EU solar market and policy updates

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65.5 GW

4.4%

816 GW

65.5 GW installed in 2024: New market record

4.4% annual market growth: the lowest market growth since 2017 816 GW projected by 2030: still above REPowerEU's target, but a 7% decrease compared to previous outlook

2016

2017

2018

2019

2020

Newly added solar PV capacity growth has fallen dramatically, with a 92% decrease compared to previous years

EU-27 annual solar PV installed capacity 2016-2024 June 2023 - June 2024 EU electricity prices stabilise -22% non-household consumers **69 GW** -9% household consumers Average annual installations 92% decrease 2025-2030 to reach compared to REPowerEU target 70 65.5 2021-2023 62.8 growth June 2021 - May 2023 60 EU electricity prices increase +131% non-household consumers 50 +79% household consumers +53% 40 GW September 2018 +45% 30 EU ends trade barriers +41% on Chinese PV modules 20 10 0

2021

2022

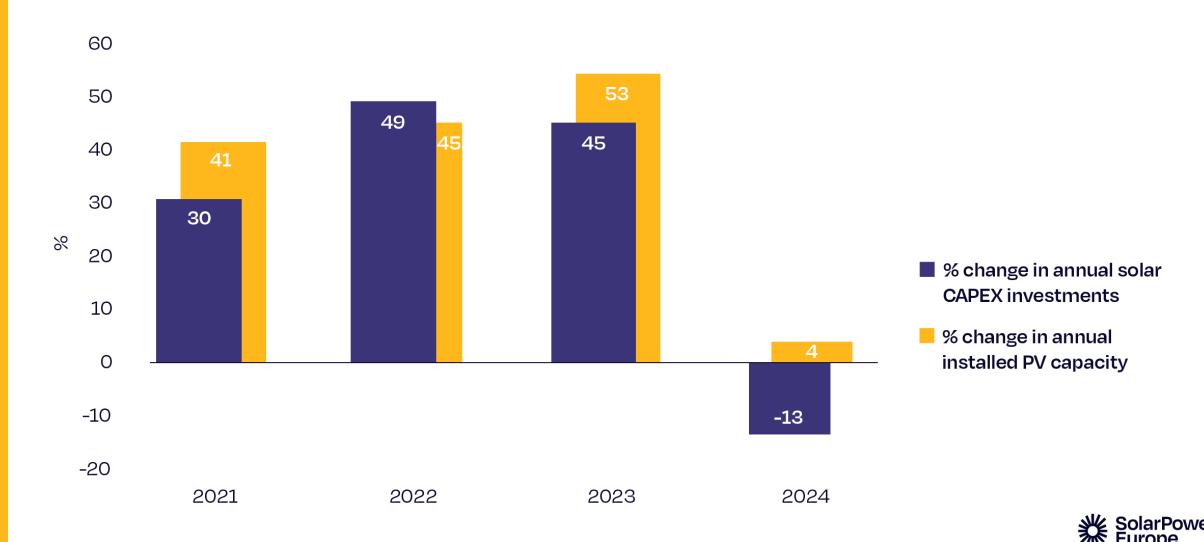
2023

2024



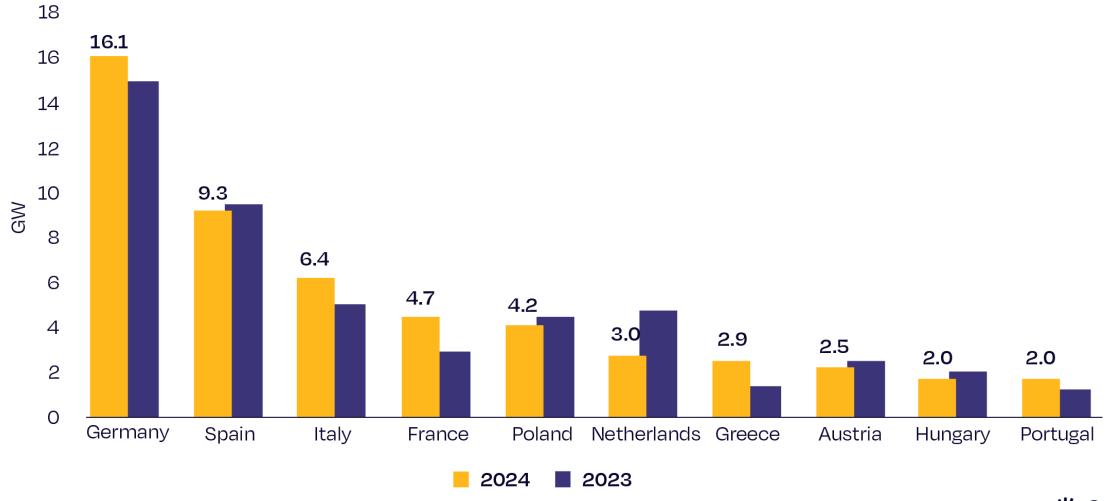
Widening gulf: Solar investment growth turns negative as installation growth falls

Relationship between % change in solar capital investments and solar PV deployment in the EU, 2021-2024



Little changes among top 10 solar markets in 2024 with 3 leaders keeping their ranks

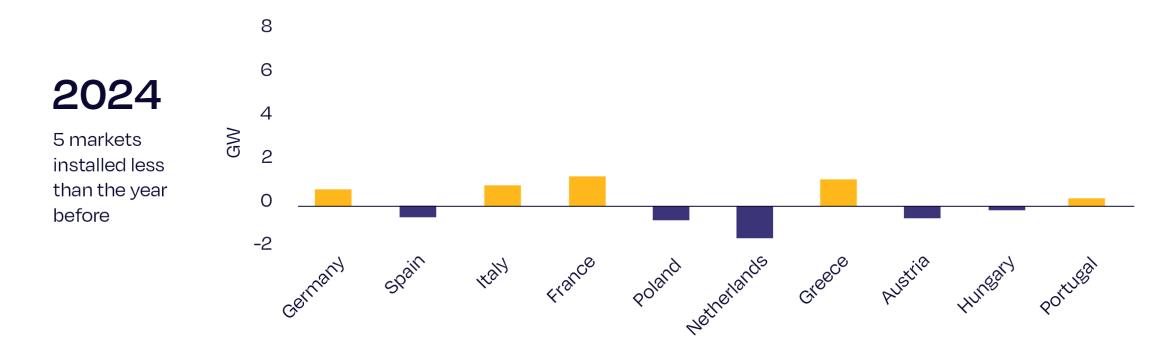
EU-27 top 10 annual solar PV additions 2023-2024





Five of the top 10 EU solar markets installed less in 2024 than 2023

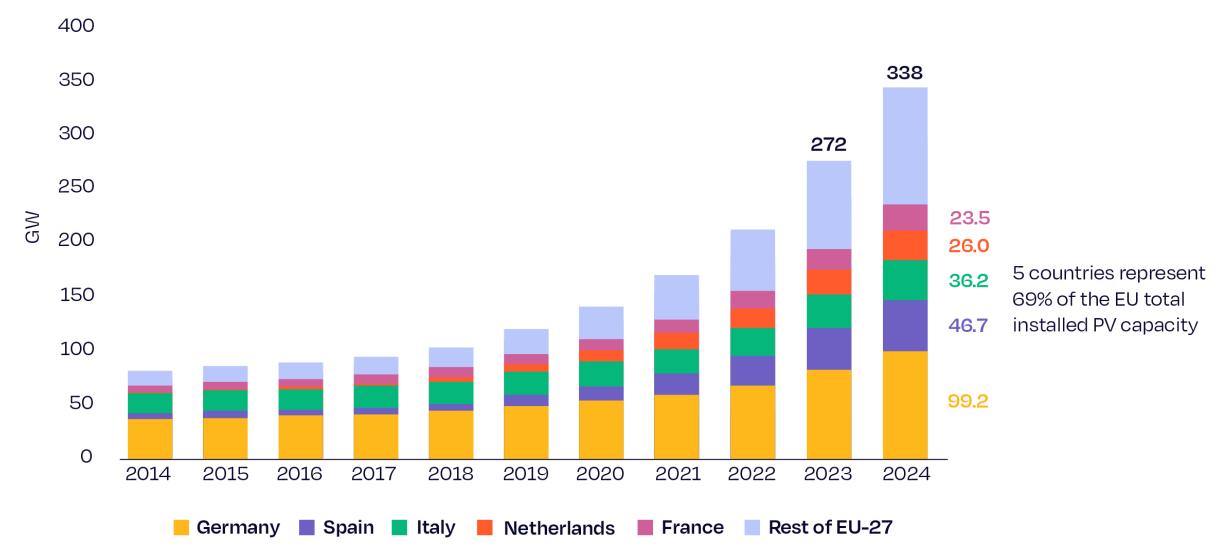
Net change in newly installed solar PV capacity, EU-27 top markets 2022-2024





The EU crosses 330 GW of solar PV installed capacity in 2024

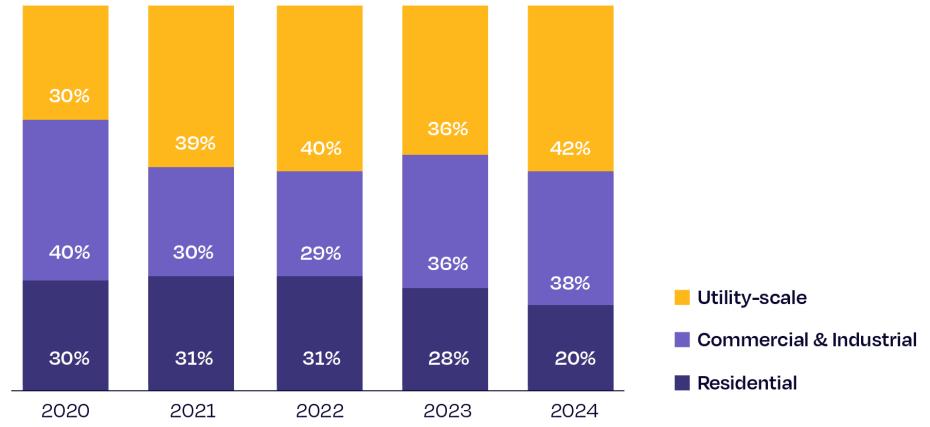
EU-27 cumulative solar PV capacity 2014-2024





Utility-scale solar drives new EU installations in 2024 as residential rooftop solar slumps

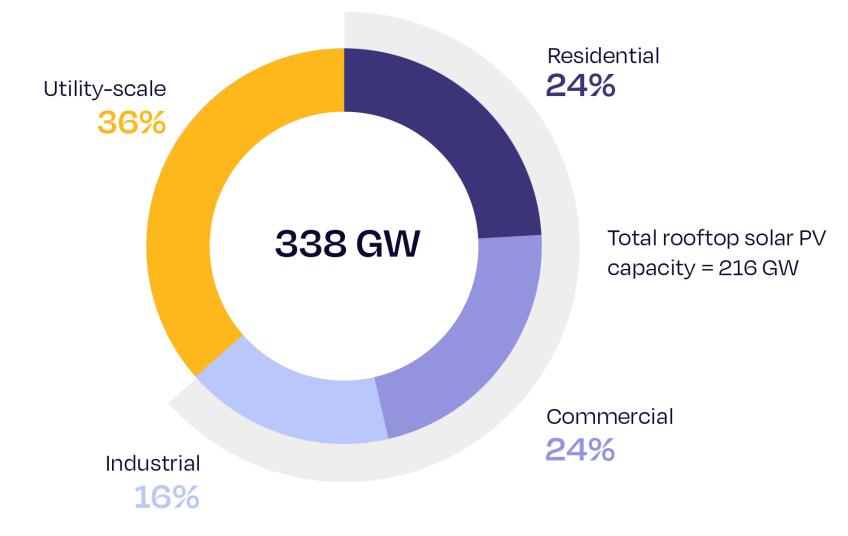
EU-27 annual solar PV segmentation 2020-2024





Two-thirds of the EU solar fleet is on rooftops

Segmentation of cumulative EU solar PV installations 2024





器 SolarPower Europe

Three EU countries now host more than 1 kW of solar per person

EU-27 top 10 countries cumulative solar PV capacity per capita 2024















Greece



Belgium



Hungary



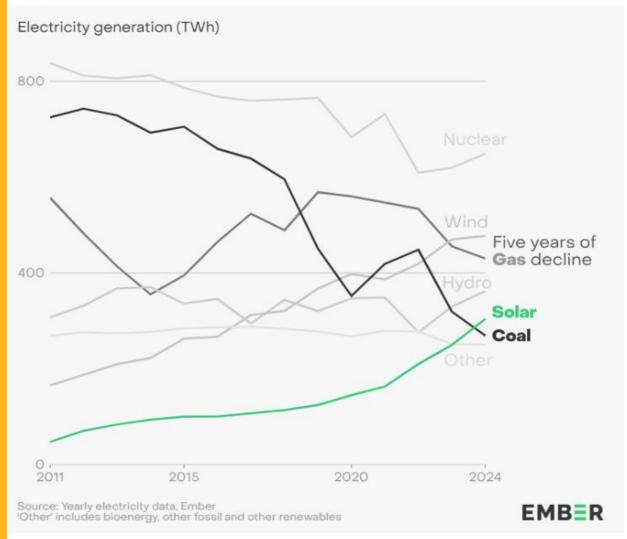
Denmark

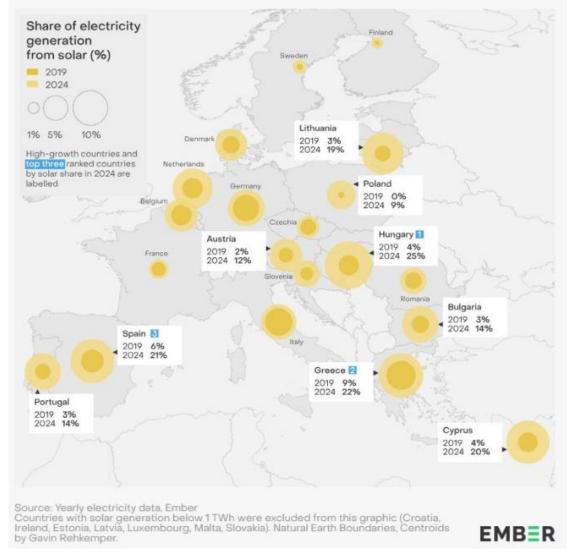


Slovenia



Solar generation keeps surging across the EU and overtook coal generation for the first time in 2024





Main trends shaping the future of the

EU solar

market



Rooftop market is slowing down. As the sense of urgency to shield against high electricity prices during the energy crisis has faded away, several incentive schemes are being phased out, leading to a significant slowdown in the residential rooftop market.



Low flexibility hinders large-scale PV. Grid congestion and lack of storage lead to a rise in negative electricity prices and higher curtailment rates, diminishing the financial appeal for solar investments.



EU electrification rate is too slow. The electrification rate in the EU is stagnating for the past five years. Heavy industry and transport need to electrify faster to allow integration of more renewable electricity.



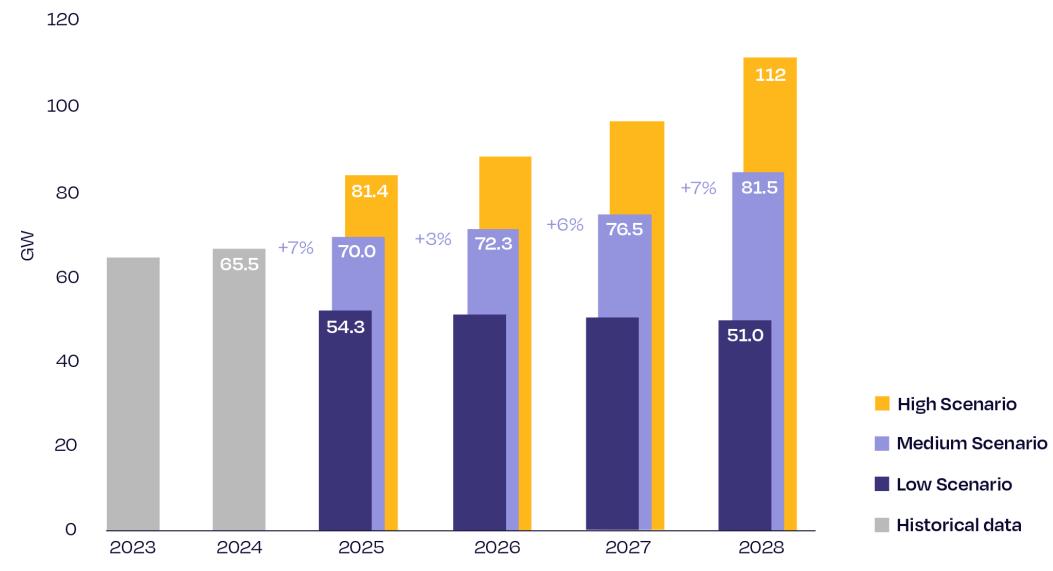
Permitting challenges continue. Permitting and land access remain cumbersome across several Member States, delaying project timelines and hindering growth.



Risk of a slower Green Deal. Several political parties, that are traditionally less supportive for renewables, have come to power in various European countries, potentially slowing down the implementation of the Green Deal.

EU solar market expected to continue to grow but at a slower pace

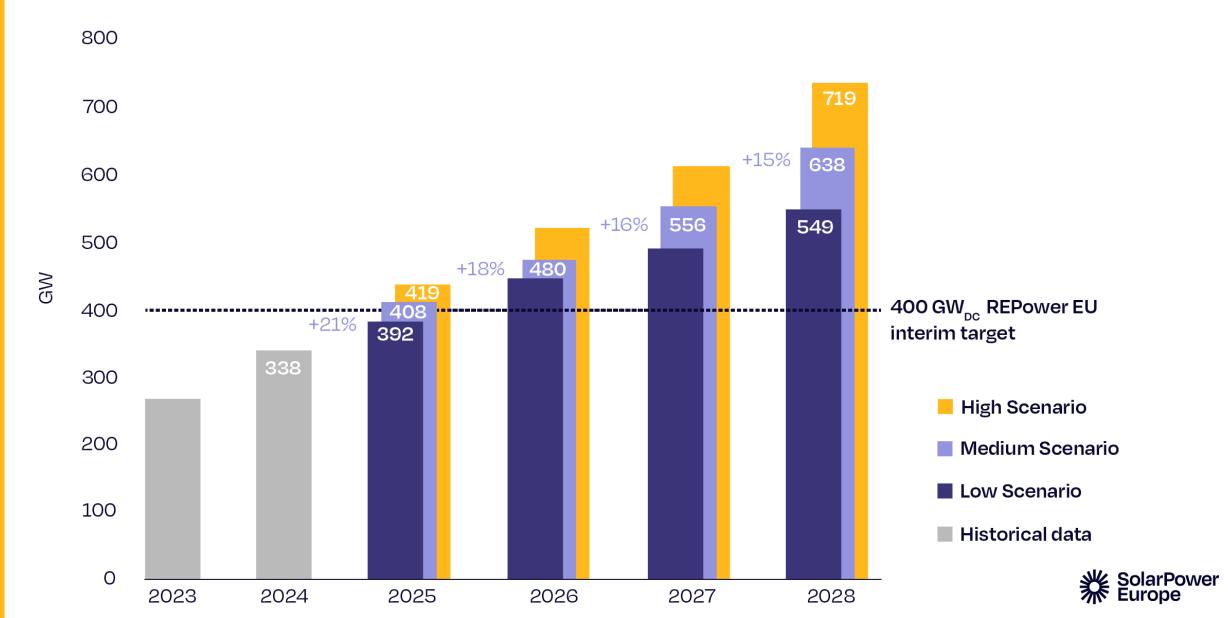
EU-27 annual solar PV market scenarios 2025-2028





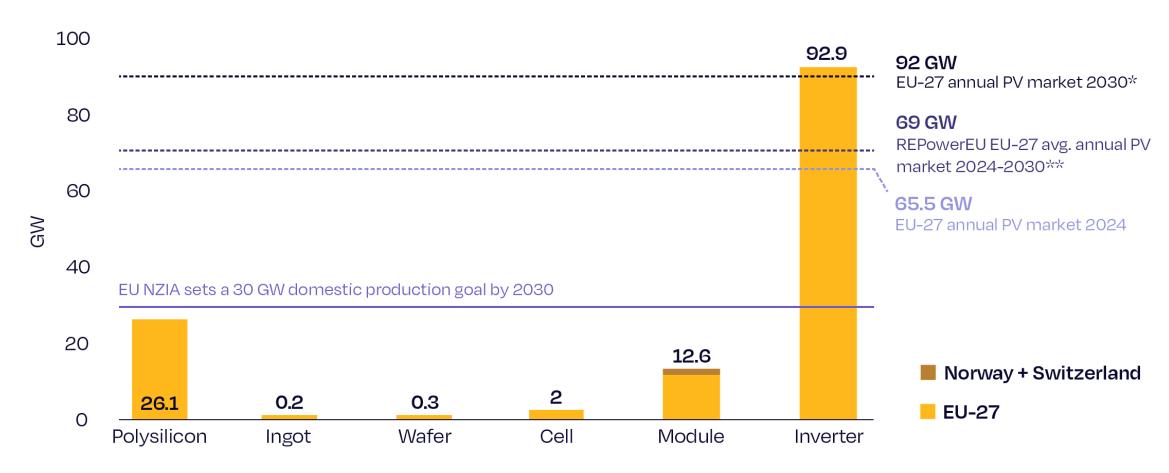
EU solar market narrowly on track to reach REPowerEU 2025 target of 400 GW_{DC}

EU-27 cumulative solar PV market scenarios 2025-2028



Most PV manufacturing segments are far from reaching the 30 GW manufacturing target, and far below meeting current and future market demand

Existing and targeted manufacturing capacity in Europe, compared to existing and targeted annual installations



Note: not including suspended production in Norway.

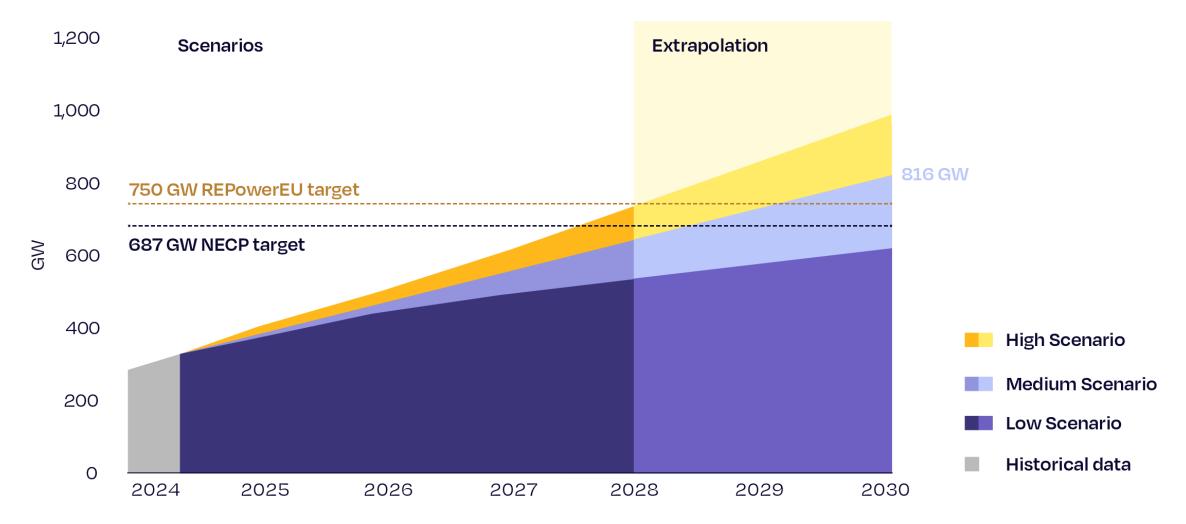


^{*}SolarPower Europe Medium Scenario projection to 2030

^{**}Based on REPowerEU target of 750 GW_{DC} (600 GW_{AC}) installed PV capacity in EU-27 by 2030

NECP and REPowerEU targets will narrowly be reached under the Medium Scenario, despite the outlook being lowered by 8%

EU-27 total solar PV market scenarios 2024-2030





EU policy updates





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Recent policy news: A Clean Industrial Deal & Omnibus Packages (26) February)

Clean Industrial Deal package

- **Clean Industrial Deal** will create the right conditions for companies to thrive while reaching EU's decarbonisation goals
- **Affordable Energy Action Plan** will focus on decreasing energy costs for citizens, businesses, industry and communities across the EU

Omnibus package

- Omnibus I brings coherence and simplification to corporate reporting for CSDDD, CSRD, Taxonomy & CBAM
- Omnibus II Regulation amending the InvestEu Regulation to reduce reporting and administrative burden

Clean Industrial Deal Announced Initiatives

LEGISLATIVE INITATIVES



NON-LEGISLATIVE INITIATIVES

Q1 -

Affordable Energy Action Plan

Framework to phase out fossil fuels subsidies

Roadmap towards ending RU energy imports

State Aid Guidelines revision (June)

Single Market Strategy

Network Charges Tariff Methodologies

EC/EIB pilot programme for corporate PPAs

Citizens Energy Package

Energy Taxation Recommendations

Guidance on CfDs

European Grids Package

Electrification Action Plan

White Paper on deeper electricity market integration

Heating & Cooling Strategy

Net-Zero Industry Act

To support at least **30 GW of solar PV manufacturing** capacity by 2030 across the full PV value chain

- **Enabling conditions for net-zero manufacturing:** streamlining permitting processes; strategic projects with priority status
- **Rules on access to markets**: Public procurement and auctions (see below)
 - **Pre-qualification** and/or **Award criteria** on Responsible business conduct, Cybersecurity, Resilience, Environmental sustainability, Innovation, etc.
 - Non-price criteria to apply to at least 30% of the volume auctioned per Member State, starting Jan 2026

