



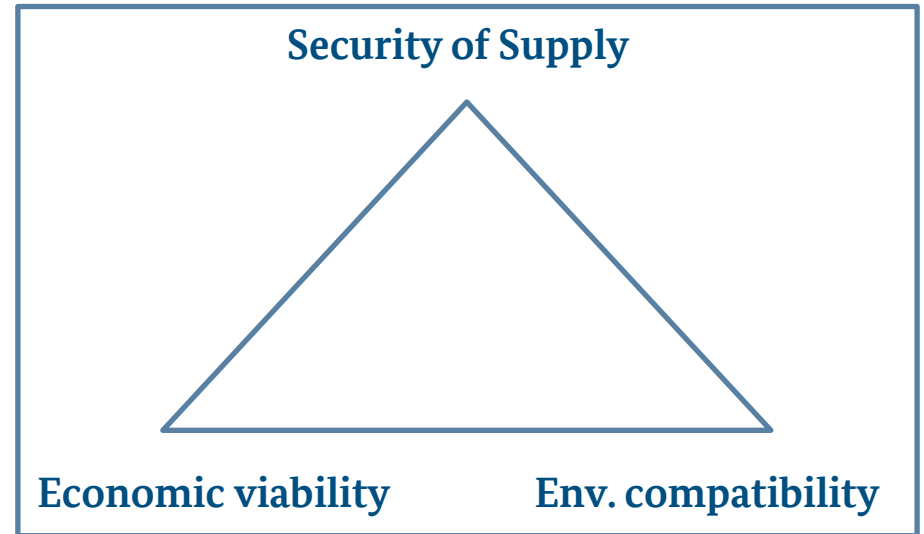
Bundesministerium
für Wirtschaft
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Flexibility in Germany: Status Quo and Perspectives

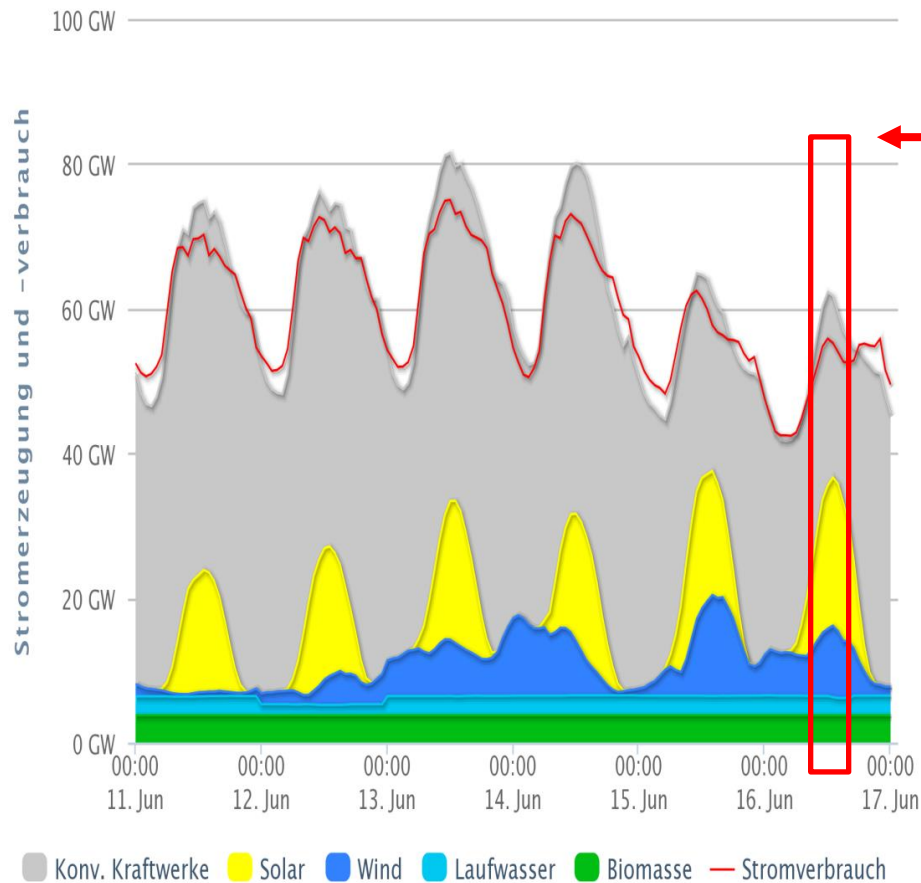
24.11.2015

Laure Kaelble

Flexibility: Why?



Flexibility: Why?

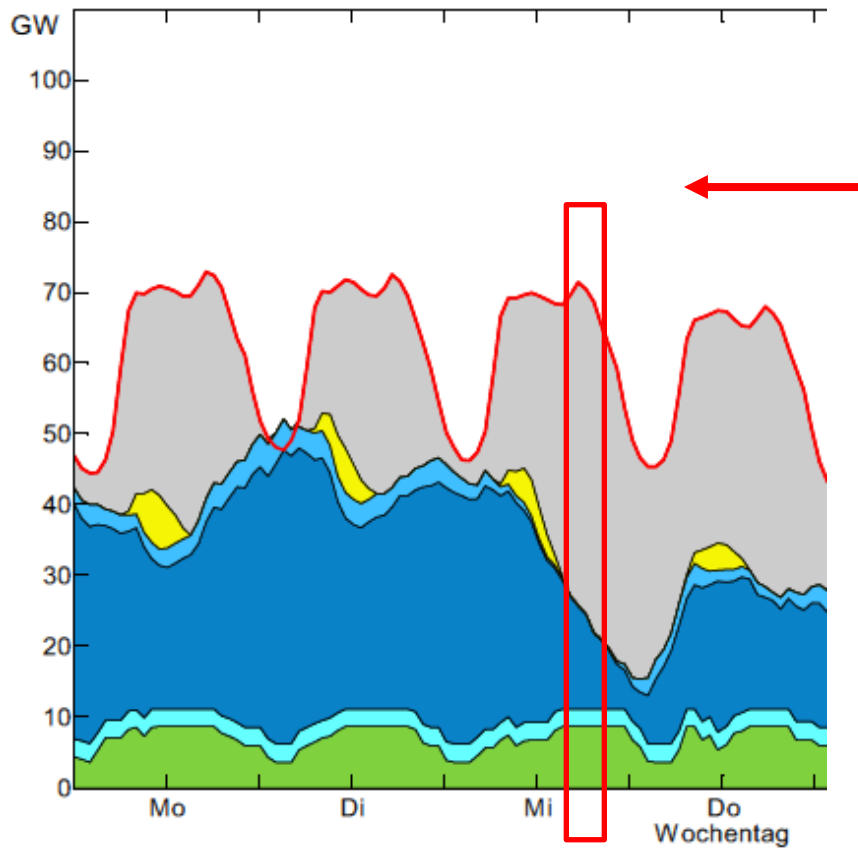


1st challenge:

- Much wind/pv meet...
- low demand and...
- currently still high muss run

Stand: 15.07.2013, 14:30

Flexibility: Why?



2nd challenge:

- Few wind/pv meet...
- High demand

Flexibility: What?

	Much wind/pv, low demand	Few wind/pv, high demand
Conventional power stations	Shut down	Hochfahren
CHP Plants	Shut down, Use Heat storage, Use PtH	Hochfahren
Wind/ PV	Shut down, use battery storage, optimize plant design	
Flexibel consumers	Increase / Shift Load	Decrease / Shift Load
EU	Export	Import

Flexibility: What?



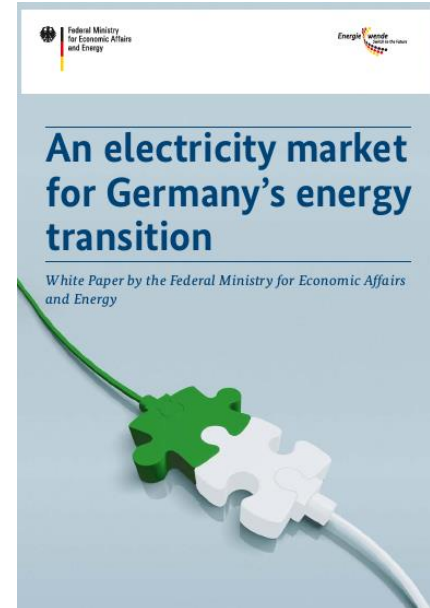
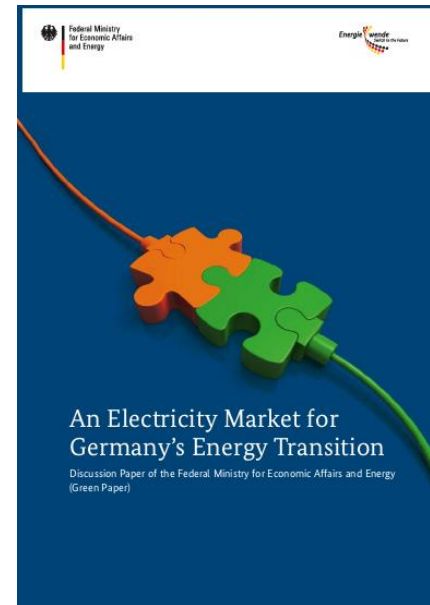
Flexibility: How?

- Competition among flexibility options
- Removing flexibility barriers



Flexibility: How?

1. Expanding power grids
2. Addressing must run
3. Optimising network charges and state-imposed price components



Conclusion

1. We need flexibility
2. We have flexibility
3. We will enable flexibility further



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THANK YOU