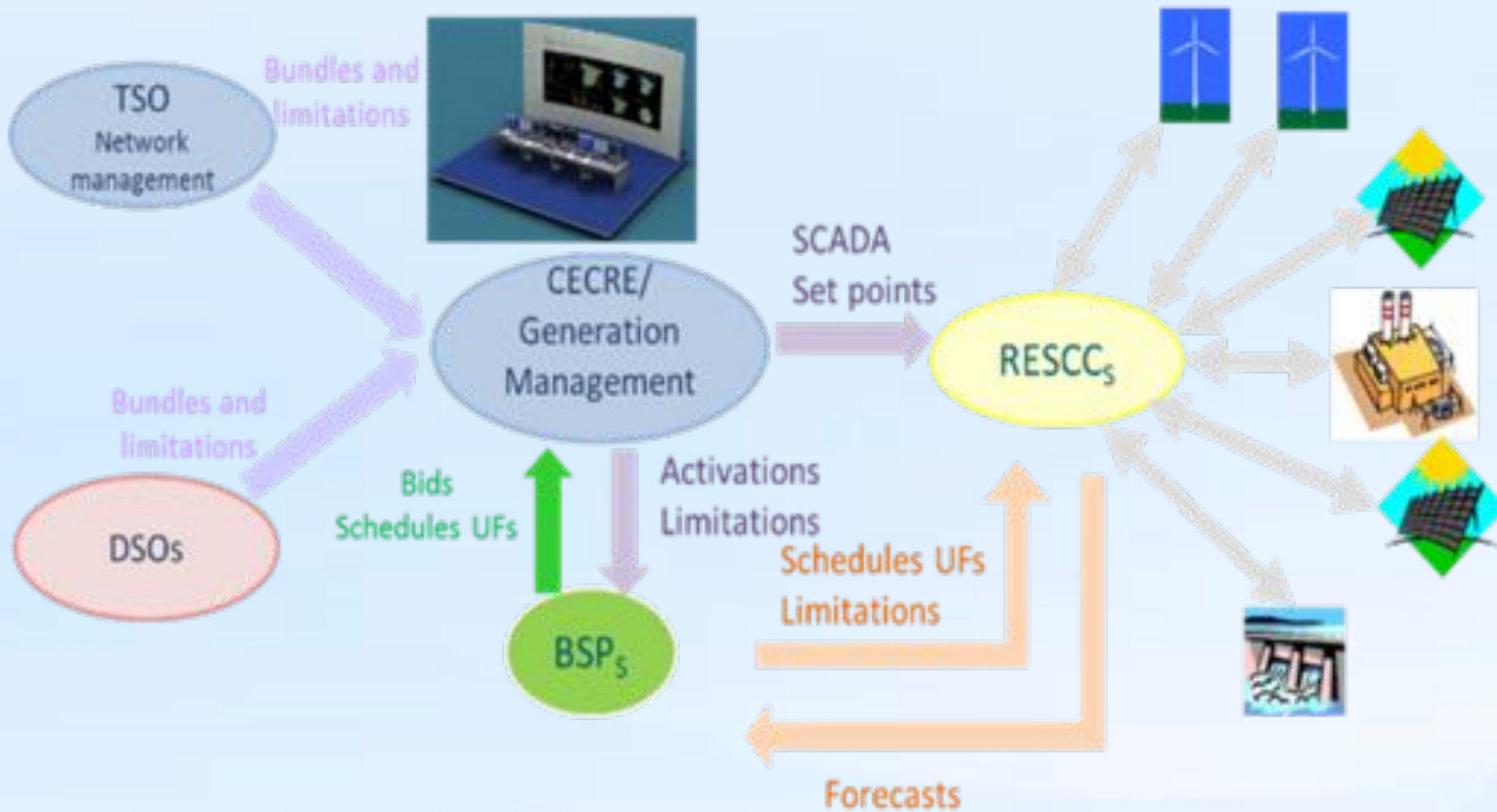


The Control Center for Renewable Energies (CECRE) in Spain



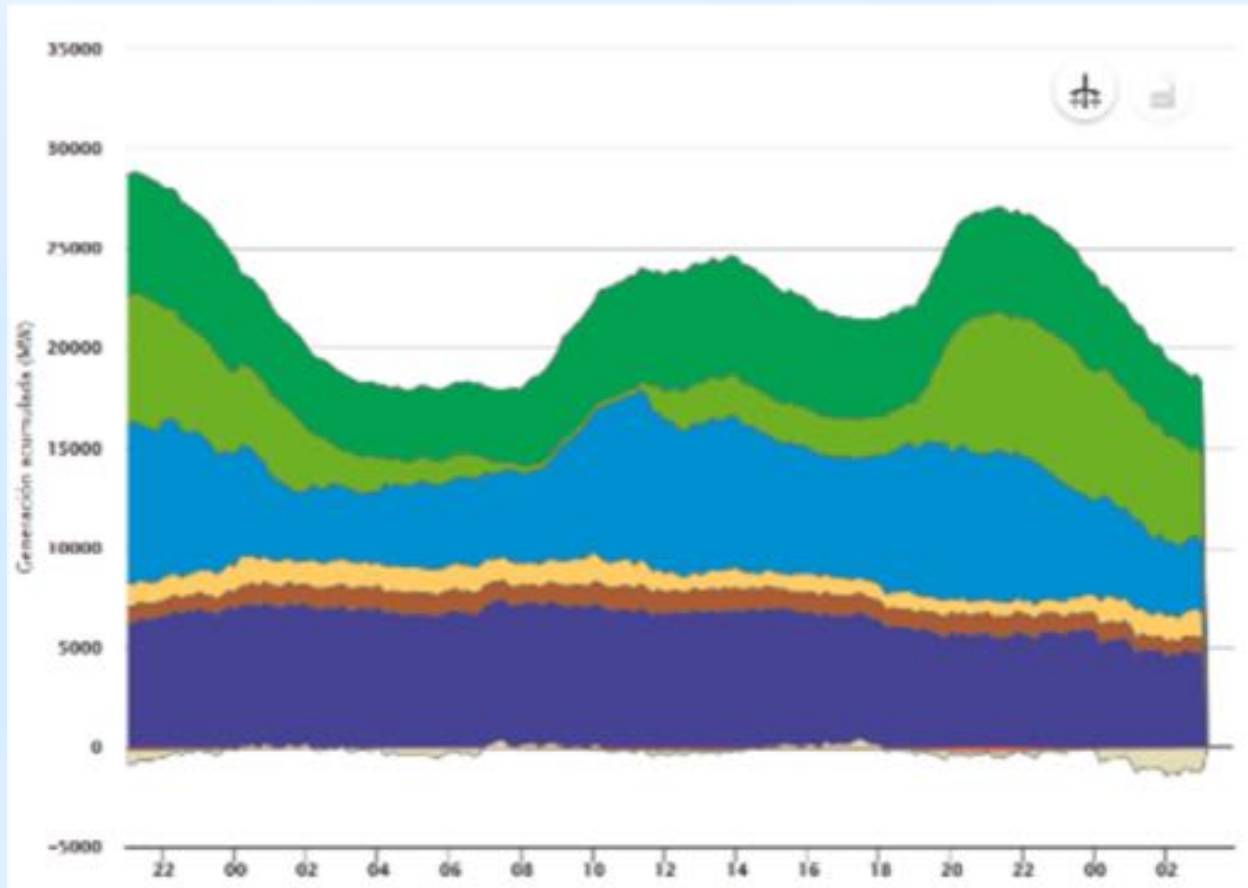
The CECRE communicates with 35 private renewables control centers which aggregate more than 3000 generation units, 900 of which are wind farms.

Information exchange through the CECRE

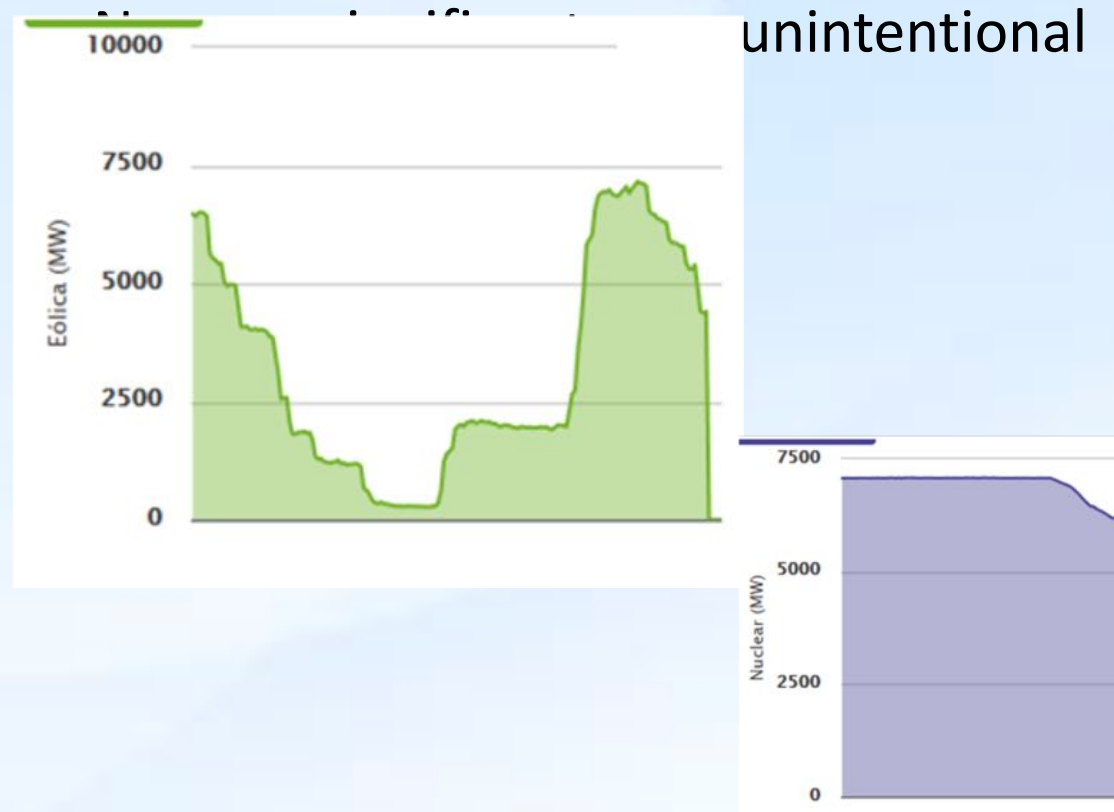


- Real-time information is provided to the CECRE for generation modules > 1 MW and controllability is provided for > 5 MW.
- If limits are needed, active power set-points are calculated and sent. Compliance by the generation modules shall be provided in 15 min.
- The limits are calculated by the CECRE considering downward bids.

RES controllability by the CECRE in extreme situations



- Balancing on March 29th 2013.
- Wind output controlled during the whole day.





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