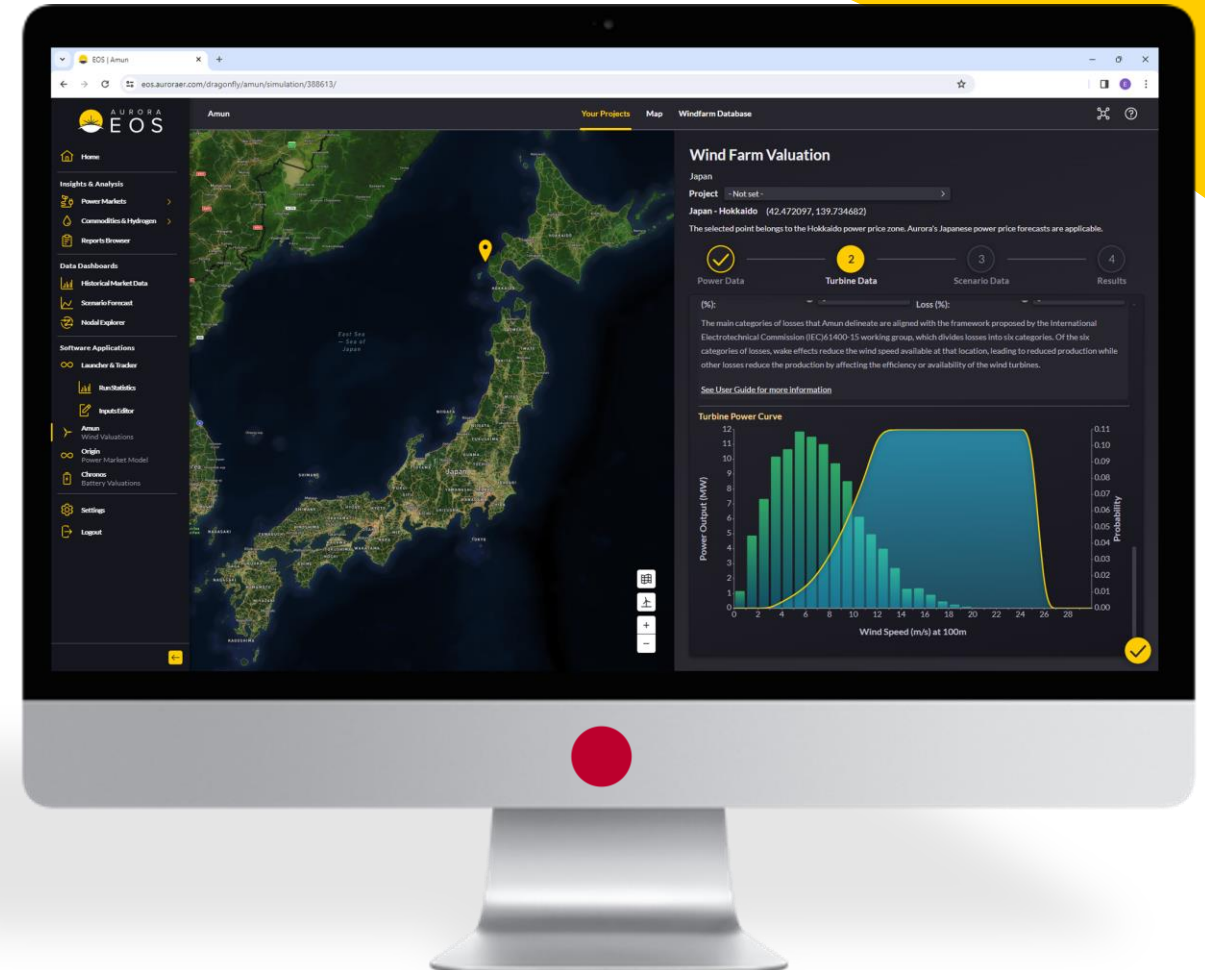




Aurora Software

Find unique value on the road to Net Zero

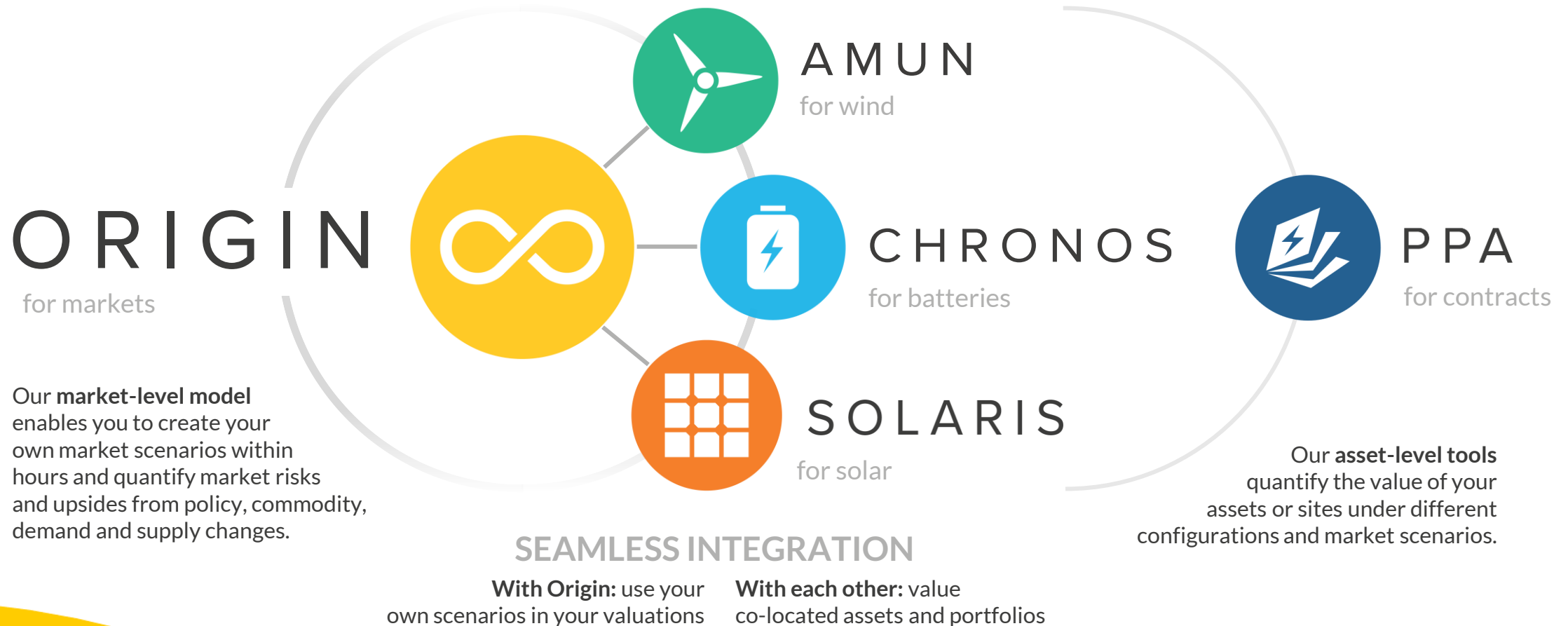
Aurora's integrated software suite empowers **you** to analyze power markets and assets with unprecedented sophistication and ease, helping you build an edge in the crowded market



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Seamlessly integrated suite of software products





AMUN

The #1 wind valuation software

Amun delivers bankable asset-specific revenue forecasts for wind assets in minutes

Over 80 subscribers across 17 markets including leading banks, funds, utilities, and developers

Access an unlimited number of offshore/onshore valuations

With greenfield and operational assets

Backed by Aurora data and supported by experts

Used on Europe's largest wind deals, auctions, and financing

Powered by the most accurate proprietary wind atlas



Transactions



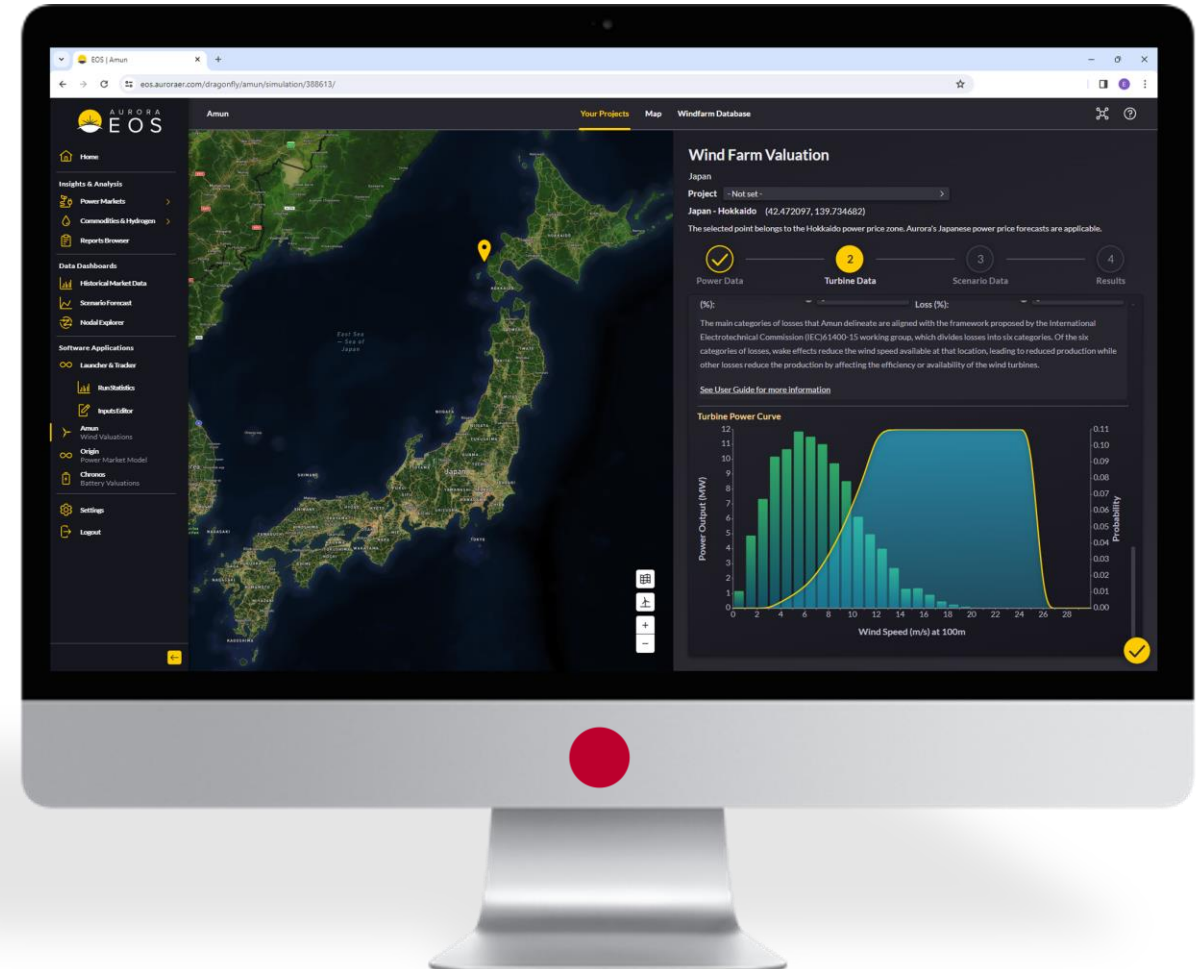
Site Selection
and Optimization



Portfolio
Valuation



PPAs



The rapidly evolving energy transition means asset-specific revenue forecasts become critical

Location is hugely important for capture prices and generation volumes

Both vary greatly across Japan, with the largest load factors typically seen in the North

Using baseload or market-wide prices can vastly over- or under-estimate your revenue forecasts

The first fleet of offshore wind assets will all require government subsidies, but competition is high to secure the most prized land

Understanding location-specific value is critical when bidding for government contracts and offtake agreements



A global benchmark trusted by industry leaders



Vestas



CORIO

INFINERGY

Jera



Ørsted

BLACKROCK

bpifrance

amp



BANKS
Group



skyborn

Foresight
FOR A SMARTER FUTURE



Triodos Bank



octopusenergy



MARTIFER
GROUP



AMUN

60+ subscribing companies
across 17 markets

Supports the largest
transactions globally

Values the biggest wind
portfolios

Underpins major debt
financings

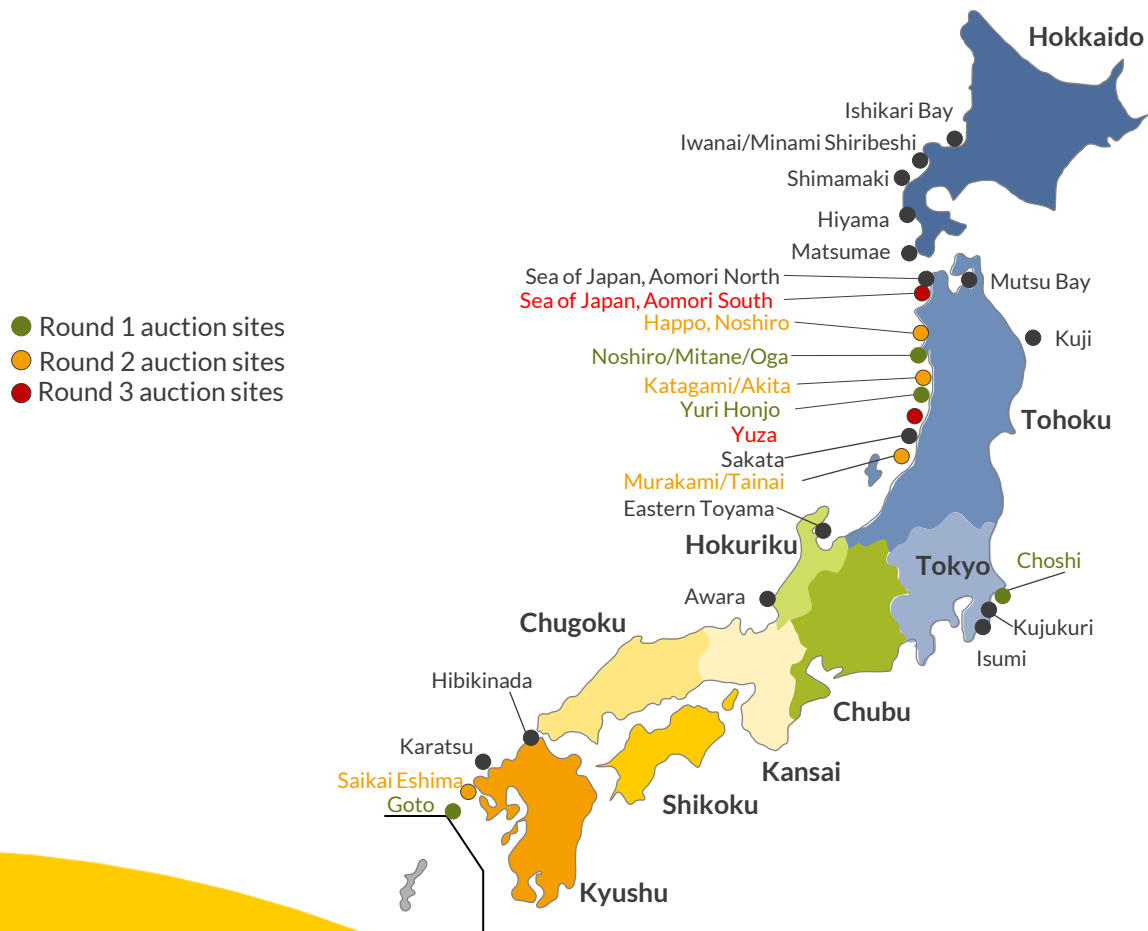
Sets prices for wind
PPA deals

Used by leading developers
for site selection and
optimization

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Japan's Government has identified initial “promotion zones” to meet the significant offshore wind targets of 30-45GW by 2040

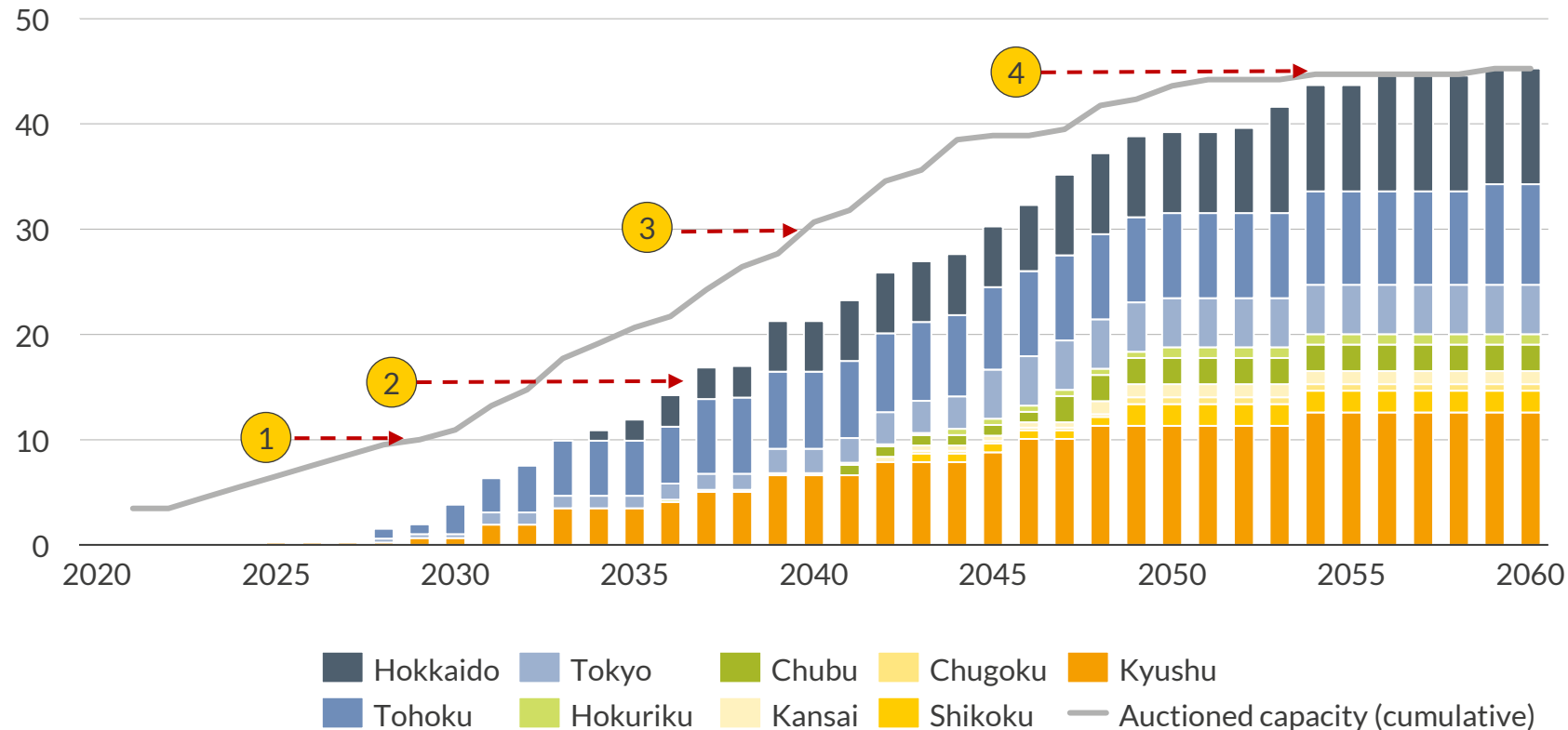


Region	Promotion zone / site	Capacity, MW
Hokkaido	Ishikari Bay	910-1140
	Gan' u/Minami-Shiribeshi	560-710
	Shimamaki	440-560
	Hiyama	910-1140
	Matsumae	250-320
Tohoku	Sea of Japan, Aomori North	300
	Sea of Japan, Aomori South	600
	Mutsu Bay	800
	Kuji	1690
	Happa/Noshiro	356 ⁴
	Noshiro/Mitane/Oga	478
	Katagami/Akita	315
	Yuri Honjo	819
	Yuza	450
	Sakata	500
	Murakami/Tainai	684
	Choshi	360
Tokyo	Kujukuri	400
	Isumi	410
	Eastern Toyama	TBU
Hokuriku	Awara	200
	Hibikinada	220
Kyushu	Karatsu	600
	Saikai Eshima	420
	Goto	17

Aurora's Central expects the target of 45GW of offshore wind capacity to be met by mid-2050s

Offshore wind installation timeline – Aurora Central scenario

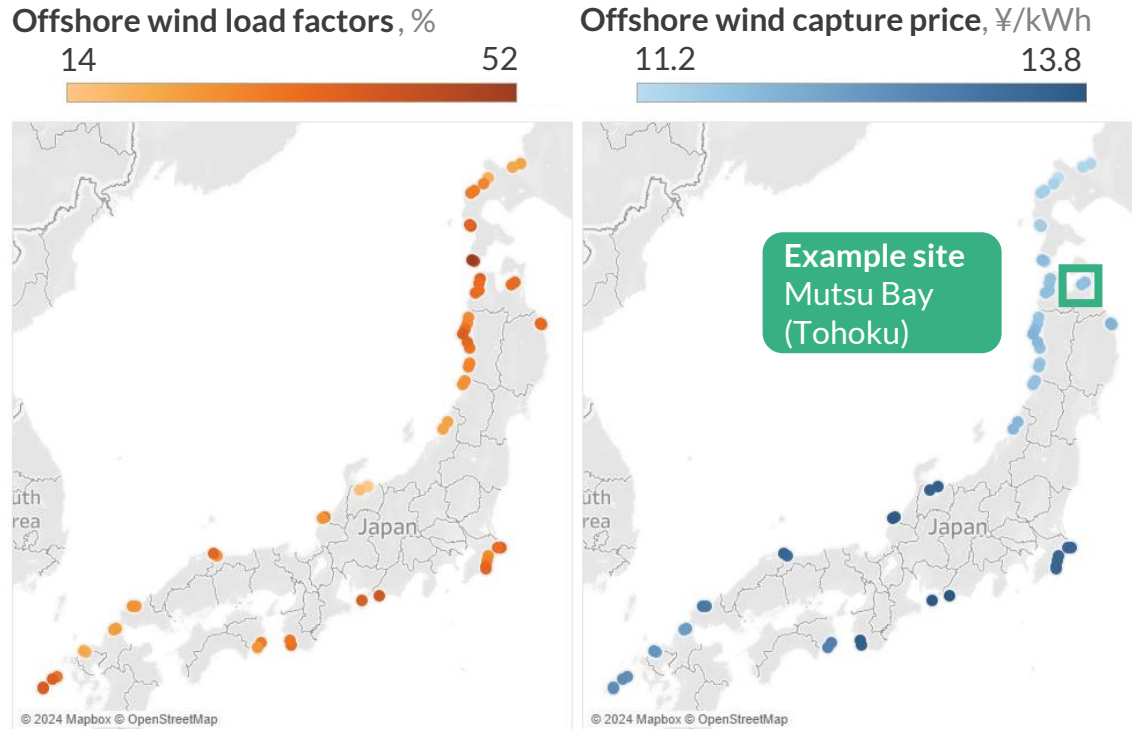
Nameplate, GW



- 1 Given the government target, 10 GW of offshore wind development rights are expected to be auctioned by 2030
- 2 15 GW offshore wind from existing promotion areas, promising areas, and preparation areas identified by METI are expected to be fully delivered by the late 2030s
- 3 Total of 30 GW of offshore wind to be auctioned by 2040 under Aurora Central scenario—on the lower bound of the government's 30-45 GW target
- 4 Japan offshore wind offered at auction to reach ~45 GW by the mid 2050s.

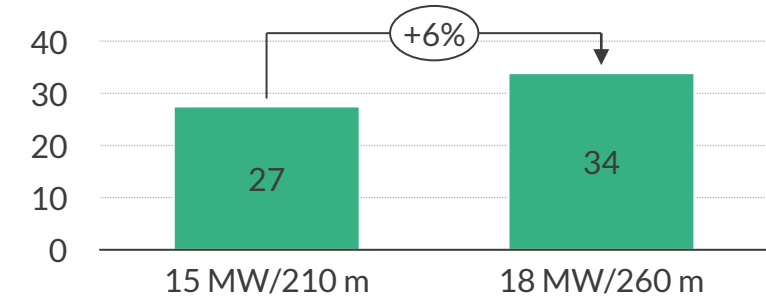
Amun forecasting capabilities in Japan

Capture prices vary by 2.6¥/kWh across potential offshore sites—strongly depending on location and turbine choice

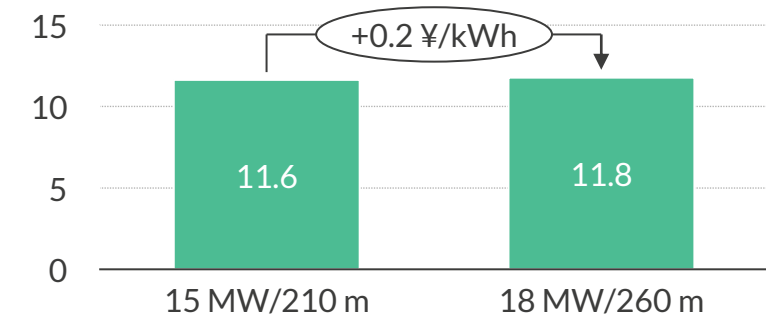


- Capture price is affected not only by price zone, but also by correlation of generation with other wind farms including onshore (cannibalization)
 - Offshore load factors vary by over 30% in ERA5 data, with EYA offering more detailed insights

Load factor of Mutsu Bay site using different turbines, %



Average capture price (2030-2060), ¥/kWh (real 2022)

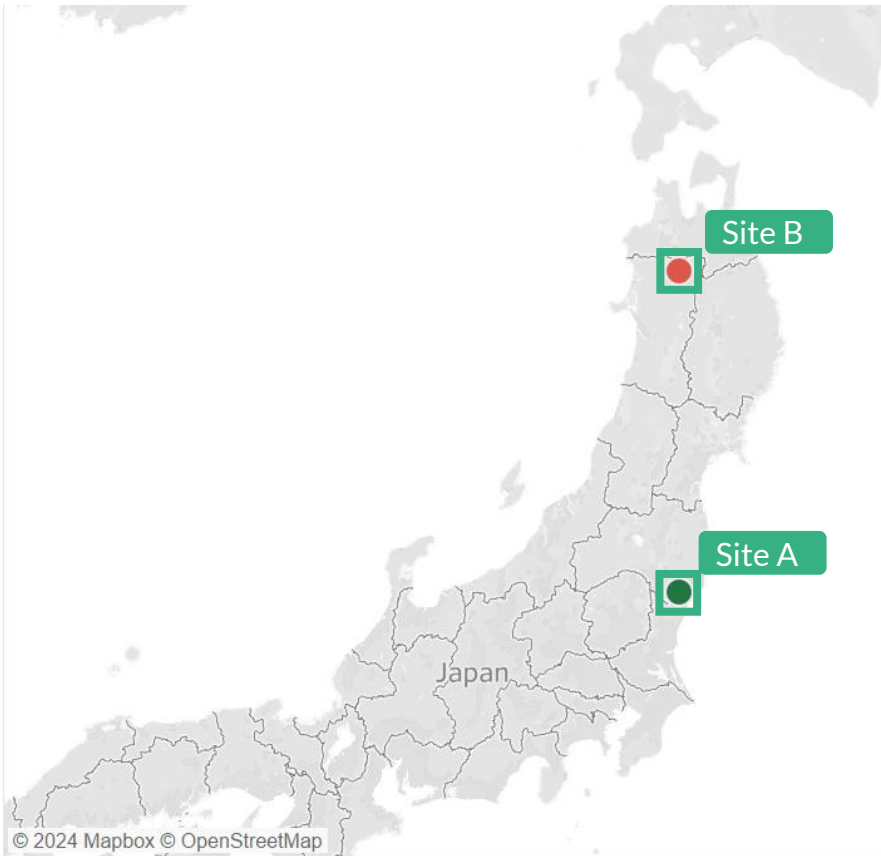


- Increasing the turbine's rotor diameter and hub height increases the load factor during hours of low wind speed
- This results in a shift of generation towards hours of higher wholesale price

Amun forecasting capabilities in Japan

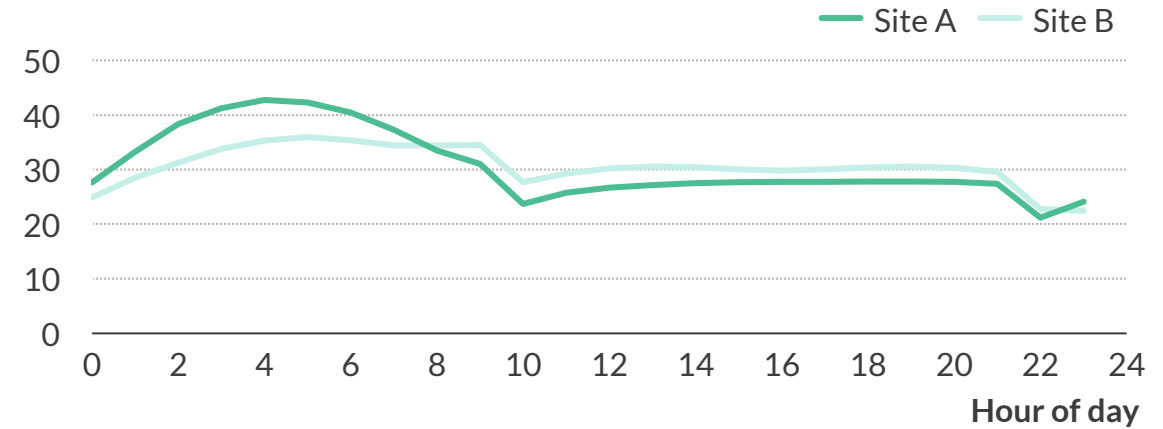
Onshore wind capture prices vary based on location and technology

Map of two onshore wind locations

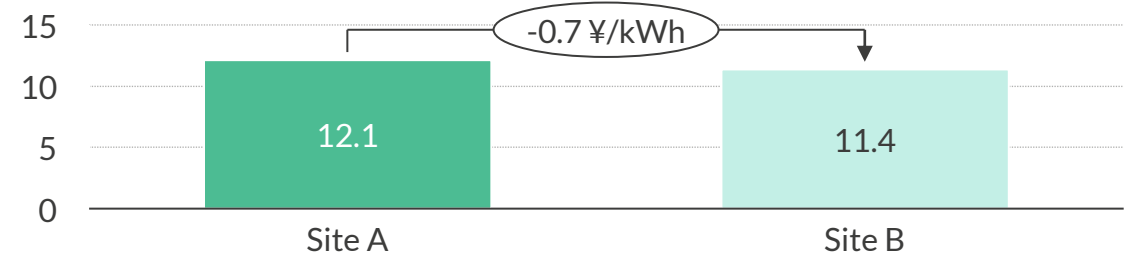


- Capture price is affected not only by price zone, but also by correlation of generation with other wind farms including onshore (cannibalization)

Load factor of two sites in Tohoku price zone, %



Average capture price (2030–2060),
¥/kWh (real 2022)



- According to **Amun**'s built-in wind speeds, Site A has the same load factor as site B. However, it's average intraday generation profile is different
- Site B generation profile has a high correlation with the onshore fleet leading to higher price cannibalisation and therefore lower capture prices

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Amun Customer Success: Getting started, made easy!

Comprehensive support from our dedicated team of energy modelling experts

Implementation

Amun is designed to be user-friendly, and user-centric, requiring minimal training

- Integrate Amun into internal tooling with API
- Use out-of-the-box, simulation-ready dispatch
- Benefit from guided valuation creation workshops

Training

Tailored training ensures proficiency after your Amun service activation

- Create and maintain your entire portfolio or assets
- Attend sessions tailored for you
- Delve into thematic deep dives and new feature training

Ongoing Support

Our global network of Amun experts are on-hand to help you unlock business value

- Regular guidance & support
- Have your valuations checked by our Amun experts
- Use checked Amun valuations in transactions, financing and strategy

Community Events

Participate in regular sessions where we learn from you, and you learn from each other

- Network with local, regional and global peers
- Attend online and offline events
- Contribute to our Amun development roadmap

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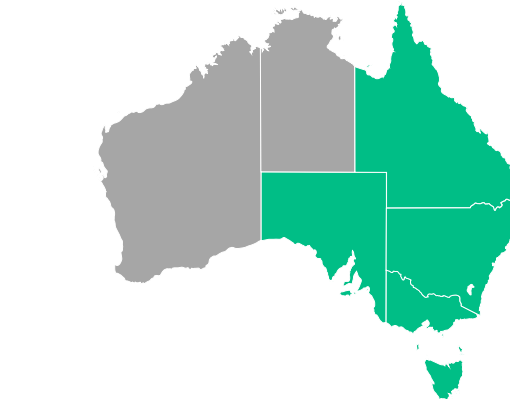
Where can you find Amun...

The image displays three maps illustrating the availability of Amun across different regions. A legend at the bottom left defines the color coding: dark green for 'CURRENTLY AVAILABLE' and light green for 'COMING SOON...'.
1. **Europe Map**: Shows Amun is currently available in most European countries, with some Eastern European countries marked as 'coming soon'.
2. **Asia Map**: Shows Amun is currently available in India, Japan, and parts of Southeast Asia. China and other major Asian countries are marked as 'coming soon'.
3. **Americas Map**: Shows Amun is currently available in the United States and Canada. Mexico and South America are marked as 'coming soon'.



**CURRENTLY
AVAILABLE**

COMING SOON...



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Any questions?

LEARN MORE



OR REACH OUT FOR YOUR FREE TRIAL:

Akane Iwado, Commercial Associate

✉ akane.iwado@auroraer.com