

European framework for capacity mechanisms

June 2018

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Context



The Commission's sector inquiry on capacity mechanisms confirmed that...

- Many Member States have yet to implement market reforms that are indispensable to deliver on security of supply issues.
- Member States have often failed to adequately assess the need for a capacity mechanism before introducing one.
- The design of most capacity mechanisms could be significantly improved to minimise competition distortions.

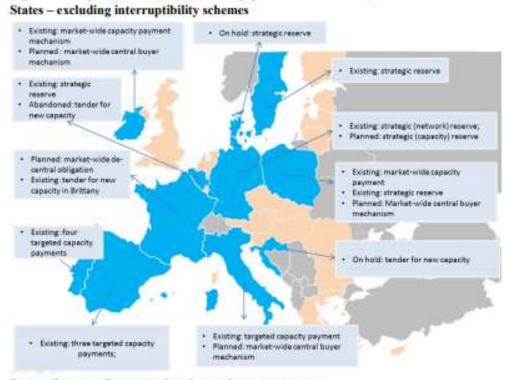


Figure 23: Capacity mechanisms (existing, planned and on hold) in the 11 Member

Source: European Commission based on replies to sector inquiry

What the clean energy package can achieve



- 1. Make capacity mechanisms only a temporary, last resort option.
- 2. Evaluate on the basis of a common assessment framework.
- 3. Minimise the impact on sustainability and competition.
- 4. Ensure rules are applied to all schemes.

Extra: The case of strategy reserves.

1. Capacity mechanisms as a temporary, last resort option



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LAST RESORT (EMR Art 18)



MS to develop an 'implementation plan' to eliminate distortions and market failures at the root of the adequacy concern.

The plan must be approved and reported on, with scrutiny from COM and ACER.

No capacity mechanism can be put in place without an approved plan.

MS to identify issues contributing to their adequacy concern and publish a '*roadmap*' with a concrete timeline for eliminating them.

No approval process, no follow-up, no role in approval of capacity mechanisms.

Capacity mechanisms may be introduced to address residual concerns.

TEMPORARY

Capacity mechanisms shall be approved by the Commission for **no longer than five years**.

"Capacity mechanisms shall be temporary but..." (but are permitted as long as the relevant resource adequacy assessment identifies a resource adequacy concern)

2. Assessed on the basis of a common framework



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 MS to monitor resource adequacy on basis of the <u>European resource</u> adequacy assessment (ERAA).



ERAA to contain a worst case scenario (but not best case scenario).

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- ERAA based on "appropriate central scenarios" of projected demand and supply.
- One NRAA must be based on the same methodology and use the same modelling tool as the ERAA, take into account contribution of foreign capacity, but can include additional scenarios, sensitivities and assumptions. MS may also perform a 2nd assessment using different modelling tools.
- If the national assessment alone identifies adequacy concerns, ACER to provide opinion on basis of input from relevant body and ENTSOE.
- Capacity mechanisms shall not go beyond 'what is necessary to address the resource adequacy concern' – according to which assessment?

3. Minimise the impact on sustainability and competition Competition





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COMPETITION - BETWEEN ALL MARKET PARTICIPANTS



CRMs shall be open to participation of all resources ("including storage and demand side management").

Contracts for existing installations limited to length of 1 year.

CRMs shall be open to be open to participation of all resources ("including storage, energy efficiency and demand response").

COMPETITION – CROSS-BORDER PARTICIPATION

CRMs other than strategic reserves shall be open to direct participation of capacity providers located in another MS.

MS shall not restrict capacity located in their territory from participating in CRMs in other MS.

CRMs including strategic reserves when possible, shall be open to direct participation of capacity providers located in another MS.

MS shall not restrict capacity located in their territory from participating in CRMs in other MS.

3. Minimise the impact on sustainability and competition Sustainability (1/2)





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SUSTAINABILITY CRITERION ("550")

No payments to <u>new</u> plants emitting more than 550gCO2/kWh right after entry into force.

Some lax restrictions to payments to <u>new</u> plants emitting more than 550gCO2/kWh from 2026 (but no actual end date).

No payments to <u>existing</u> plants emitting more than 550gCO2/kWh 5 years after entry into force, with some <u>restricted</u> derogations for strategic reserves.

Some lax restrictions to payments to <u>existing</u> plants emitting more than 550gCO2/kWh after 2030 (but no actual end date).

'New' defined as capacity which has started commercial production after entry into force.

'New' defined as capacity for which a final investment decision has been made after entry into force – plants which will be built in a couple of years could be considered as 'existing'.

Criteria calculated for emissions per unit of **electricity**.

Criteria calculated for emissions per unit of **energy**: could fully exempt coal plants providing heat as well as electricity.

To apply to all schemes.

Risk of it applying **only** to entirely new schemes.

3. Minimise the impact on sustainability and competition Sustainability (2/2)



- Building on the Commission's original proposals, both the European Parliament and the Council have decided to grant exemptions to plants emitting more than 550gCO2/kWh, by introducing new criteria expressed in kgCO2/kW.
- These criteria limit the number of hours a given plant can run in a year, in function of how much it emits – it sets a 'carbon budget' per plant. For instance, a coal plant emitting 750gCO2/kWh could run at full capacity:
 - up to 267h a year and stay under the threshold set by the European Parliament
 - Up to 933h a year and stay under the threshold set by the Council GA

| | 200 kg/kW (EP) | 350 kg/kW (Original FR proposal) | 700 kg/kW (Council GA) |
|--|-------------------|--|---------------------------|
| 550 gCO2/kWh (Some oil, diesel, gas plants) | 364 h / 15 d | 636 h / 27 d | 1273 h / 53 d |
| 750 gCO2/kWh (Hard coal) | 267 h / 11 d | 467 h / 19 d | 933 h / 39 d |
| 1000 gCO2/kWh (Lignite) | 200 h / 8 d | 350 h / 15 d | 700 h / 29 d |

4. Ensure rules are applied to all schemes









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Member States applying capacity mechanisms shall adapt their mechanisms to comply with the new rules.

... without prejudice to commitments or European Union contracts, concluded before that date, and without prejudice to the Union State aid rules pursuant to Articles 107 to 109 TFEU, including state aid decisions taken thereafter before that date.



Including DG COMP: when it approved new FR, BE, DE, EL, IT and PL schemes in February 2018, it introduced a 'review clause' as part of its decisions...

"When [the clean energy package is] adopted, Member States will have to adapt all existing State aid measures to the future legislation". (see press release)

Extra: the case of strategic reserves





European Parliament

Council GA



STRATEGIC RESERVES & OTHER TYPES OF CRMs

Promotes a "strategic reserves first" approach: MS shall assess whether a SR can do the job before introducing a different type of CRM.

Strategic reserves do not have to be open to cross-border participation.

All CRMs are equal.

Strategic reserves, when technically feasible, must be open to cross-border participation.

DEFINITION OF STRATEGIC RESERVES

More stringent definition: capacity in strategic reserves must be held outside of the market, and be dispatched only when all other options have been exhausted.

Weaker definition: capacity in strategic reserves must be held outside of the market, and can be dispatched when TSOs 'are likely' to exhaust all other options.

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Other resources



- European Commission FAQ on sector inquiry
- "Capacity payments, the final ingredient to supercharge coal" by Sandbag
- RAP <u>"Realising the benefits of European market integration"</u>















European and regional adequacy assessments at the core of an efficient and secure energy transition

To Permanent representations of the EU, Energy attachés

Dear Madam, Dear Sir,

COGEN Europe, E3G, Energy Cities, Greenpeace, SolarPower Europe, WindEurope and WWF would like to express their concerns regarding the latest developments within the Council on the Electricity Regulation.

More information



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