

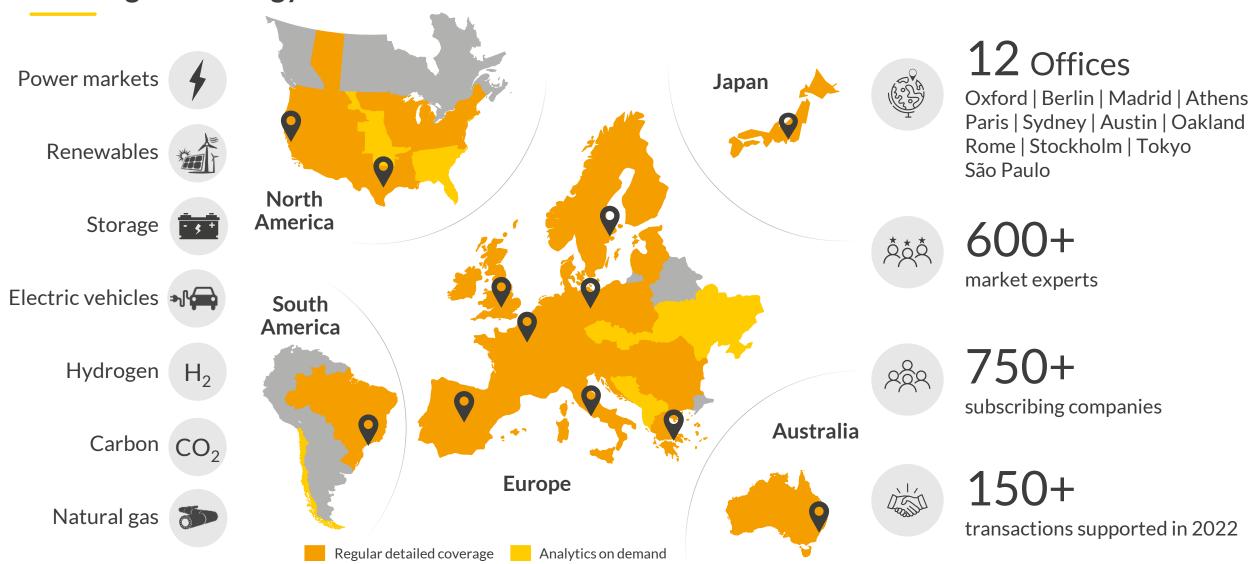
Renewable Investment Opportunities in the Balearic and Canary Islands

Public Report



Aurora provides market leading forecasts & data-driven intelligence for the global energy transition





Introducing the Aurora team



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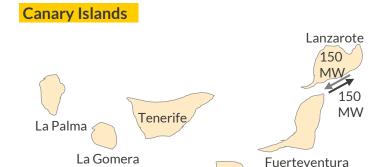


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- 1. Introduction to the regulatory framework
- 2. Historical market overview
- 3. Decarbonisation targets
- II. Model inputs
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The Balearic Islands are interconnected with the rest of Spain and Europe; the Canary Islands remain isolated from the Spanish peninsula





 The Canary Islands' electrical systems are completely isolated from the Spanish peninsula.

Gran

Canaria

 As of now, there are six isolated electric systems; Lanzarote-Fuerteventura¹, and the remaining five islands.

El Hierro

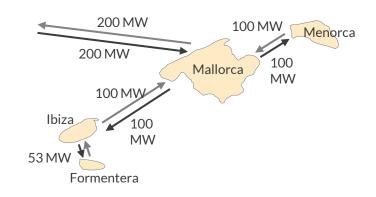
- A new interconnection between Tenerife y La Gomera (40 MW) is planned for 2025.
- Other interconnections (Fuerteventura Gran Canaria and Fuerteventura – Morocco) have been proposed but there is no targeted installation date.



Concept: Non-Peninsular Territory (NPT)

Defined as a Spanish territory that it is not located in the Iberian Peninsula. The four NPTs are: the Balearic Islands, the Canary Islands, Ceuta, and Melilla.

Balearic Islands



- The Balearics was interconnected with the Peninsula in early 2012. The Balearics are also interconnected to each other, forming a unique electric system.
- The electrical interconnection of the Balearic Islands provides a more secure supply and reduces the risk of power outages.
- A second interconnection with the Peninsula (400 MW) is planned for 2026.

¹⁾ Lanzarote and Fuerteventura were interconnected in 1977 (15 MW). In 2005, the existing cable was replaced by a new one (50 MW); in 2022, a new interconnection between Lanzarote and Fuerteventura was installed (100 MW).

The cost of producing electricity is much higher than in the Peninsula, whereas the price paid by consumers remains similar



In Spain, all consumers must pay the same power price, independent of their location. However, in the NPTs, the generation prices might be higher.

■ The generation price is defined as the division between the sum of generation costs, and the total energy produced:

Generation price =
$$\frac{Generation \ cost}{Energy \ generation}$$

• Generation costs are defined as the sum of the following components:



Wholesale Market Price in the applicable system¹, i.e. the generation costs from plants that aren't eligible to receive any additional retribution



Focus of our forecast



Generation costs from the Additional Retributive Regimen, payable to Type A technologies



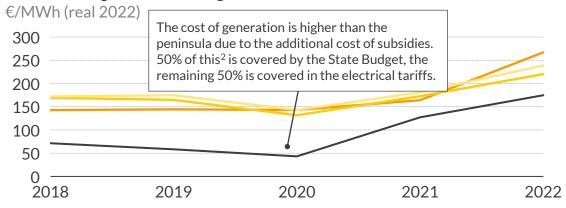
Generation costs from installations that receive the Specific Retribution Regime (RECORE plants¹)



Ancillary Services costs

Price has increased in line with the peninsula's price. The cost of generation is on average 80% higher than the price paid by demand

Annual average of the cost of generation



Annual average price paid by demand

Tenerife

€/MWh (real 2022)

300 250 200 150 100 50 0 2018 2019 2020 2021 2022

Lanzarote-Fuerteventura — Peninsula³

Sources: Aurora Energy Research, REE, MITECO

¹⁾ This is not the same price as the peninsula, more detail on slide 7. 2) This difference between the demand and generation prices is denominated "excess NPT costs". 3) Peninsula final price which includes the costs of grid constraints, capacity payments and intraday market.

The regulated formulas aim to adjust the peninsula price to hourly demand to incentivise generation during those hours





Power price formula in Non-Peninsular Territories

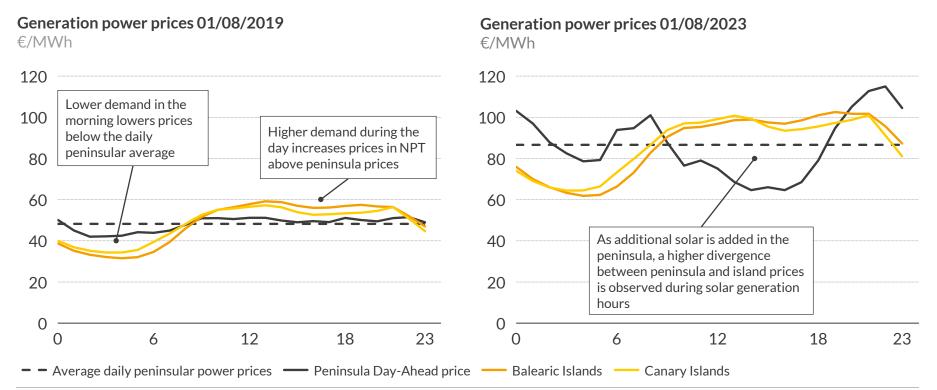
A(h) coefficient

NPT **generation** hourly power price = Weighted average daily peninsula price¹ *

Hourly demand in the NPT Average daily demand in the NPT

NPT **demand** hourly power price = Average daily peninsula consumer price² *

Hourly demand in the NPT Average daily demand in the NPT



¹⁾ Regulation does not specify by what this average is weighted with. Aurora has assumed generation for the calculation. 2) Minus regulated costs such as imbalance costs and capacity mechanisms. 3) Data until 16 November 2023.

- The pricing is linked to the mainland market price by a formula that adjusts the peninsula Day-Ahead price to hourly insular system demand.
- Due to their isolation, NPTs must ensure price signals that reduce peak demand.
- This formula has historically led to higher prices around noon, compared to the peninsula.
- When demand is higher, energy is sold at a higher price, however the price the demand pays is lower than the cost of generation, therefore demand reduction is not fully incentivised.
- Between 2019 and 2023³, the average demand coefficient inflated the peninsula wholesale price by an average of 13% between 10:00-14:00 hrs. and 20% between 19:00-22:00 hrs.



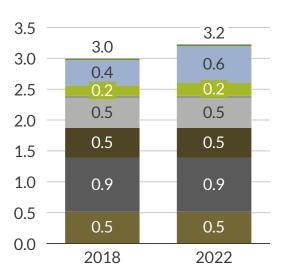
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Despite recent growth in installed renewable capacity, the generation mix remains dominated by fossil fuels in the Balearic and Canary islands

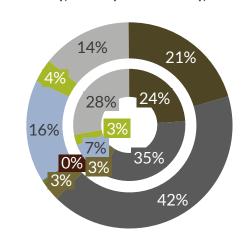


Canary Islands

Installed capacity, GW



Generation mix¹, 2018 (inner circle), 2022 (outer circle), %

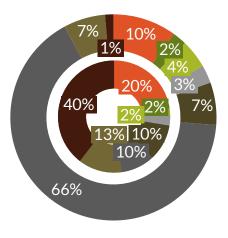


Balearic Islands

Installed capacity, GW



Generation mix¹, 2018 (inner circle), 2022 (outer circle), %



- The deployment of RES² capacity increased by 8.5% on average in 2018-2022, and RES generation nearly doubled in that period (11% in 2018, 20% in 2022).
- There have been no retirements of thermal capacity in the Canary Islands between 2018 and 2022.
- Steam turbine generation halved between 2018 and 2022. This generation is primarily compensated by increased wind and CCGT generation.
- The generation mix varies within the six electric systems.

- Solar PV capacity nearly tripled from 2018 to 2022, although renewables only accounted for 7.4% generation in 2022.
- In 2020, the Balearic system retired more than 200 MW of coal capacity, leading to an increase in CCGT generation in the following years.
- Increased interconnection with the Peninsula would increase the security of supply and further reduce the utilisation of the existing oil and gas generators.





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Specific Energy and Climate plans target full decarbonisation for 2040 and 2050 for the Canary and Balearic islands respectively

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Both sets of islands have decarbonisation plans that build on national targets; final plans are pending to be approved at both peninsula and national level

Integrated National Energy and Climate Plan (PNIEC)

National climate plan that includes specific measures for island systems



Canary Islands

Law 6/2022

Regulates measures to mitigate the effects of climate change and defines the strategies to be elaborated.

Two strategies define the climate action planning in the Canary Islands:

- Climate Action Strategy¹
- Just Transition and Climate Justice Strategy²

Balearic Islands

Law 10/2019

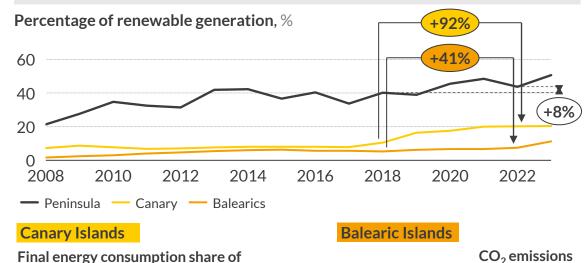
Outlines specific targets for renewable energy in the generation mix and final consumption, and greenhouse gas emissions reduction³.

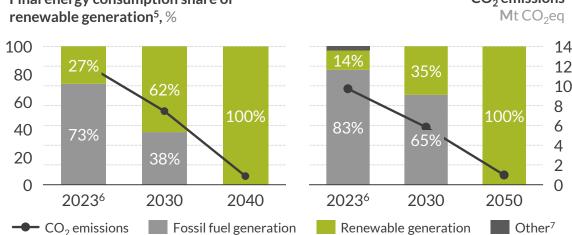
Investment Plan for the Balearic Islands Energy Transition

Within the PRTR⁴ funds available, various programmes are outlined, aiming to accelerate the energy transition.

To support these decarbonisation plans, PERTE schemes managed by IDAE allocate 499mn € to finance sustainable energy strategies for the islands

Targets for the Canary islands are more ambitious than the Balearic Islands, targeting full decarbonisation of final energy consumption by 2040







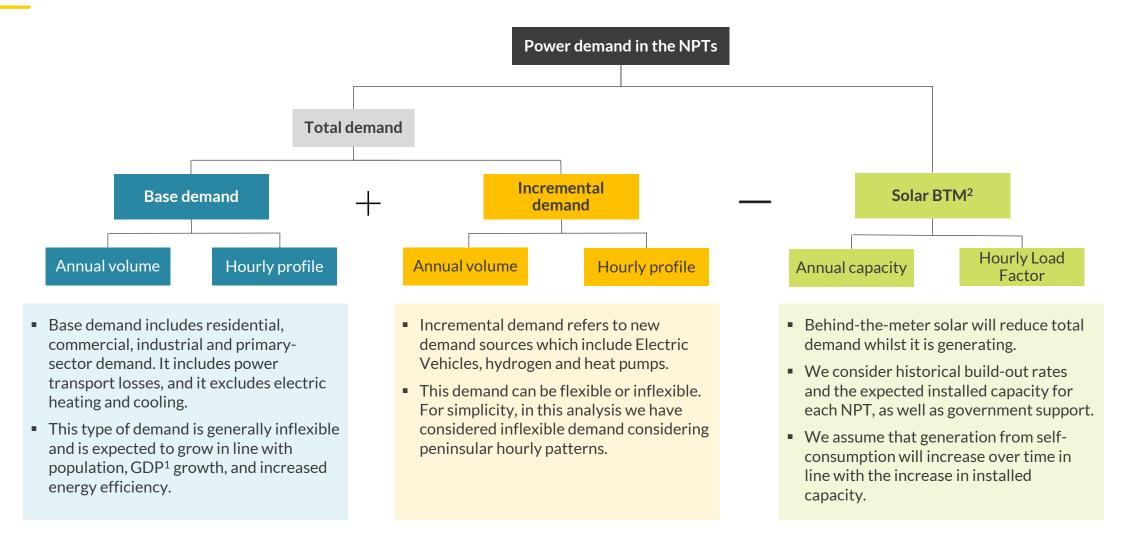
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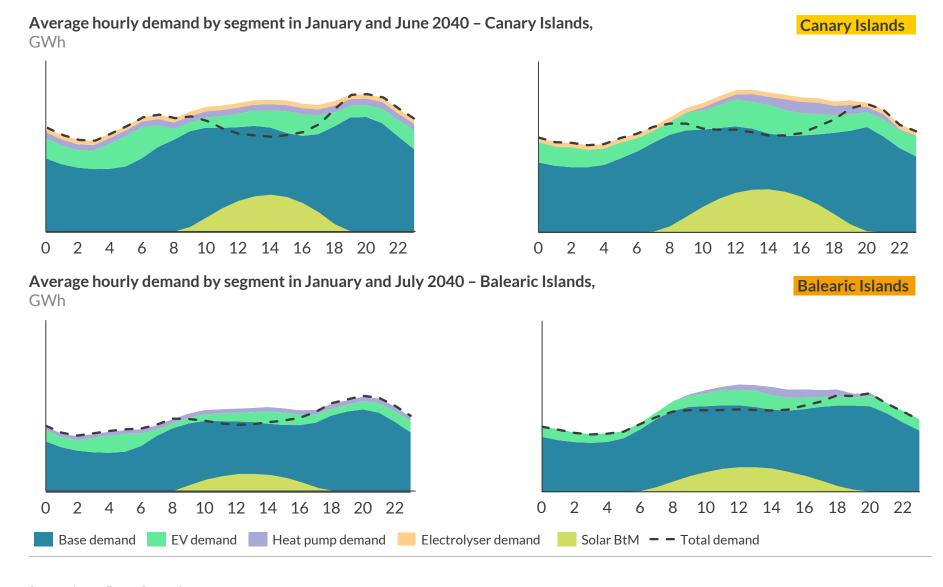
Aurora's forecast for long-term demand in the insular systems considers the expected increase in demand and distributed solar capacity





¹⁾ Gross domestic product. 2) Behind-the-meter solar PV.

Increased demand during the day, mainly due to an increase in EV demand is counteracted by increased solar BTM generation



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- Base demand and power demand from electric vehicles have similar shapes driven by morning and evening peaks.
- Power demand from heat pumps peaks during summer afternoons and winter, driven by increased cooling and heating demand during those times.
- As the prices in NPTs are directly linked to demand rather than power generation costs, the hourly profile results in considerably lower prices during nighttime due to minimal industrial activity.
- With the increase of solar BTM generation, peak demand is shifted from the middle of the day to evening periods, leading to lower prices during solar energy production hours.



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CAPEX and OPEX values are expected to be higher than the Peninsula values, however several factors should be considered



1

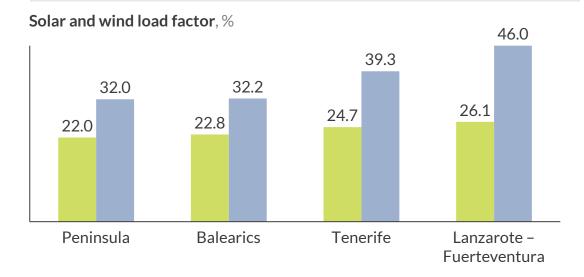
For estimating the Capex and Opex in the NPTs, we assume values that are a 15% higher than in the Peninsula for all the components¹

	CAPEX ₂₀₂₅ , €/kW (EUR 2022)	OPEX ₂₀₂₅ , €/kW (EUR 2022)
Solar asset	750 - 800	20 - 25
Wind asset	1,400 - 1,500	35 - 45

Material costs are dependent on various factors:

- Project size, as larger projects are able to take advantage of economies of scale.
- Type and size of developer, as larger developers can buy components in bulk for different projects, obtaining overall lower prices for the components.
- Technology and project specifics (e.g. if the terrain is complex, or if the project uses trackers or not, etc.).
- Contracting type. The developer:
 - May have supply agreement in place for many projects, or a fully wrapped EPC contract for the specific project.
 - May have a full scope O&M contract or carry out preventive maintenance and have a maintenance reserve account for unexpected issues arising, given some of the specifics of the island terrain and resource.

Renewable resources are higher in the Canaries than in the Peninsula, the Balearics have similar levels as in the Peninsula



- Less volatility can be observed for solar resource compared to wind resource.
- The Balearic wind and solar load factors are very similar to the Peninsula average load factors.
- The Canaries, and especially Lanzarote-Fuerteventura, have much higher load factors than the Peninsula average, especially for wind.

Utility-scale PV Onshore wind

Sources: Aurora Energy Research, Everoze

¹⁾ Except for the grid connection CAPEX and social bonus (OPEX), which assumed at the same levels as in the Peninsula. 2) Lanzarote-Fuerteventura.

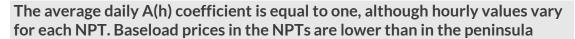


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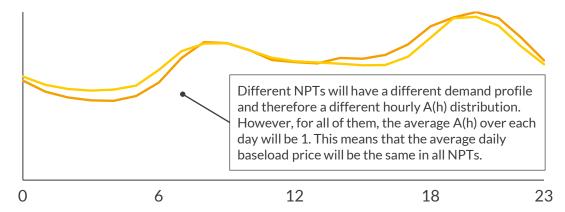
Although the demand coefficient varies on an hourly basis, yearly values average one, leading to the same annual baseload price for all NPTs



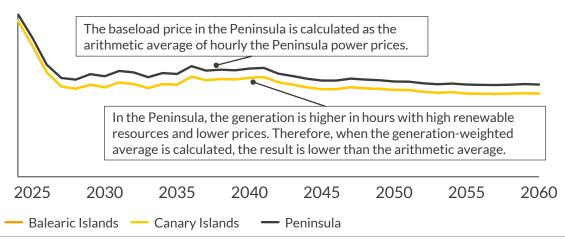
Average demand covered by solar BTM, %



A(h) coefficient for an example day (15 January 2027)

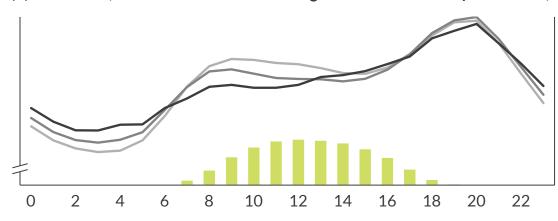


Aurora Central and NPTs baseload prices¹, €/MWh (real 2022)

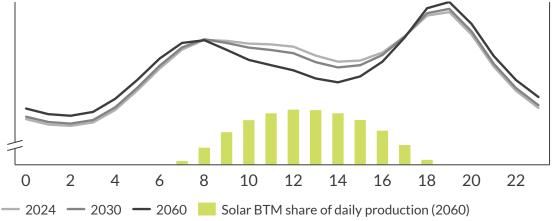


Increasing Solar BTM² generation causes the A(h) coefficient to decrease over time during solar hours; demand increases during morning hours

A(h) coefficient, Balearics⁴







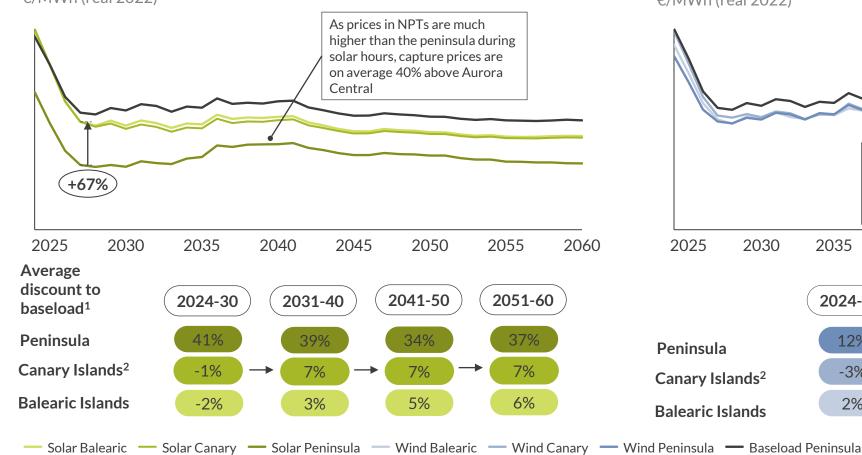
¹⁾ Because of how it is calculated, the baseload price is the same in all the NPTs. 2) Behind-the-Meter Solar PV. 3) Capture prices. 4) The hours on the chart refer to local time zone (UTC in the Canary, UTC+1 in the Balearics) for the whole year.

Although NPT baseload prices are lower than the peninsula, capture prices are significantly higher, resulting in a lower discount to baseload



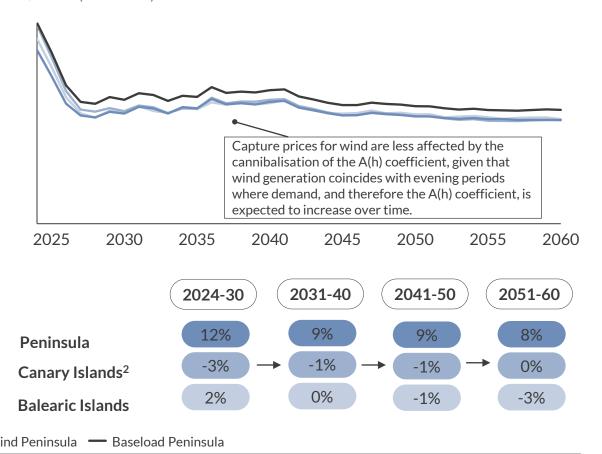
Rapid solar buildout between 2024 and 2030 leads to low capture prices in the peninsula; whilst NPT capture prices remain high

Aurora Central peninsular and NPTs solar capture prices €/MWh (real 2022)



Low wind cannibalisation, and a lower impact of decreasing A(h) coefficient during central hours, causes NPT capture prices to be similar to the peninsula

Aurora Central Peninsula and NPTs wind capture prices €/MWh (real 2022)



¹⁾ Discounts to peninsula and NPTs baseloads are calculated based on corresponding capture prices: NPT discounts consider NPT capture prices and baseload, while Peninsula discounts involve Peninsula capture prices and Peninsular baseload. 2) Average of Tenerife and Fuerteventura-Lanzarote subsystems.



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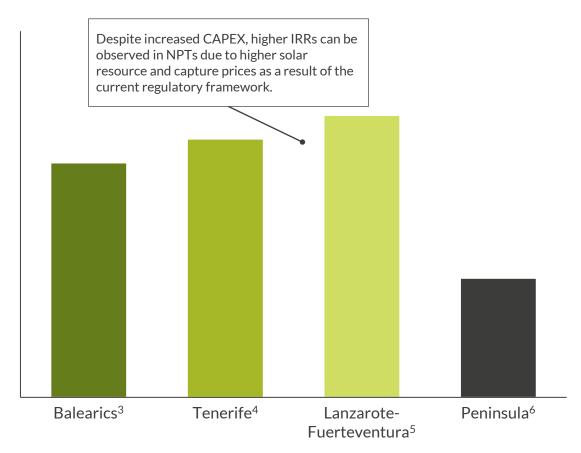
Under the current regulatory framework, solar PV projects in the islands have solid Internal Rate of Return (IRRs) ranging between 12 and 15%

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With an average 38% discount to baseload throughout its entire lifespan, solar projects in the peninsula fall behind their counterparts in NPTs

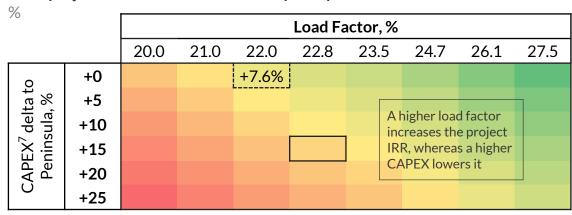
Solar PV project (COD¹ 2025) IRRs by location²

%

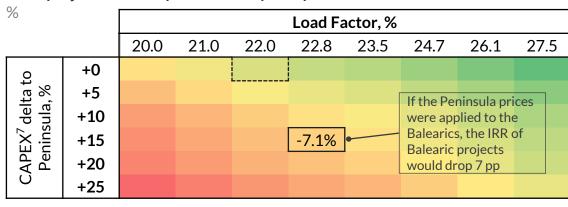


Considering peninsular solar capture prices, NPT revenues decrease significantly, reducing IRRs by 54% on average.

Solar project IRR with Balearic solar capture prices



Solar project IRR with peninsular capture prices



⁻⁻⁻ Peninsular IRR — Balearic IRR

¹⁾ Commercial Operations Date. 2) Given the variation in resource across islands, IRRs may vary significantly in different locations within the same island. 3) Balearics load factor: 24.7%. 5) Lanzarote-Fuerteventura load factor: 26.1%. 6) Representative IRR based on the average Aurora's solar load factor for the Peninsula: 22.0%. 7) Projections do not consider inflation. 15% increase is not applied to grid connection costs.

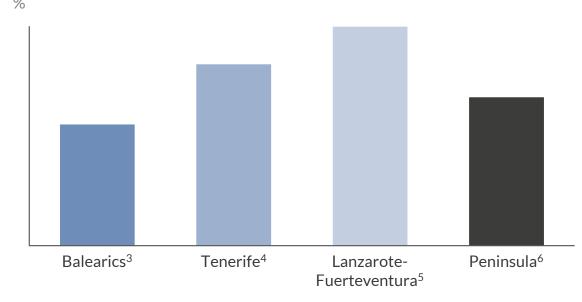
In contrast to solar projects, onshore wind is less affected by CPs and more reactive to resource availability and location

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For projects with operations commencing in 2025, highest returns come from Canary islands where load factors reach up to 46%

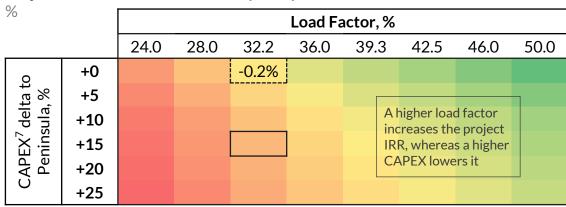
Wind project (COD¹ 2025) IRR by location²



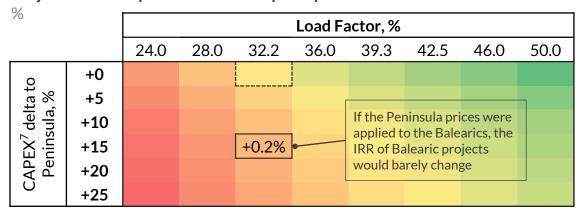
- Projects located in Lanzarote-Fuerteventura and Tenerife are more profitable than in the peninsula and the Balearics due to the higher wind resource (46.0%, 39.3%, and 32.2% LF respectively).
- Increased Capex and a load factor similar to the peninsular average causes the IRR for the Balearics to be the lowest of the four regions.

Similar capture prices in the NPTs with the peninsula result in higher CAPEX and load factor sensitivity in IRR calculation

Project IRRs with Balearic wind capture prices



Project IRRs with peninsular wind capture prices



--- Peninsular IRR — Balearic IRR

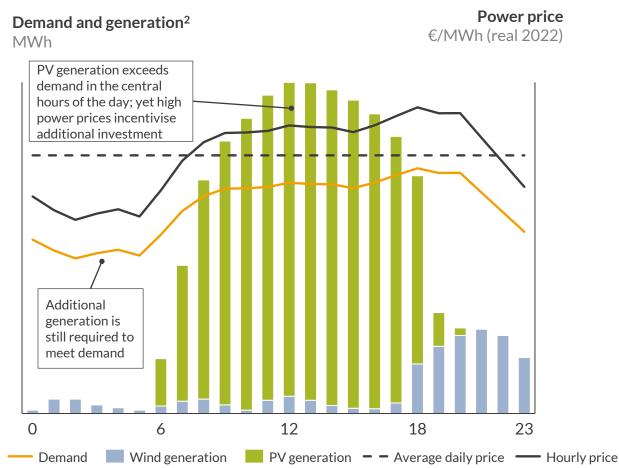
¹⁾ Commercial Operations Date. 2) Given the resource variation across islands, IRRs may vary significantly in different locations within the same island. 3) Balearics load factor: 32.2%. 4) Tenerife load factor: 39.3%. 5) Lanzarote-Fuerteventura load factor: 46.0%. 6) Representative IRR based on the average load factor of wind zones modeled by Aurora: 32.0%. 7) Projections do not consider inflation. 15% increase is not applied to grid connection costs..

The current regulation incentivises investment in Solar PV, however, it does not address certain aspects that are also key to decarbonisation



Price signals are adequate to attract RES¹ investment, however, they do not properly capture the system needs

Example day in the Balearic Islands, July 2030.



The current regulation has additional limitations relating to ensuring security of supply and investment in flexible technologies

Ancillary services

- Due to their lack of interconnections and the fragility of their electricity network, ancillary services are critical to ensure reliability of supply.
- However, as of now, there is a lack of clarity on how these services will evolve in the future, especially when considering storage participation.

Local considerations

- Islands that are not interconnected have the same price as they are calculated on a territory level (i.e Balearic and Canary Islands).
- This is especially relevant for the small islands that are not interconnected, as a large change in the demand pattern of a small island will not have an impact in the aggregated demand and therefore, in the overall price paid by all systems.
- Island specific security of supply requirements must be considered as price signals to consumers to reduce demand are more important in tighter systems.

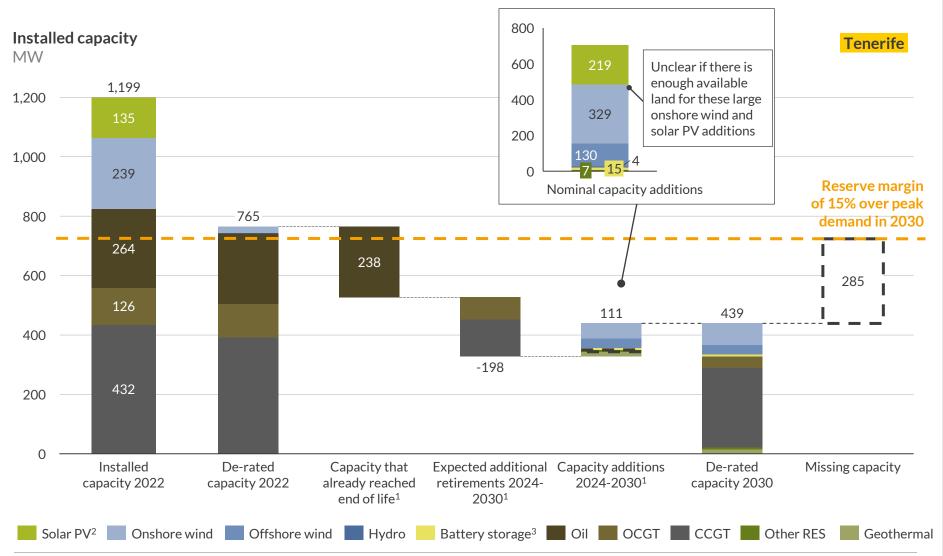
 Deep dive in following slide

Regulatory uncertainty

- It is difficult to create long-term forecasts as the regulation could be modified in the future.
- Despite the higher profitability, uncertainty around the future evolution of the regulation could hinder investment in the islands.

¹⁾ Renewable Energy Sources. 2) Assumptions on RES capacity installed: The solar PV capacity must be able to cover 70% of the total yearly power demand. The solar PV/wind capacity ratio is equal to 4.8

Considering a 15% reserve margin, the current decarbonisation plan for Tenerife would lead to a missing capacity of almost 300 MW



- We assume the Alternative 2 values⁴ of the government plan (PTECan).
- In 2030, 61% of the demand is expected to be covered with RES⁵.
- In terms of capacity, an additional 285 MW (de-rated capacity) are required by 2030. This would be equivalent to the addition of 746 MW of 2h batteries.
- This represents an additional investment of 459mn €⁶ and would represent an additional 21% of investment with respect to the values displayed in the PTECan.
- A more optimal capacity mix would be needed. This could include flexible technologies (demand side response and offshore wind for example).

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Alternatives to the current regulation that ensure security of supply, as well as preserving price and investment signals exist





Power prices

- To give adequate signals for investors, the price generators receive should reflect the impact of cheaper renewable generation, and not only the demand levels.
 Alternatives to the current formula could include:
 - 1. A marginal, merit-order based market with the same clearing price for generation and demand, as in the Peninsula.
 - 2. A formula¹ that aims to increase prices proportionally to demand not covered by renewables:

 $Hourly \ NPT \ price = Weighted \ average \ daily \ peninsula \ price * \frac{(Hourly \ demand - Hourly \ renewable \ generation * k^1) \ in \ the \ NPT}{(Average \ daily \ demand - Average \ renewable \ generation * k^1) \ in \ the \ NPT}$

3. As proposals 1 and 2 lead to price cannibalisation with increasing renewables, another alternative to provide more certainty to developers is to promote competitive renewable PPA auctions specifically for the islands.



Security of supply

- Incentivise investment in storage and flexibility by enabling additional revenue streams for these technologies. Examples of such streams would be capacity markets and other ancillary services.
- Build additional interconnections between electric systems.
- Ensure that price signals given are coherent with the supply requirements of that isolated system.
- Support strategies to lower the demand, especially during peak hours, such as the implementation of DSR².



Regulatory framework

- Any measures that are implemented should be closely monitored to ensure the right market signals are provided:
 - Incentivise demand reduction during peak hours
 - Incentivise investment in technologies required for decarbonisation
- Identify technologies (such as storage and DSR²) that are key to decarbonisation and providing security of supply, and ensure a clear, transparent regulation to evaluate the business case.
- Finally, regulatory certainty should be given to investors (what changes are expected to be implemented, when, and if they will be retroactive).

¹⁾ K is a parameter between 0 and 1 that would be used to modulate the effect of renewable generation in the price. The lower the value, the closer the prices would be to the current formula and the lower the cannibalisation effects would be. 2) Demand Side Response.



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Key takeaways



- In contrast to the peninsula, the island systems are heavily dependent on thermal generation. This leads to the cost of generating electricity being higher than in the peninsula. However, by law, consumers in different regions must pay the same price for electricity, creating additional costs that are funded via the State Budget (50%) and the electricity system (50%).
- A specific regulatory framework is applicable to the Balearic and Canary Islands; generators receive compensation based on the average peninsula wholesale market price, adjusted by demand on an hourly basis. This adjustment factor is cannibalised over time as demand decreases in line with the increase in Solar BTM generation. However, the cannibalisation effect is less aggressive than that observed in the peninsula.
- Material costs can be higher for projects located in the islands, however, several factors must be considered, such as the project size, the type of developer, technology and contract structure. Resource in the Canary Islands is much higher for both wind and solar PV technologies, whilst in the Balearics, the solar resource is higher than the peninsula.
- Despite additional material costs, higher resources and prices lead to higher IRRs for projects located in the islands compared to the peninsula, with the exception of wind projects located in the Balearic Islands. This difference is higher for solar projects, as cannibalisation in the peninsula is expected to be higher for this technology compared to wind.
- The current regulation has several limitations including a lack of relevant price signals and incentives for installing flexible technologies and reducing demand during peak hours. This could lead to regulatory uncertainty as the incentives for further investment in renewables becomes unsustainable without the current price formation formula. Any measures implemented will need to consider security of supply and decarbonisation targets, whilst minimising the cost to the consumer and taxpayer.

Understand the risks and stay ahead of the impact of grid curtailment with the Spanish Grid Curtailment Add-On



Spanish Grid Curtailment Add-On

Report



Biannual Reports

- Overview of the market framework for Technical Restrictions and policy developments
- Historical assessment of grid curtailment in Spain, focused on renewable assets

Historical Data



Historical data dashboard

 All historical curtailment data in Spain, per province and per programming units available as dashboards on our EOS platform. Updated daily.

Data



Biannual Data Reports

- Central scenario forecast, until 2030, including:
 - Demand per province
 - Capacity stack per province
- For the 9 most impacted provinces, data on:
 - Grid curtailment [%] per province
 - Grid curtailment [GWh] per province
 - Weighted average price of curtailment [€/MWh]
- Sensitivities
 - Based on the biggest risks in the market, some sensitivities are developed (No nuclear phase-out, Low Hydrogen, Battery impact)

Upcoming Grid Modelling



Grid Modelling integration

- Developing a Spanish grid model to forecast upcoming grid congestions in the system to 2030
- Integrating the upcoming network evolution from the latest National Network Development plan

Discuss how our product can help your business with Enilio Alvarez.

Senior Commercial Associate:

enilio.alvarez@auroraer.com



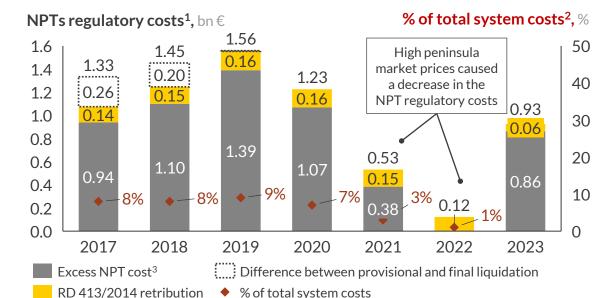
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The System Operator is responsible for deciding the energy dispatch on a cost reduction basis



A specific regulatory framework in the island systems is required due to the additional cost of producing electricity compared to the Spanish mainland

- In Spain, all consumers must pay the same price, independent of location.
- However, the cost of generating electricity in NPTs is higher than the peninsula, due to their dependence on thermal generation.
- Therefore, the price that the demand pays when buying electricity in the Wholesale Market, is calculated such that it is not more expensive than buying electricity in the peninsula.
- The difference between the price that generators receive, and the price that the demand pays for this energy is denominated excess NPT costs.



The System Operator decides which plants will supply the forecasted demand using an economic criteria, i.e minimising the cost for the system

Power plants located in any NPT will receive the following remuneration:

Wholesale Market Price in the applicable system⁴



Specific retribution regime dependent on the type of technology

A Category A technologies receive the additional retribution regime detailed in RD 738/2015⁵

Category A technologies include:

- Run-of-river
- Thermal generation⁶

Category B technologies can benefit from an additional subsidy according to RD 413/2014, or subsidies relating to RRE⁷ and REER⁸ auctions

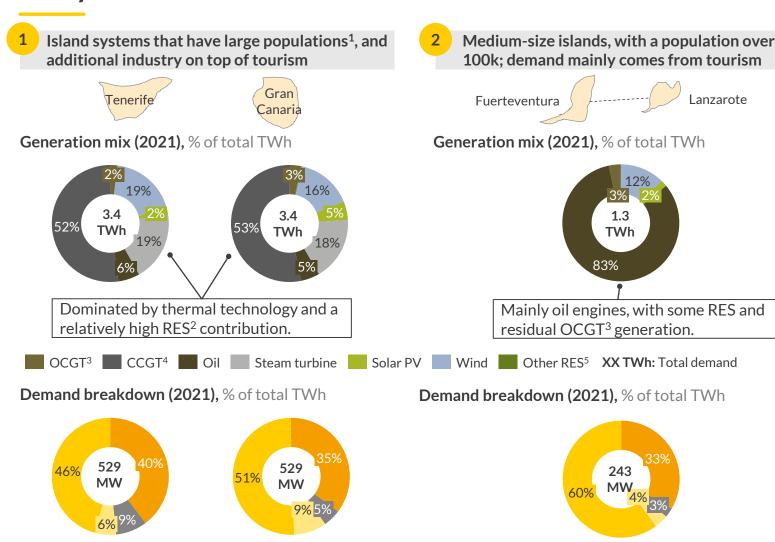
Category B technologies include:

- Renewables
- Cogeneration plants with an installed capacity < 15 MW

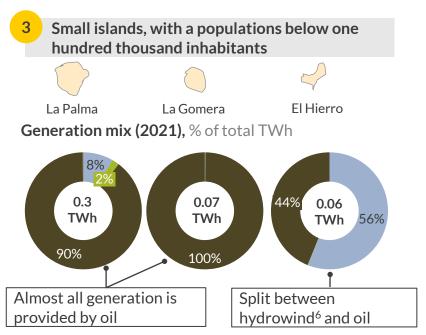
The combination of these components is the price paid to generators located in Non-Peninsular Territories.

The Canary Islands are made up of six different electric systems. Our analysis will be focused on Tenerife and Fuerteventura-Lanzarote

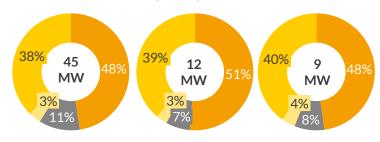
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Industrial Other YY MW: Peak demand



Demand breakdown (2021), % of total TWh



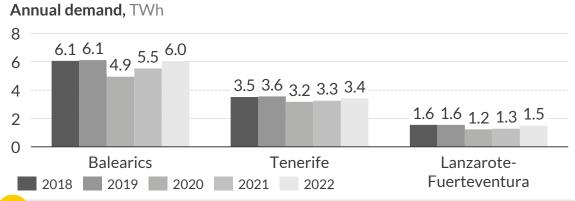
¹⁾ More than 1 million inhabitants. 2) Renewable Energy Sources. 3) Open Cycle Gas Turbine. 4) Combined Cycle Gas Turbine. 5) Includes hydro, biomass, biogas, renewable waste, geothermal, and marine energy. 6) Refers to the Gorona del Hierro plant, which combines wind and pumped storage.

Commercial

A stronger demand variation can be observed in the island systems, with the Balearics seeing the highest divergence to the peninsula

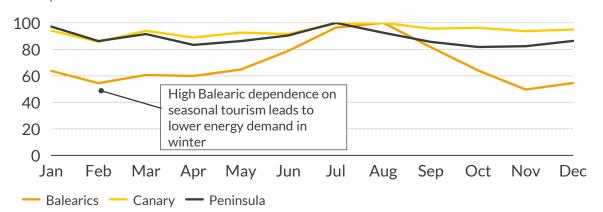
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Demand recovered in 2022 following the Covid-19 pandemic and energy crisis; the Balearics have the highest demand of the electrical systems

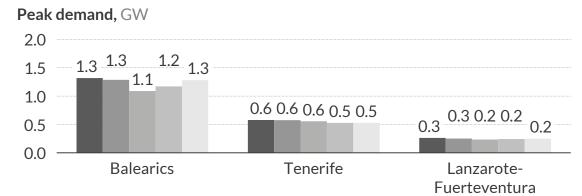


Demand in the Balearic Islands is seasonal; while the Canaries have a more constant demand profile over the year, similar to that of the peninsula

Monthly demand over maximum monthly demand in 2022 % of peak month¹

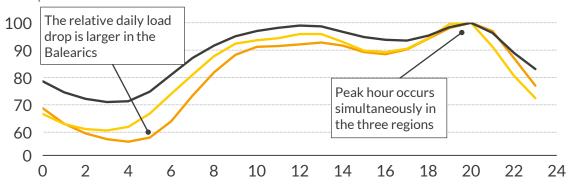


Given their isolation, island systems have a higher security of supply standard although peak demand is low overall



Lower industry in the islands, especially in the Balearics, causes a lower nighttime load with respect to the peak load

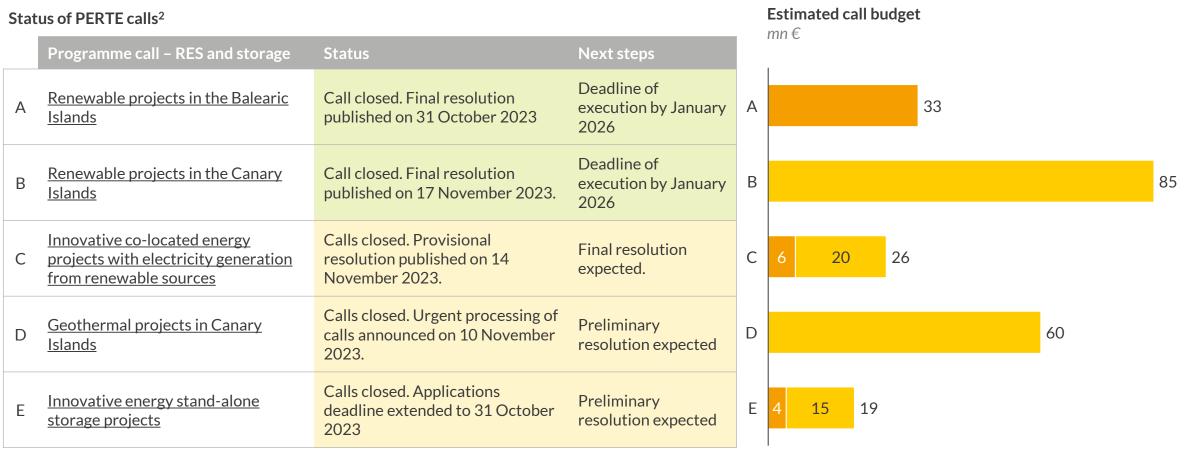
Average hourly demand over maximum average hourly demand in 2022 % of peak hour^{2,3}



¹⁾ Compares the total demand in any given month with the highest total monthly demand. 2) Compares the average hourly demand at that time with the highest average hourly demand over the year. 3) The three systems are displayed in UTC+1 time zone, regardless of location and of summer or winter time zone.

PERTE schemes managed by IDAE allocate 499mn € to finance sustainable energy strategies for the Balearic and Canary Islands¹





In addition to specific calls for the islands, additional funds have been allocated to provide additional support for RES and storage projects for Balearic and Canary islands, such as the Aid Lines for Investment in Renewable Energy co financed with FEDER³ Funds. Out of 316mn €, 212mn € were directed to the islands through EOLCAN, SOLBAL, and SOLCAN programmes⁴.

Balearic Islands Canary Islands

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