

Analysis of different flexible technologies in the Spain NECP for 2030

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The logo for the World openTEPES Conference features a stylized graphic of three overlapping squares in green, blue, and orange above the text. The word "World" is in blue, "openTEPES" is in green, and "Conference" is in a lighter green.

World
openTEPES
Conference

The openTEPES logo consists of a stylized graphic of three overlapping squares in green, blue, and orange above the text. The word "open" is in blue and "TEPES" is in a darker blue.

open
TEPES



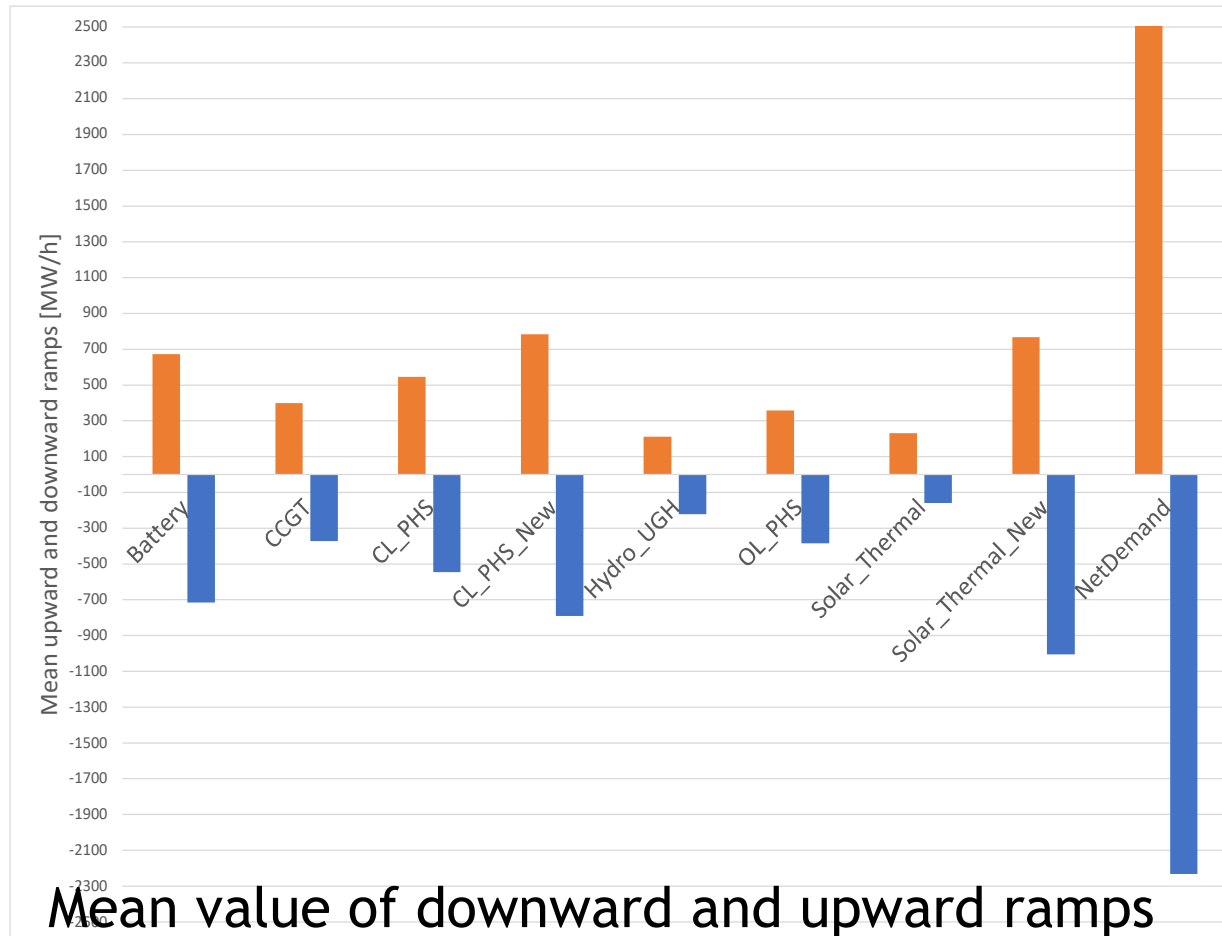
IIT
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TECNOLÓGICA

Flexibility assessment

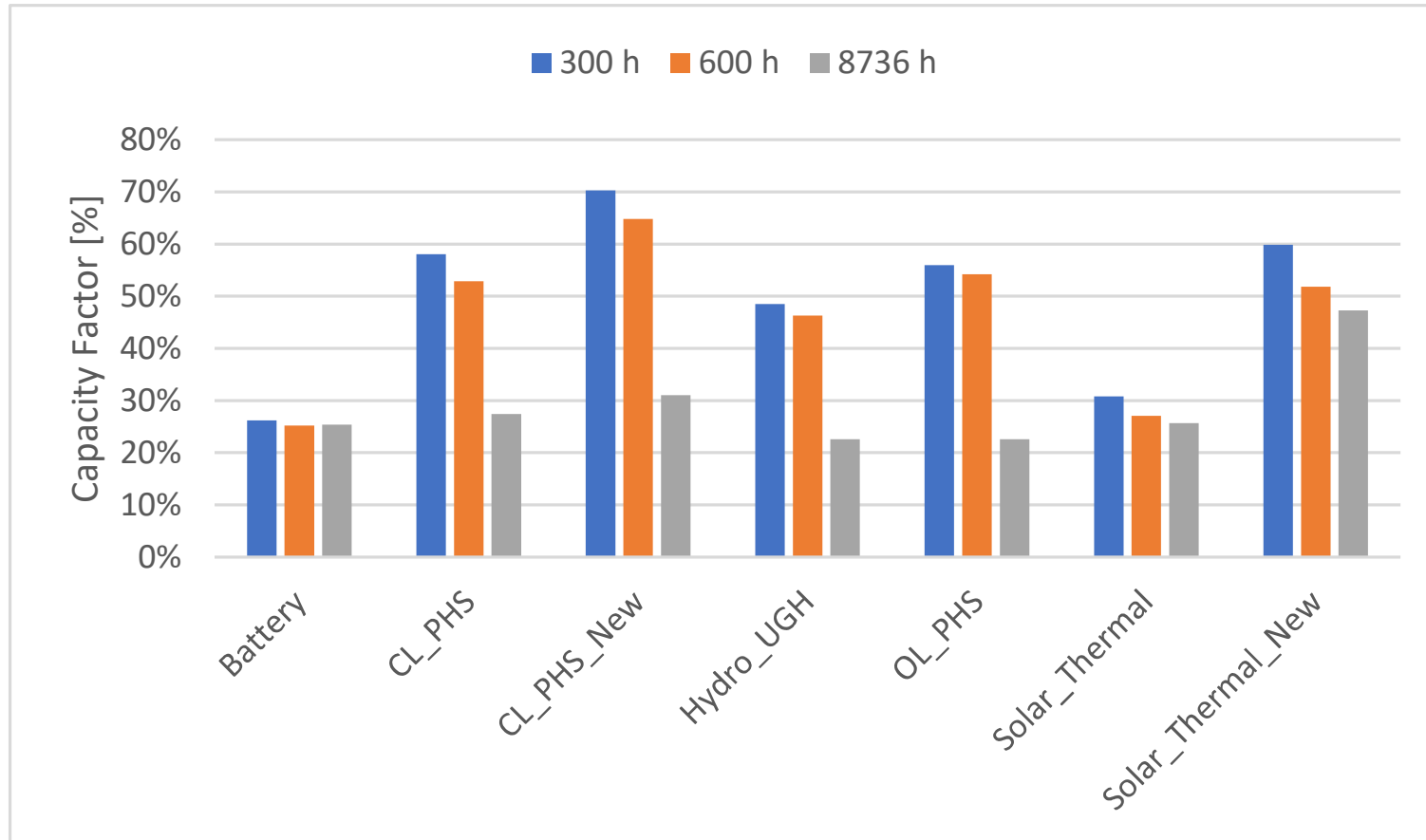
- **Power gradient.** Ramps [MW/h]
- **Power** [MW]
 - Firmness (medium-term)
 - Adequacy (long-term)
- **Energy** [MWh]



Operational flexibility. Ramps

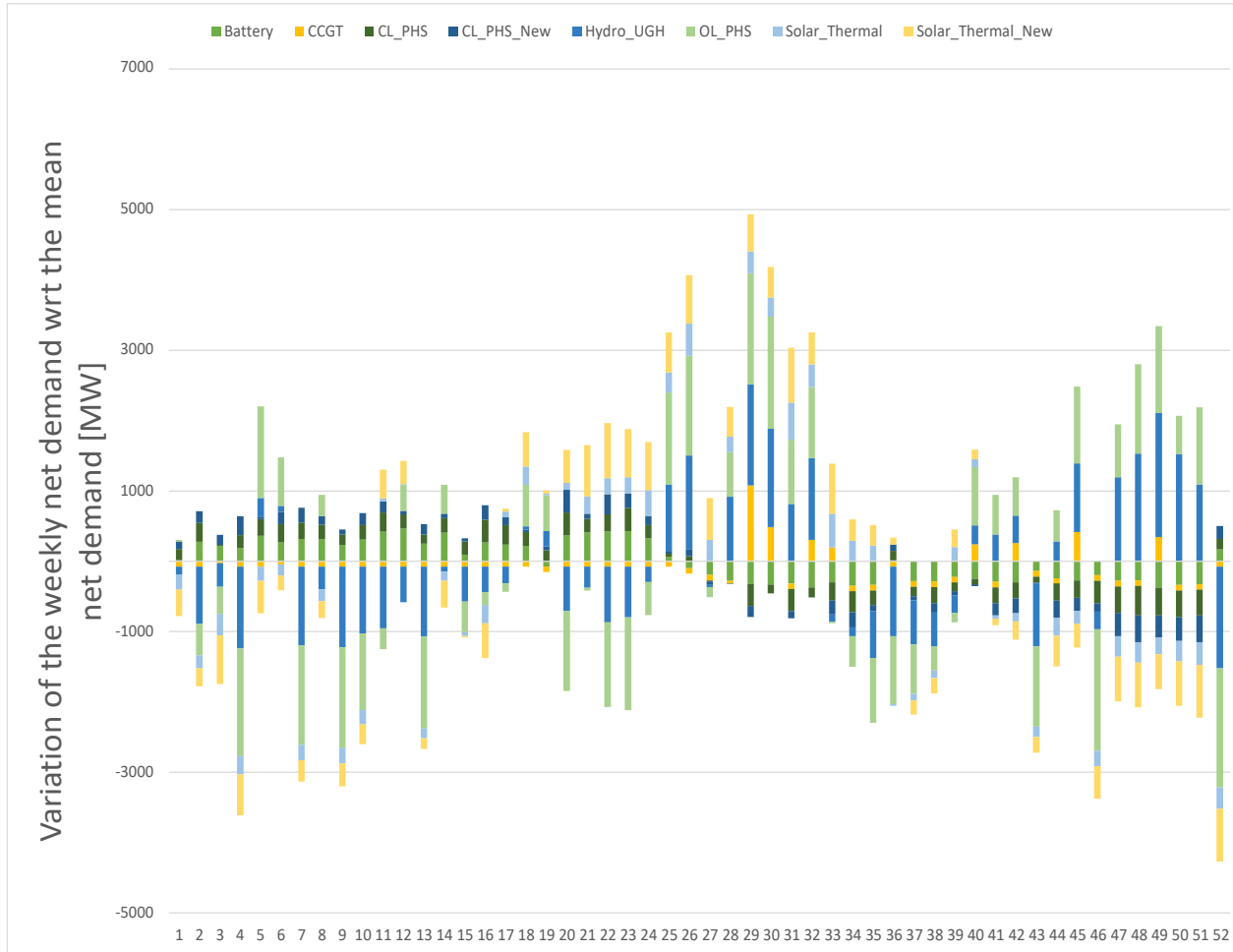


Operational flexibility. Power



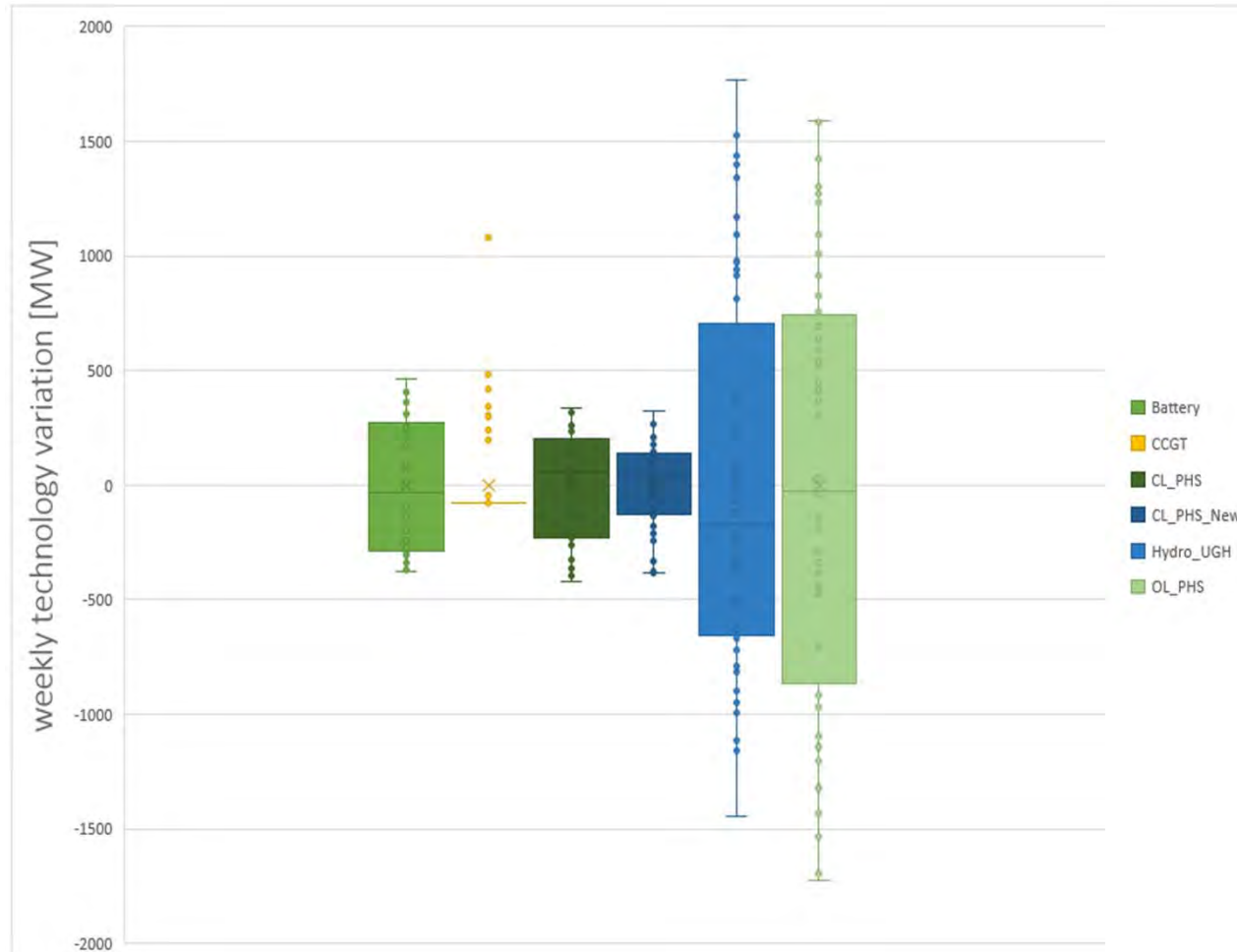
Technology capacity factors at peak hours of net demand

Operational flexibility. Energy (i)



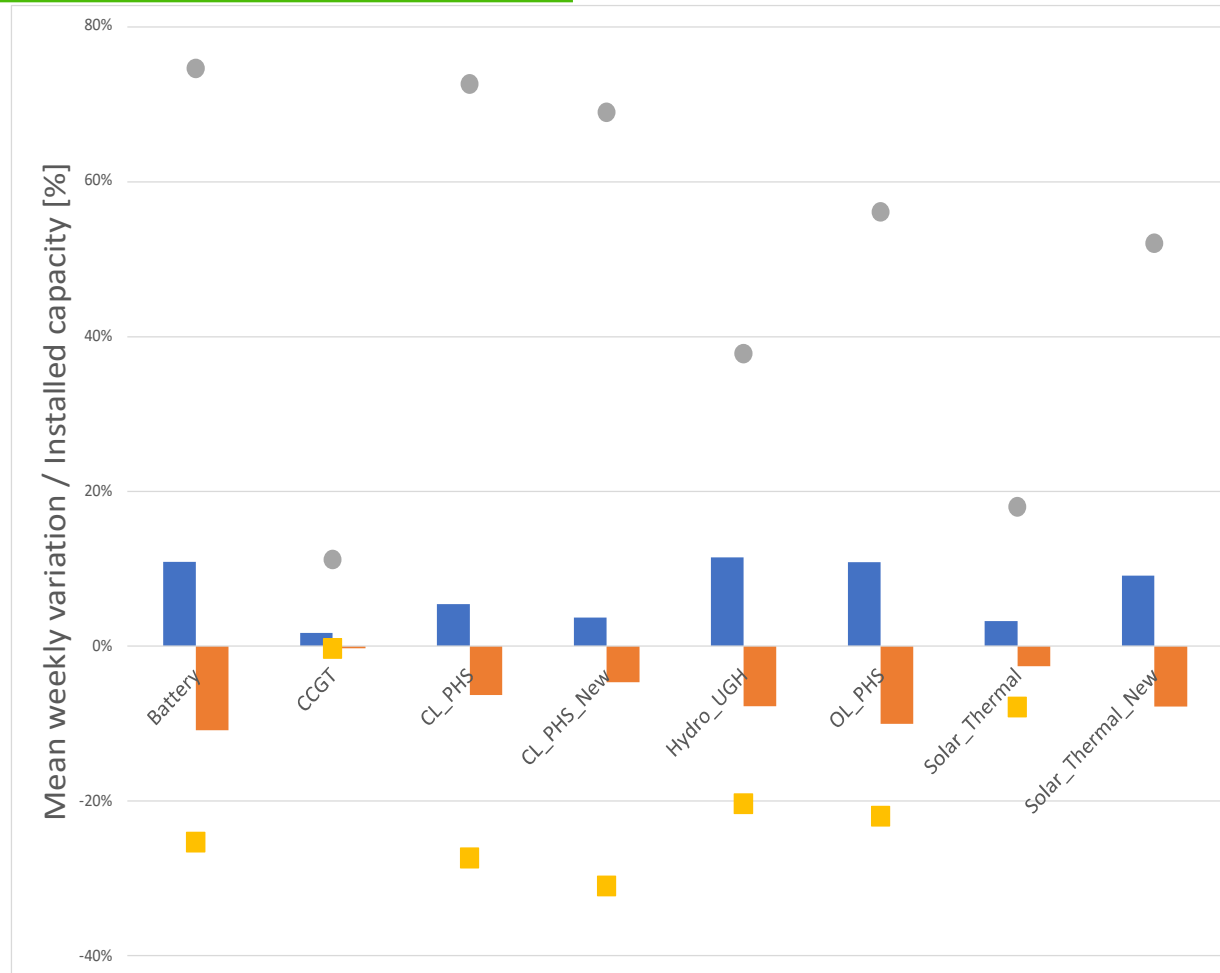
Contribution of each flexible technology to the variation of the weekly net demand with respect to the mean net demand

Operational flexibility. Energy (ii)



Weekly variation of each technology

Operational flexibility. Energy (iii)



Mean weekly variation of each technology with respect to its installed capacity

Thank you

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