



Shaping the Energy Future in the CAREC Region:

-Sustainability through enhanced Interconnectivity and Renewable Adoption

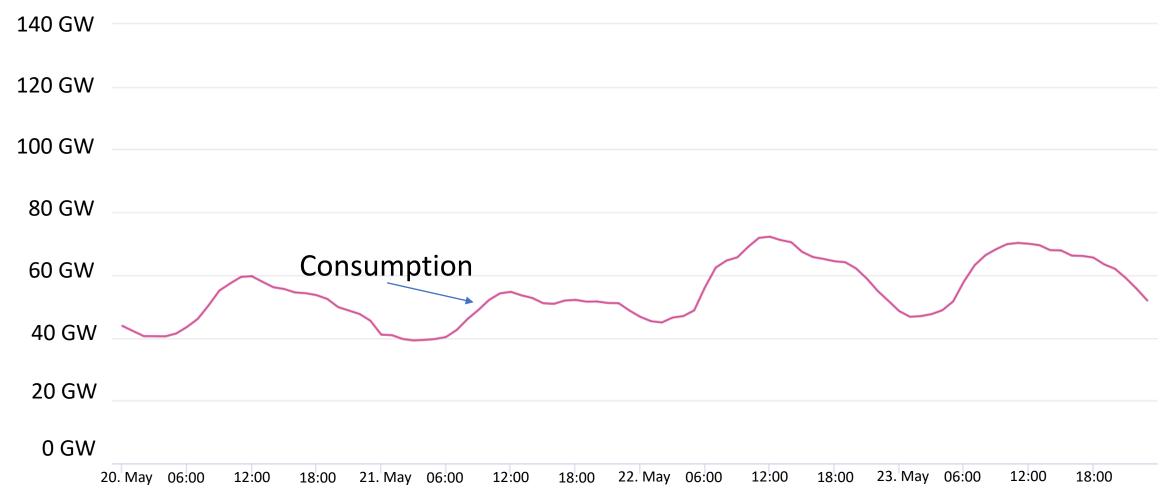
CAREC Senior Officials Meeting, Tbilisi, Georgia – June 13-14 2023

Presentation by Martin Sommerseth Jaer, Finance Specialist (Energy), ADB

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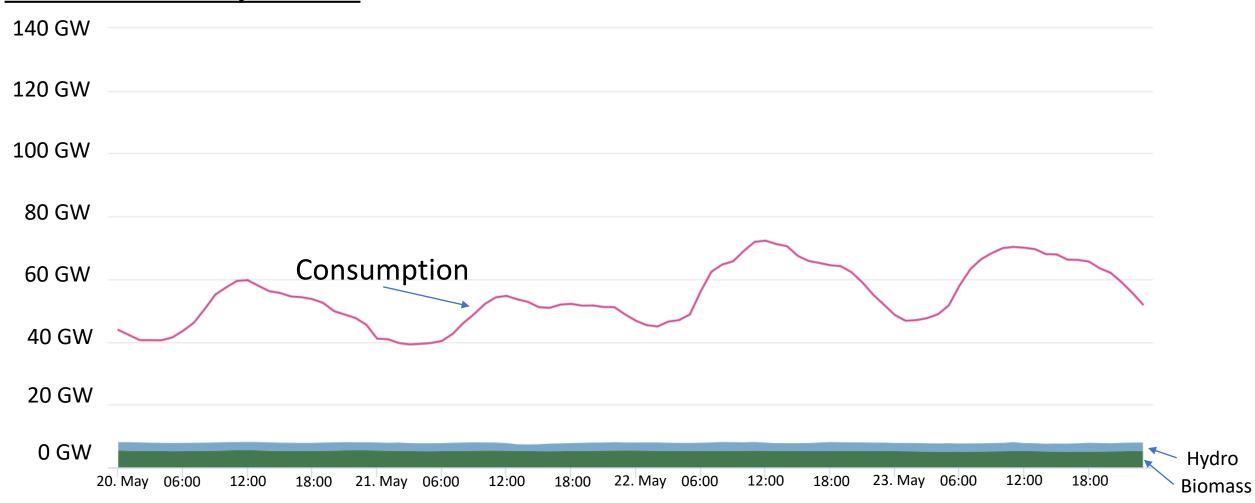


A Four-Day Snapshot of Germany's Electricity Balance



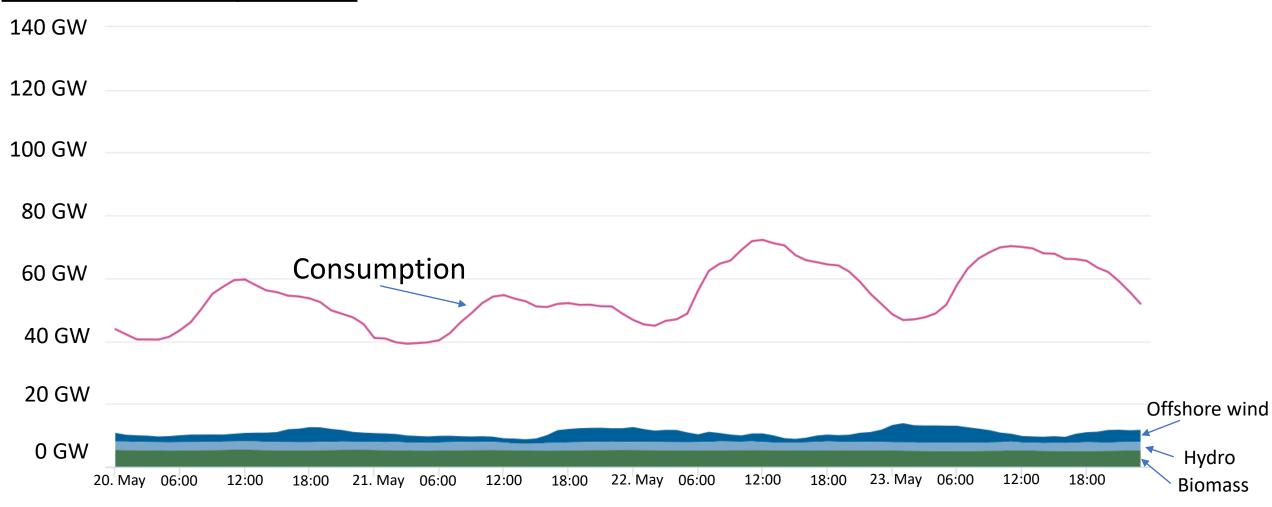


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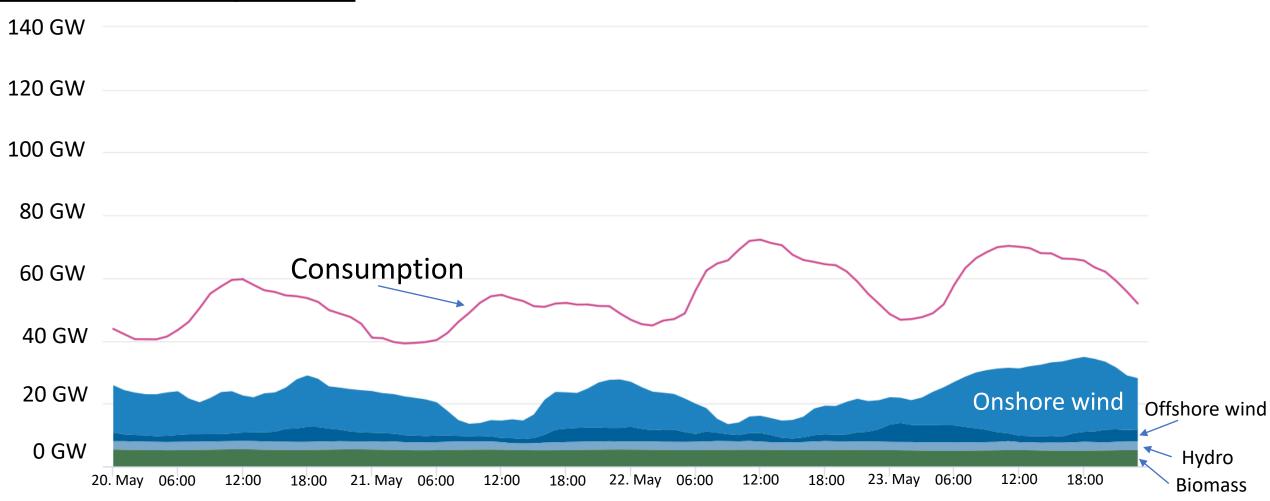


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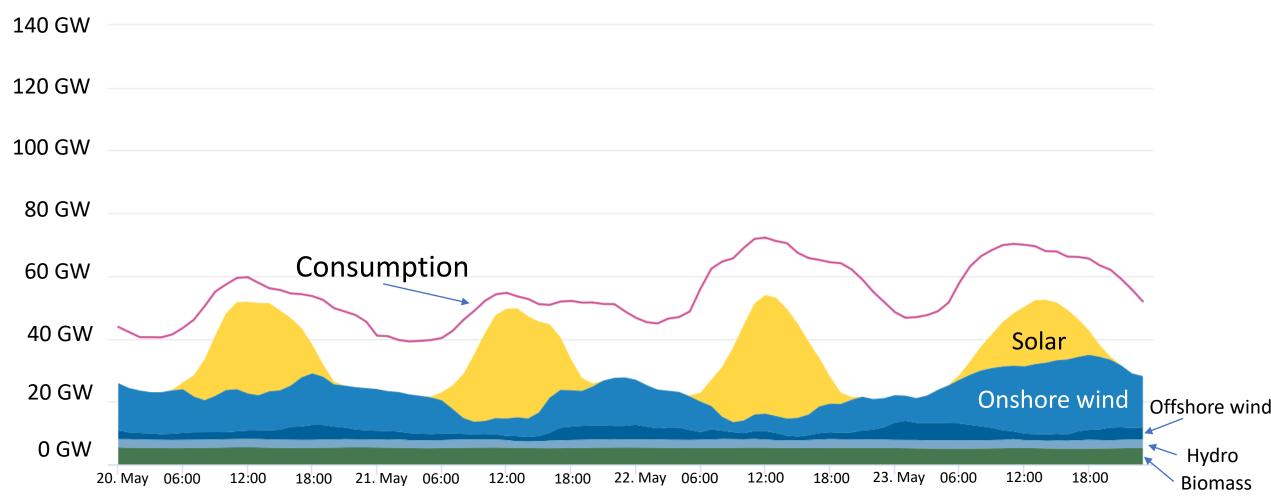


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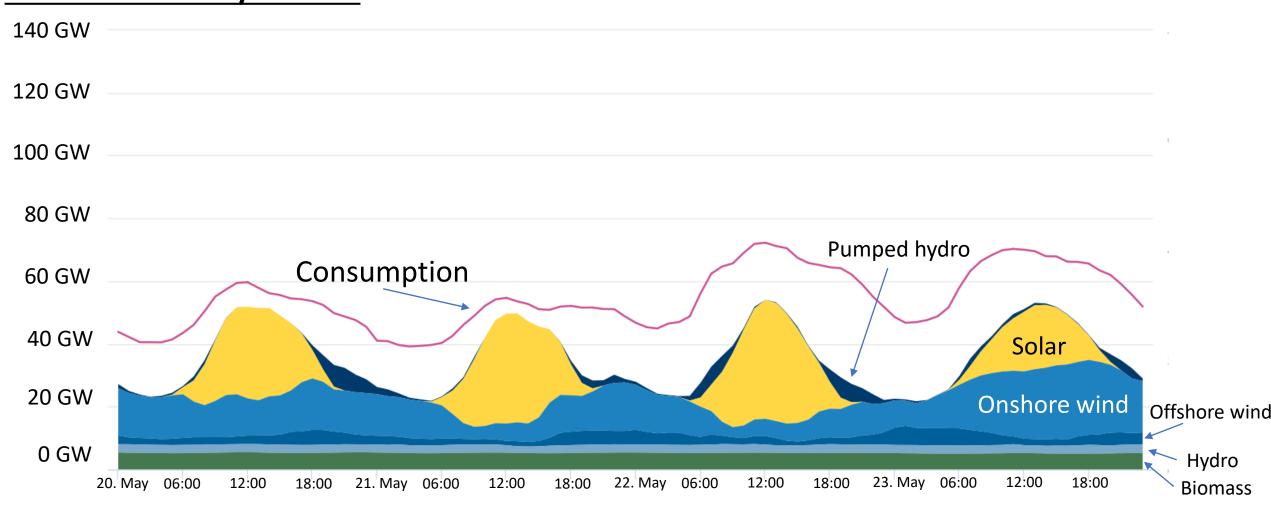


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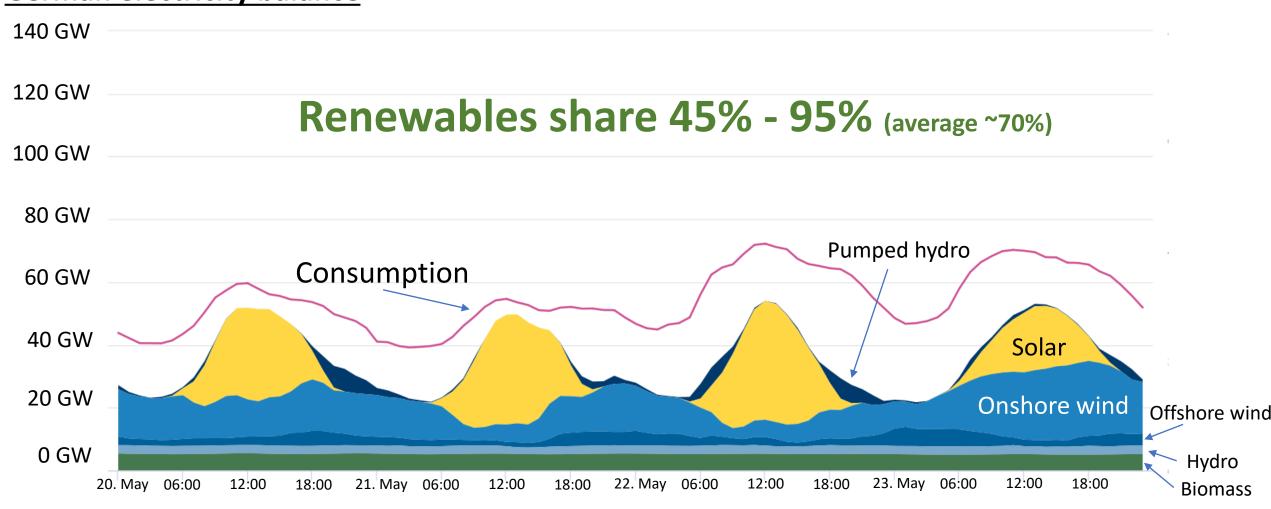


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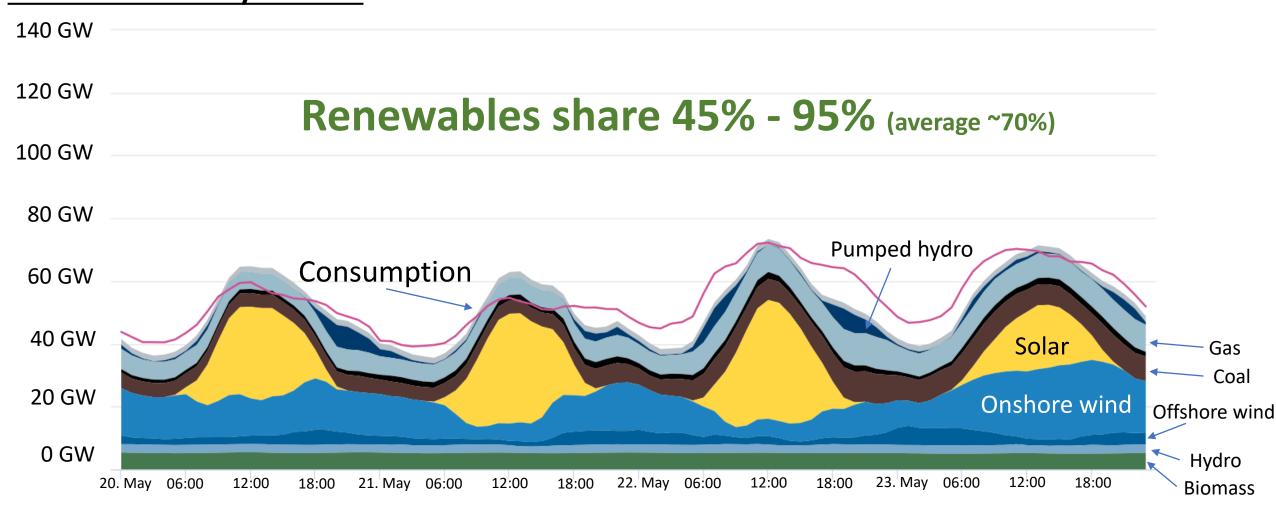


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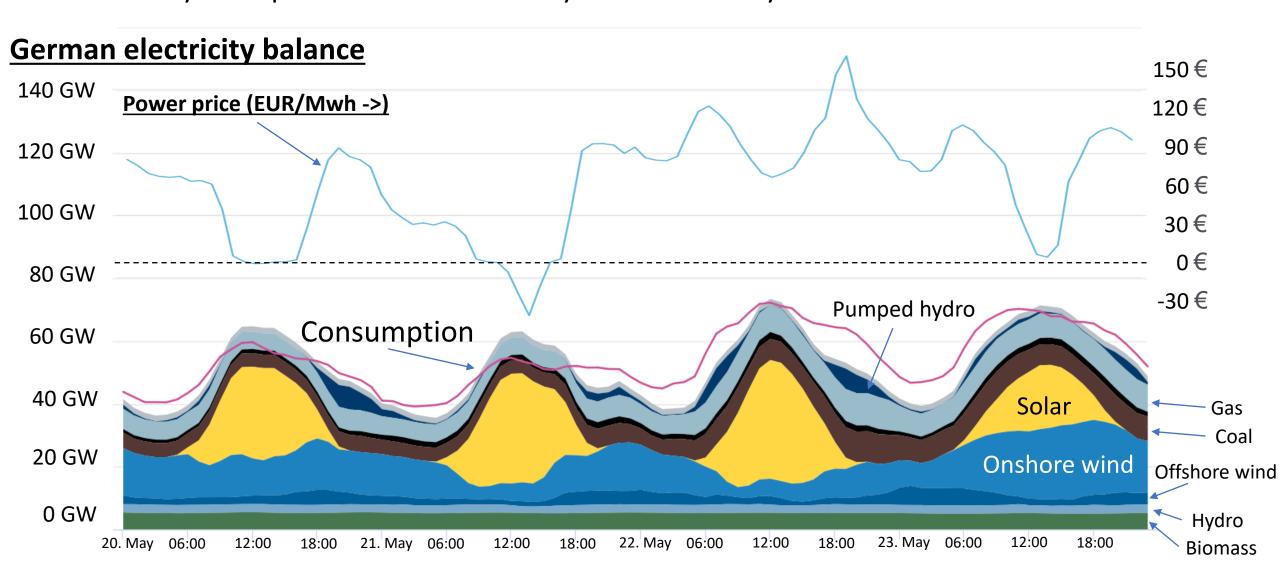




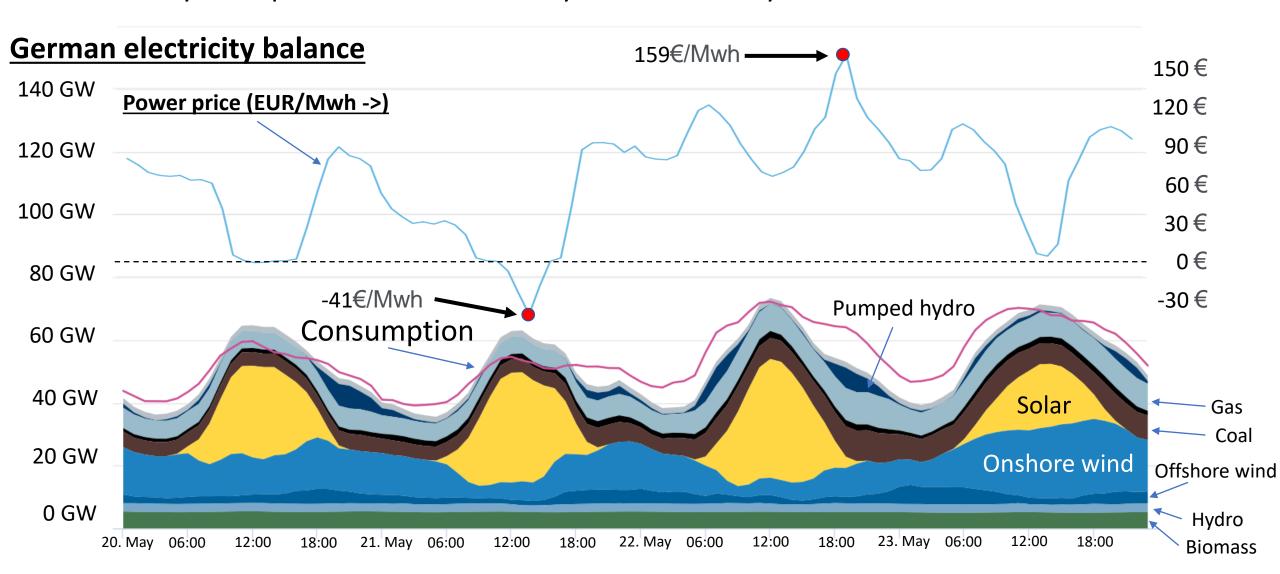
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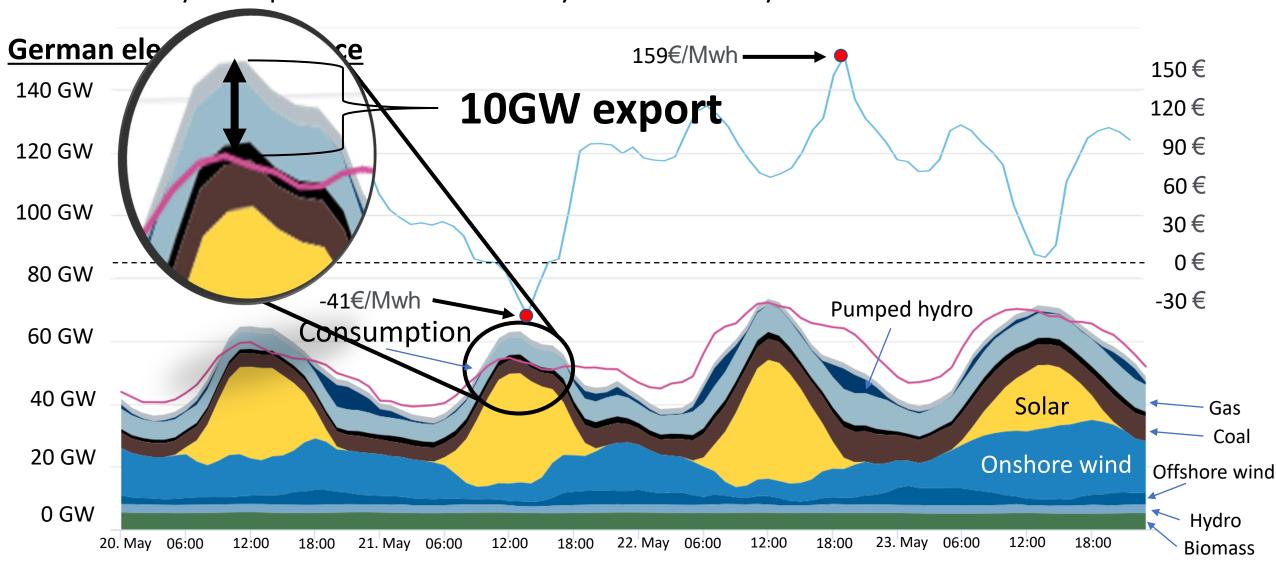




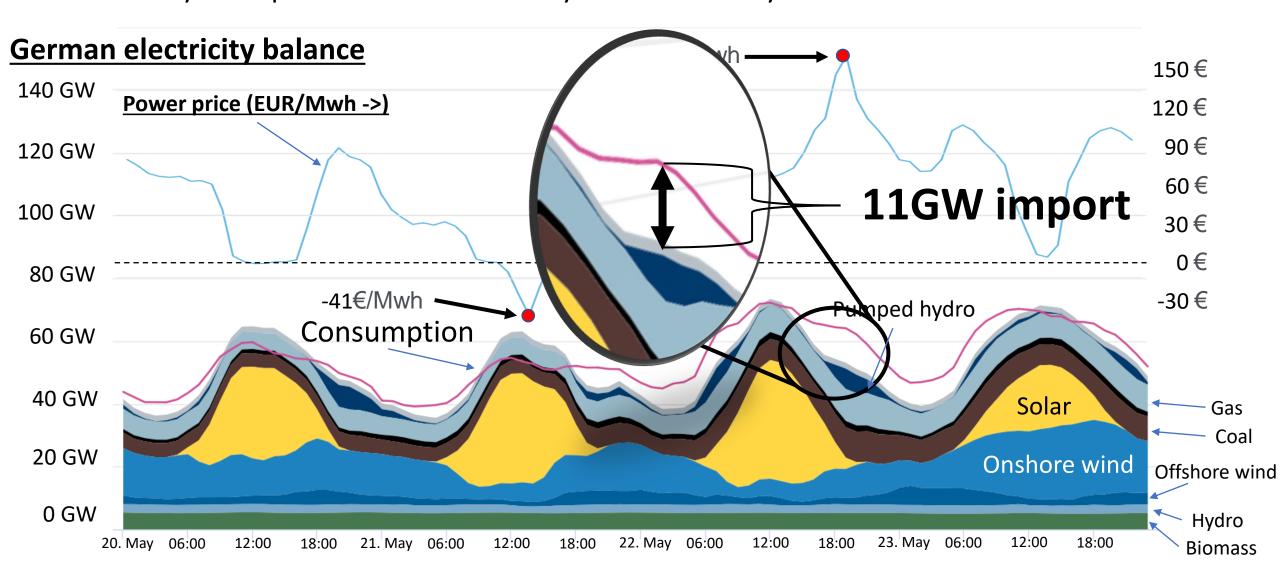












Why discuss these Insights from Europe: Linking lessons to the CAREC Region



Inspirational lessons:

- Data Availability and Transparency
- Market-determined Pricing
- Grid Integration and regional Interconnectivity
- High renewable energy share

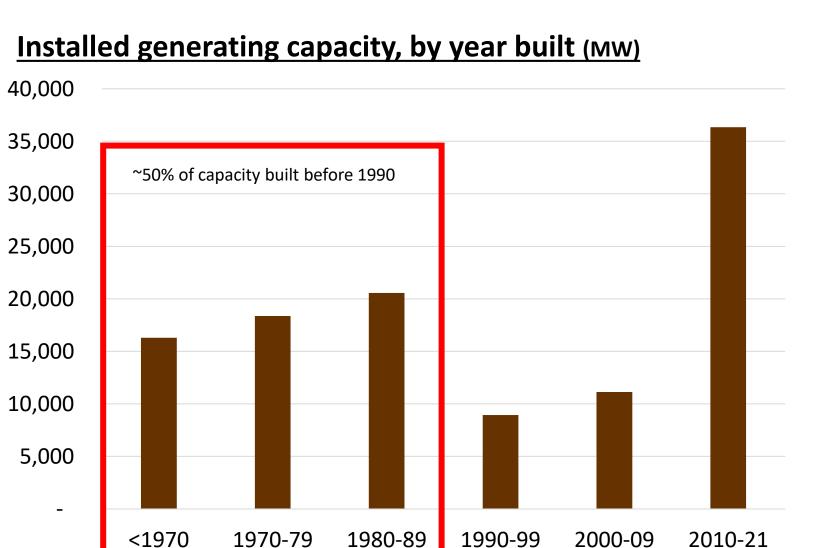
Cautionary tale:

- Energy price volatility
- Variability and need for expensive peaking and balancing power
- Grid stability and security

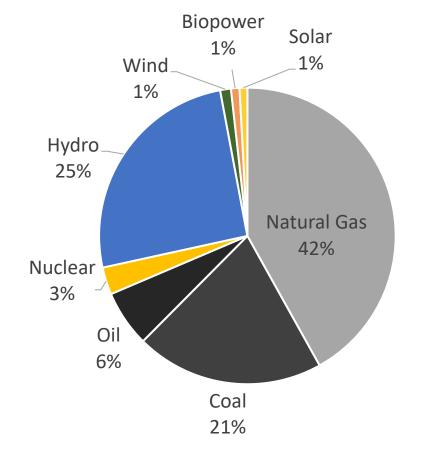
Power sector in the CAREC Context (EX PRC):



Vintage technology and aging infrastructure. High fossil fuel dependency.



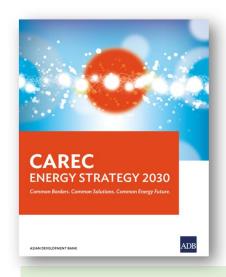
Electricity generation by source



CAREC Energy Strategy 2030:

CAREC ENERGY

Interconnectivity, scaled up investments, sustainability



Key Strategic priorities:

- Better energy security through regional interconnections
- Scaled up investments through marketoriented reforms
- 3. Enhancing sustainability by greening the regional energy system
- Utilizing the CAREC Region's diverse and abundant energy resources, the power sector in the region can become more sustainable and reliable.
- Large scale hydro power projects can be the region's "batteries"; balancing large scale deployment of wind and solar power.
- However: this requires improved regional interconnections and more transparent and market-based electricity trading arrangements.



CAREC ESCC Work program 2023-25: Action based work program next 12 months

other development partners.



Action- and meeting based work program
 -> leveraging on previously delivered knowledge products, coordinated with

Aligned with the CAREC Energy strategy:
 Uniting stakeholders in the region to coordinate and improve regional cooperation in the energy sector

| Activity | Timing |
|---|----------------------|
| Energy Investment Forum | November 28-29, 2023 |
| Transmission and grid infrastructure workshop | TBD |
| Energy Efficiency workshop | TBD |
| Study tour to the Nordic Region | June 2024 |





Thank you