Energy Marketplace, which represents 92%+ market coverage in North America and 60%+ market coverage in Europe. LevelTen's extensive market coverage means that MarketPulse gives you the most complete and realistic view of the PPA market.

Additionally, LevelTen is happy to share that in Q2 alone, 20 procurements were run on the LevelTen Energy Marketplace, representing more than 3.5 million MWh/year of demand."

On the Asset Marketplace, over 75 developers participated in 7 asset RFP and asset auction processes totaling more than 1 GW of demand

In addition to the pricing intelligence available on the Platform through the Buyer's View and in RFP response feedback, we also provide you with this report – the Market Feedback Report – when you offer or update a standard marketplace price to the Energy Marketplace at least once per quarter. It contains valuable data points from Q2 2022, including PPA prices, market composition breakdowns, and PPA price offer attributes.

We welcome your input as you review these quarterly Market Feedback Reports. Please reach out to your relationship manager or [DeveloperServices@LevelTenEnergy.com](mailto:DeveloperServices@LevelTenEnergy.com) at any time if you have any questions or feedback.

Come meet us in Anaheim at the RE+ event this fall. Schedule a time [now!](#)

Sincerely,

**LevelTen Developer Services Team**

# Products

Escalator	0%
Shape	As Generated
Market Price Floor*	North America: \$0/MWh and None Europe: €0/MWh
Non-Settlement Threshold	North America: None Europe: None
RECs	North America: Project RECs Included Europe: Project GOs Included
Are RECS Green-e Certified	Yes
Balancing Costs	North America: Included Europe: Included and Not Included
Capacity	Not included
Day Ahead / Real Time	North America: Real Time Europe: Day Ahead
Seller's Security	North America: \$100K/MW pre-COD due at PPA execution, \$100K/MW post-COD Europe: \$92.5K/MW pre-COD due at PPA execution, €92.5K/MW post-COD
Buyer's Security	Investment Grade Credit Rating: No security posting Below Investment Grade Credit Rating: \$100K/MW due at PPA execution
Settlement Period	Monthly
Delay Damages	North America: \$250/MW/day Europe: €230/MW/day
Capacity Buydown	North America: \$100K/MW shortfall Europe: \$92.5K/MW shortfall
Availability Guarantee	90% year one, 95% all subsequent years
LevelTen Fee	Not Included in Price
Physical/Financial	North America: Financial Europe: Financial and Physical

\*We've redesigned the pricing input form on the LevelTen Energy platform such that the default option includes a 0 price floor.

# Market Snapshot

## MARKETPLACE METRICS

Percentile (25) of Price	€51.50/MWh
Percentile (50) of Price	€71.00/MWh
Percentile (75) of Price	€77.00/MWh
Average Nameplate Capacity	41 MW

## WIND

Percentile (25) of Price	€51.50/MWh
Percentile (50) of Price	€71.00/MWh
Percentile (75) of Price	€77.00/MWh
Average Nameplate Capacity	41 MW

## SOLAR

Percentile (25) of Price	€45.00/MWh
Percentile (50) of Price	€70.50/MWh
Percentile (75) of Price	€85.00/MWh
Average Nameplate Capacity	34 MW

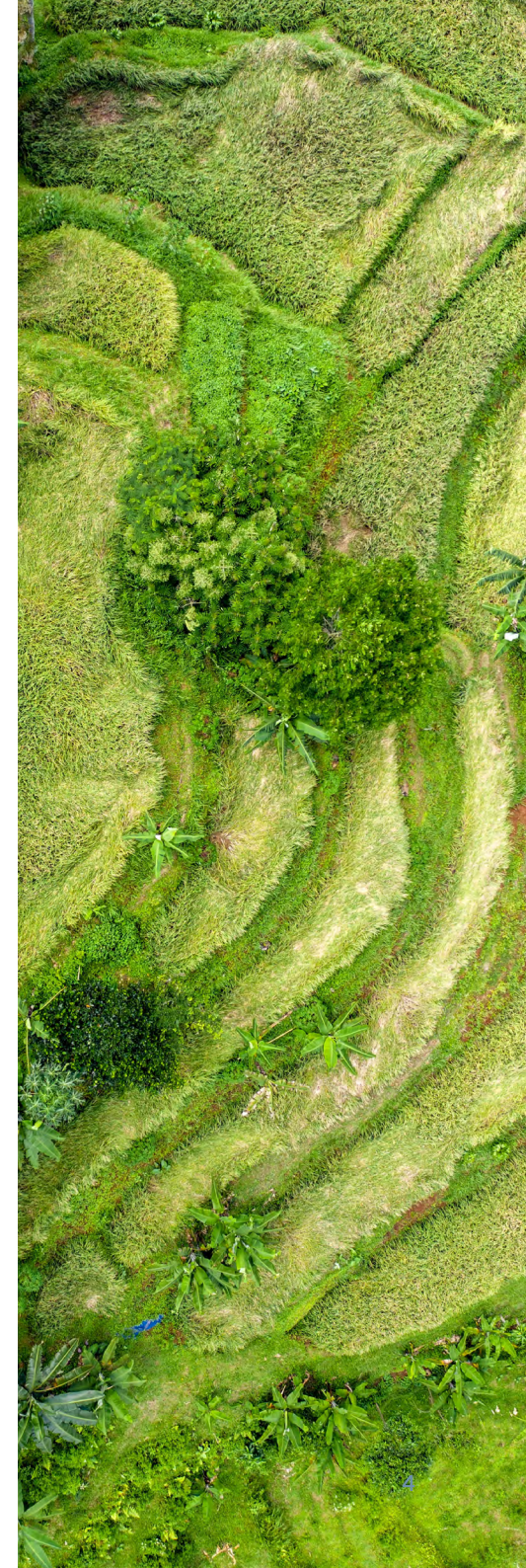
Includes data from the following markets and technologies:

### SOLAR

- Finland
- Sweden
- Poland
- Denmark
- United Kingdom
- France
- Spain
- Italy
- Greece
- Germany

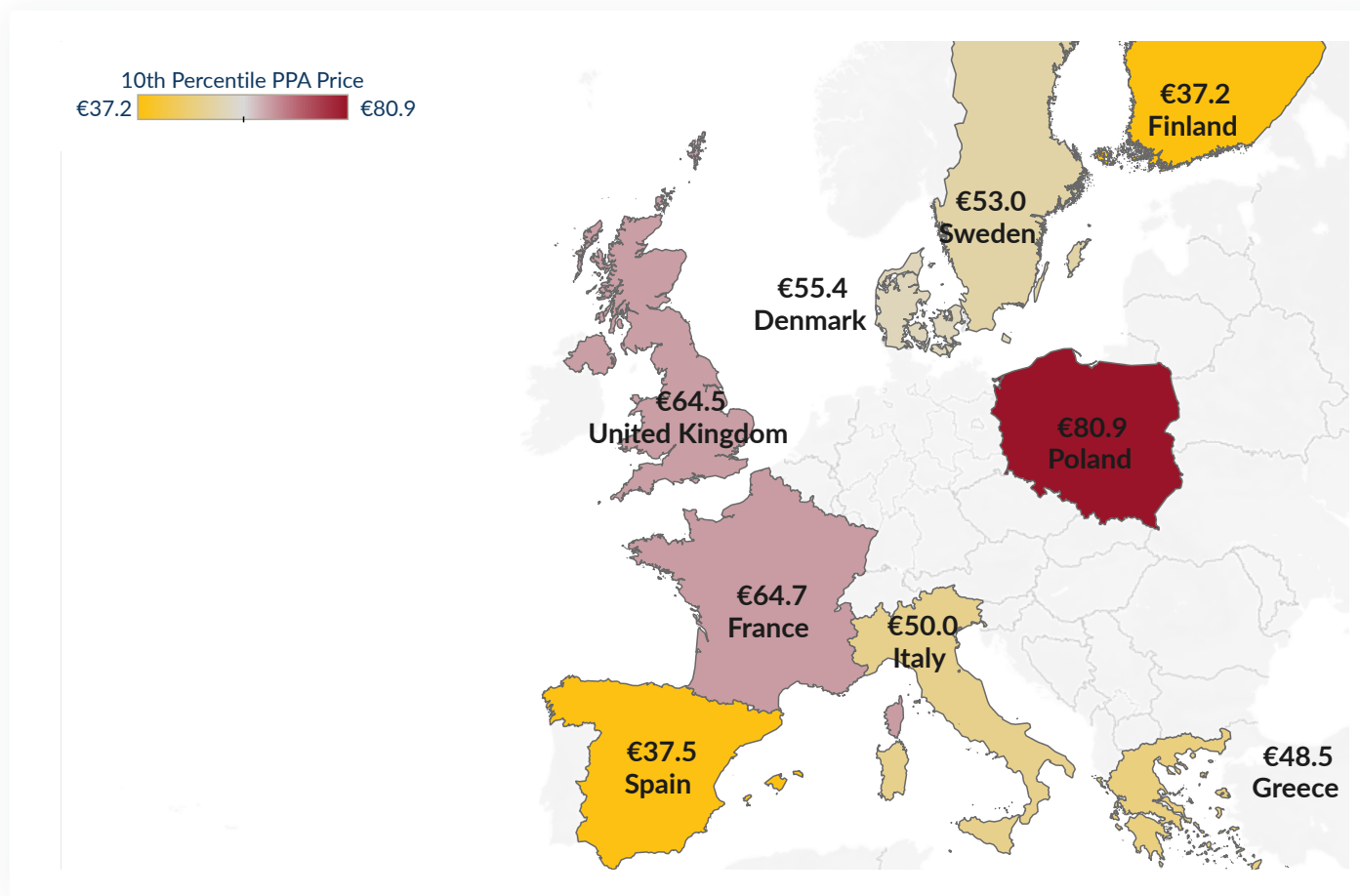
### WIND

- Hungary
- Lithuania
- Ireland
- Finland
- Sweden
- Lithuania
- Greece
- United Kingdom



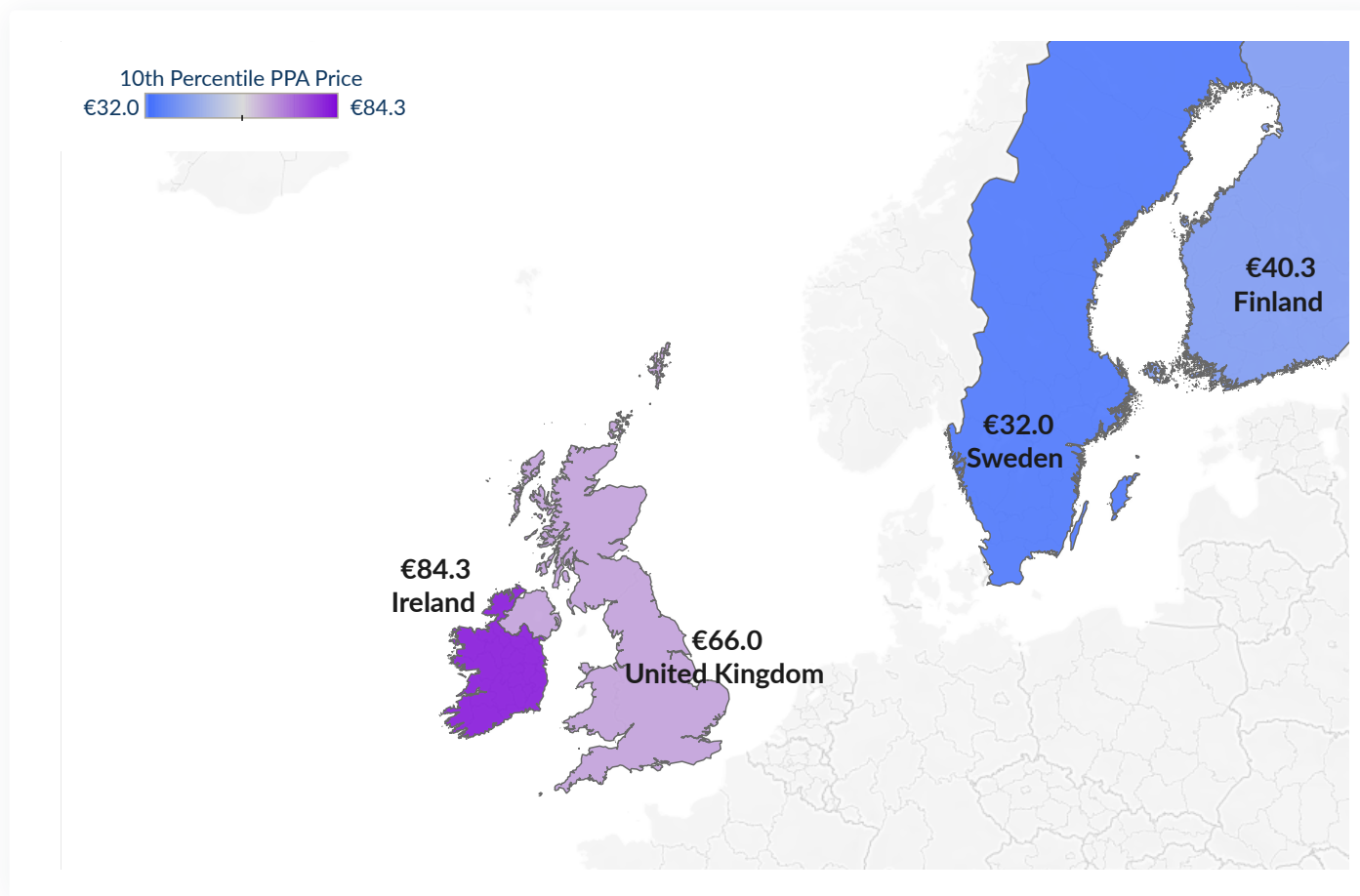
# Solar PPA Prices (P10)

10TH PERCENTILE OF LEVELIZED PPA PRICES (€ EUR/MWH)



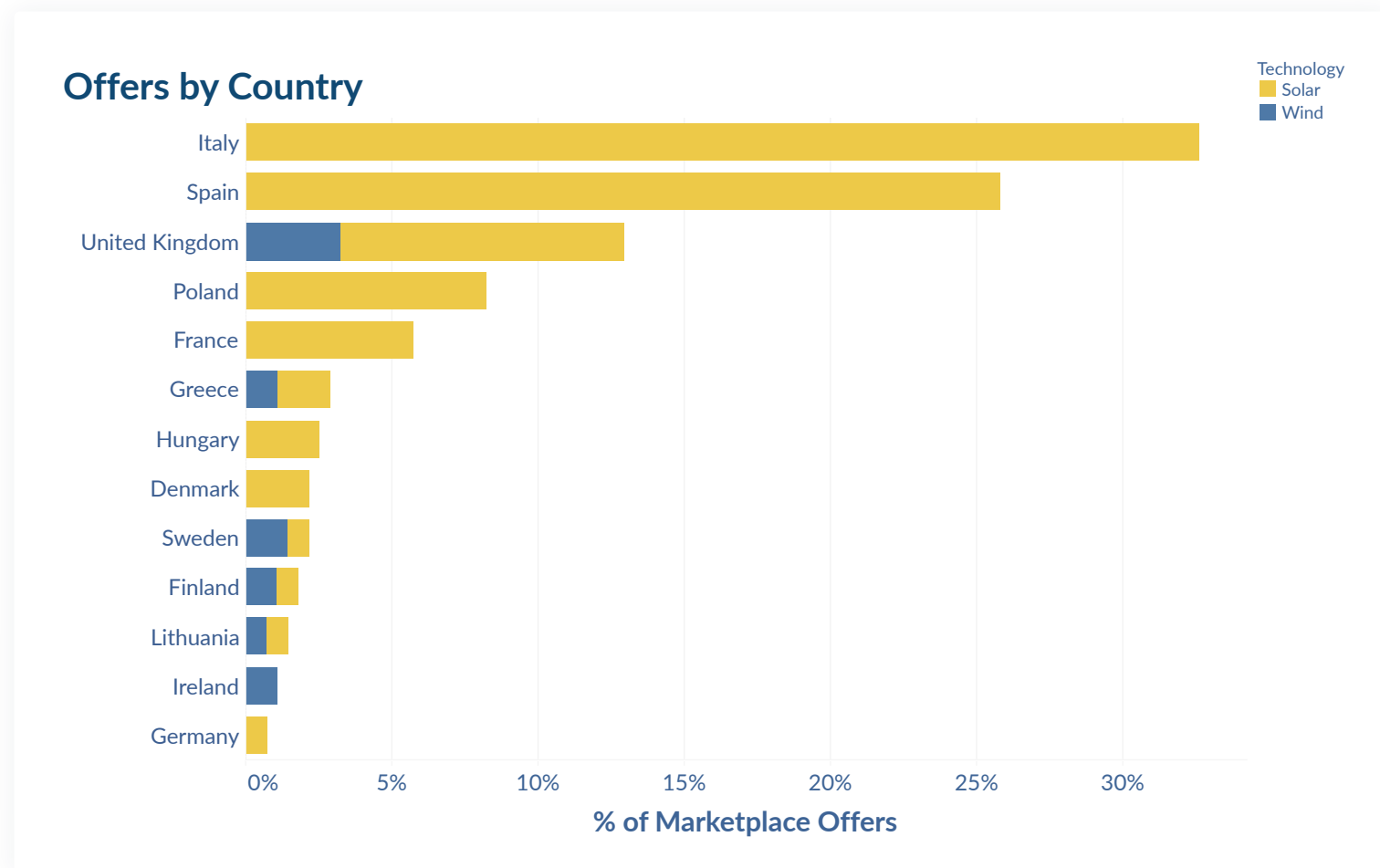
# Wind PPA Prices (P10)

10TH PERCENTILE OF LEVELIZED PPA PRICES (€ EUR/MWH)

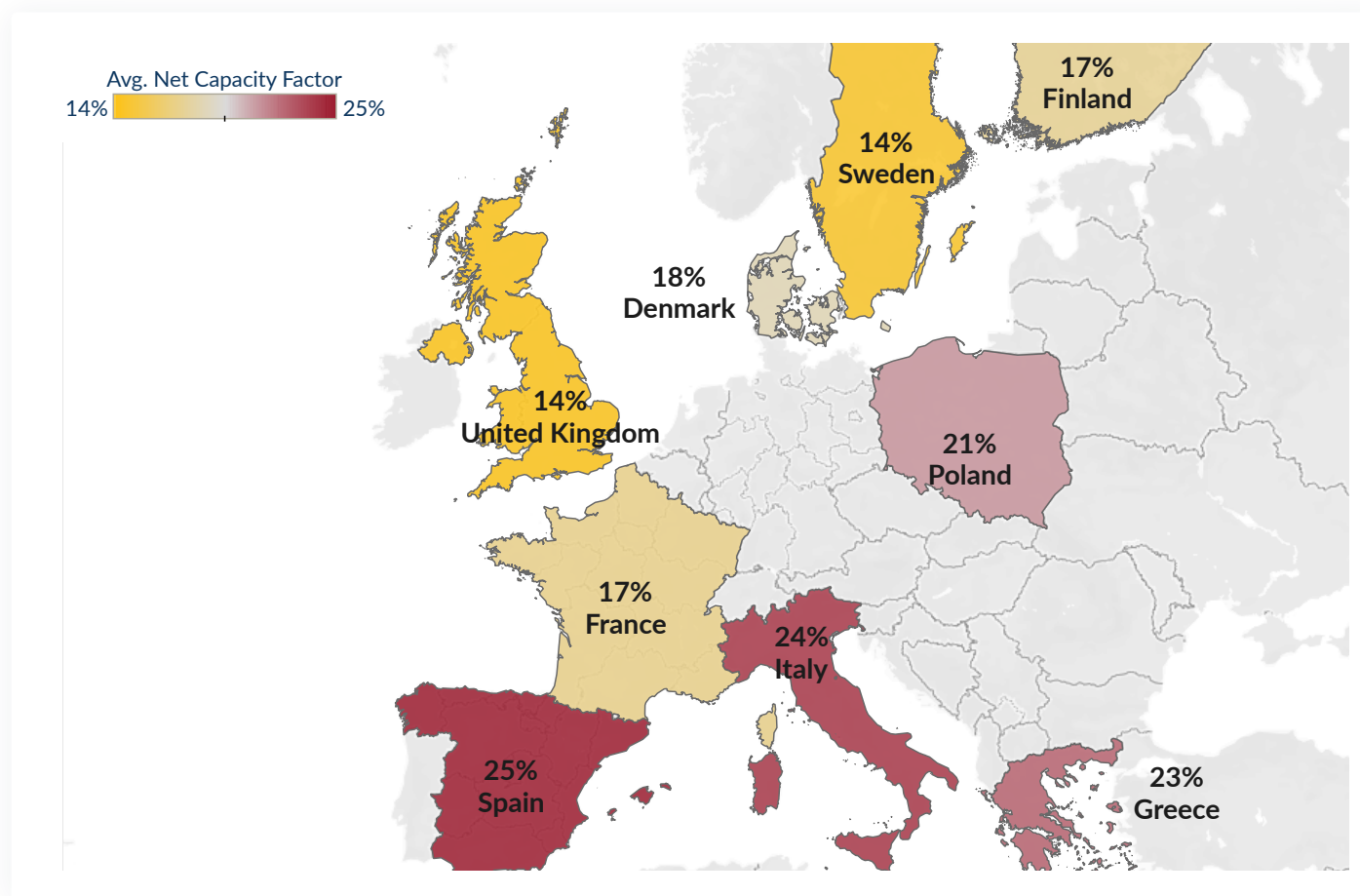


# Marketplace Representation

Excludes countries with projects from fewer than two different developers.

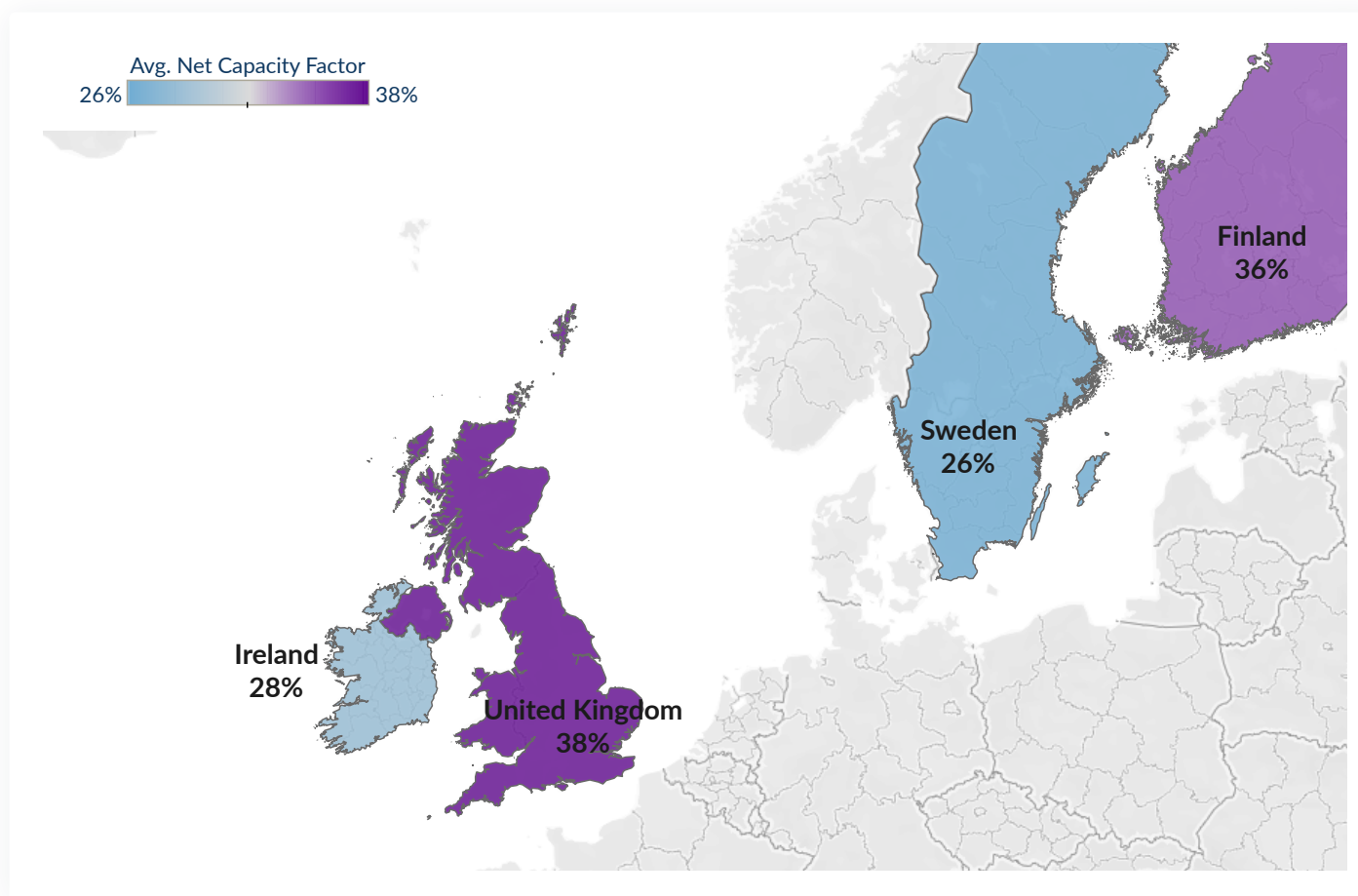


# Solar Net Capacity Factor by Market





# Wind Net Capacity Factor by Market



# Glossary

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## Commercial Operation Date (COD):

The date (Quarter, Year) by which the project will begin operation according to a given price offer, used in this report to represent the start date of the contract.

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## Projected Capture Price Trend:

Generation weighted aggregate forward prices for each ISO broken out by technology. Forwards data is integrated by month for all published future years and are adjusted by technology and ISO specific shape factors. They are then levelized over 15 years with a standard 2% escalator applied for tail contracts years without published data.

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## Negative Covariance:

The ratio of historical revenue calculated with a 12x24 generation profile compared to that calculated with a simulated hourly backcast. Measures any negative relationship between generation and energy prices.

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## Net Capacity Factor:

Based on the project's annual production (sourced from the submitted 8760 file) and nameplate capacity, the percent value calculated by dividing the actual electrical energy output by the maximum possible electrical energy output over the course of the year.

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## Percentile:

The value below which a given percentage of observations in a group of observations falls. Lower (more competitive) PPA Prices fall into lower percentiles (e.g., 25th percentile is better than the 75th percentile for PPA Prices). Conversely, higher Projected Values (more competitive) fall into higher percentiles (e.g., 75th percentile is better than the 25th percentile for Projected Value).

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## Price ("PPA Price"):

The price submitted by developers for each project and conforming to the Standard Marketplace commercial terms (see 'Standard Marketplace Pricing' for details). Certain settlement locations are not included because there are too few data points to maintain project anonymity. Prices from these settlement locations are included in market-level data.

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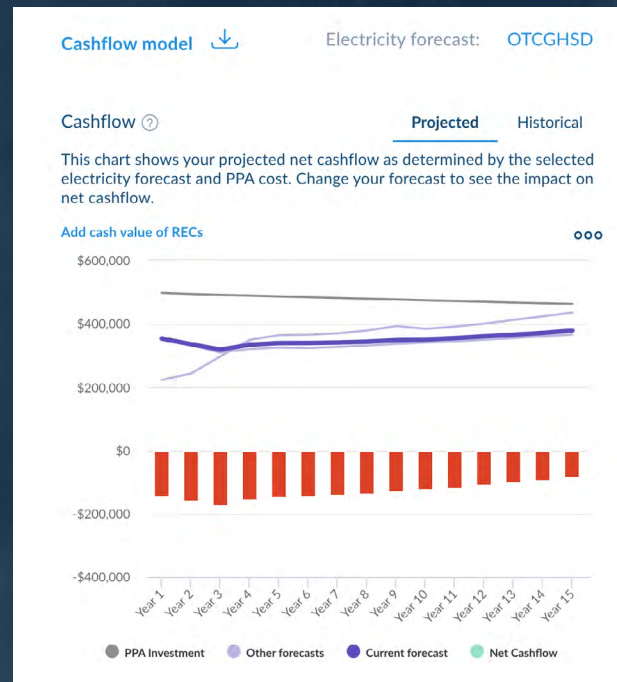
## Projected Value and Projected Settlement Value:

The discounted, levelized Net Present Value per MWh of the VPPA based on the price and commercial details of an offer submitted to the Marketplace. This is determined by calculating the average difference between the PPA Price offered and the forecasted wholesale electricity market prices over the term of the PPA contract. Forward valuations for North American markets are calculated using OTCGH traded forwards with LevelTen's proprietary Shape Degrade ("OTCGHSD") that accounts for higher levels of renewable energy penetration.

# Like What You See in this Market Feedback Report?

Log into your LevelTen account to access real-time market intelligence and project feedback. With the click of a button, you'll have access to a broad set of tools, including those shown below. Keep your project information up-to-date to ensure you're seeing the most relevant insights.

Click here to log in: [marketplace.levelten.energy/login](https://marketplace.levelten.energy/login)



**Solar Project 2628** Retail offer available Save selected plan

LOCATION: PJM - VA PROJECT TOTAL SIZE: 15 MW

TECHNOLOGY: Solar CO2E EMISSIONS AVOIDED: 0.631 MT/MWh

DEVELOPMENT MATURITY: 85/100

SELECTED PRICE PLAN	ANNUAL MWH	TERM	DATE	RECS	SETTLEMENT LOC	PRICE /MWH	PROJECTED VALUE /MWH
<input checked="" type="radio"/> Retail offer 8787	29,434	10 years	Q2 2020	Project	DOM	\$37.25	-\$4.49
<input type="radio"/> LevelTen Std.	29,208	15 years	Q2 2020	Project	DOM	\$35.00	Not Available
<input type="radio"/> LevelTen Std. + Proxy Generation	29,208	15 years	Q2 2020	Project	DOM	\$36.00	Not Available



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