

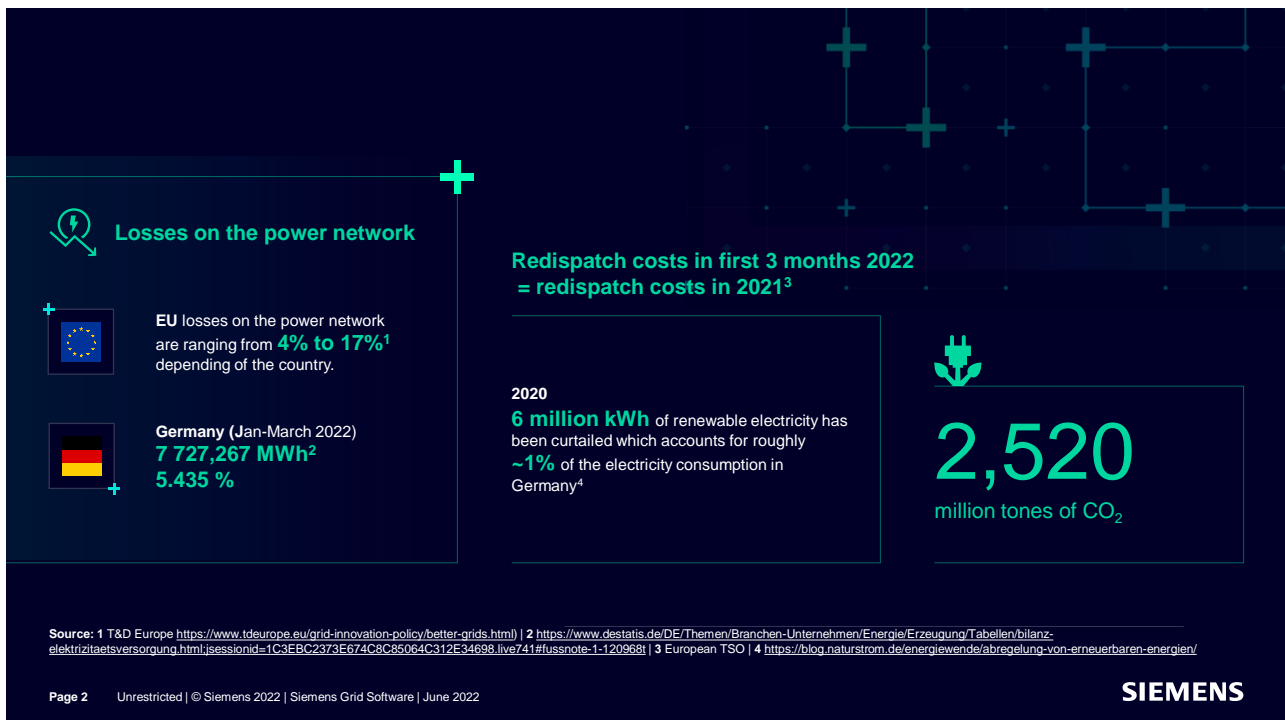
Investing in grid software for a net zero world

Sabine Erlinghagen, CEO Siemens Grid Software

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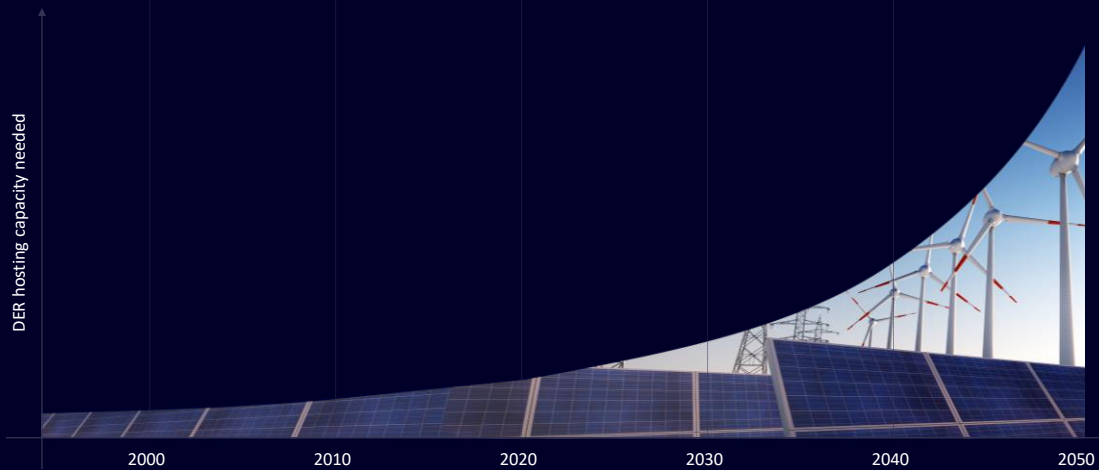
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DER development: Exponential growth towards net zero



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Grid software examples for Game Changers

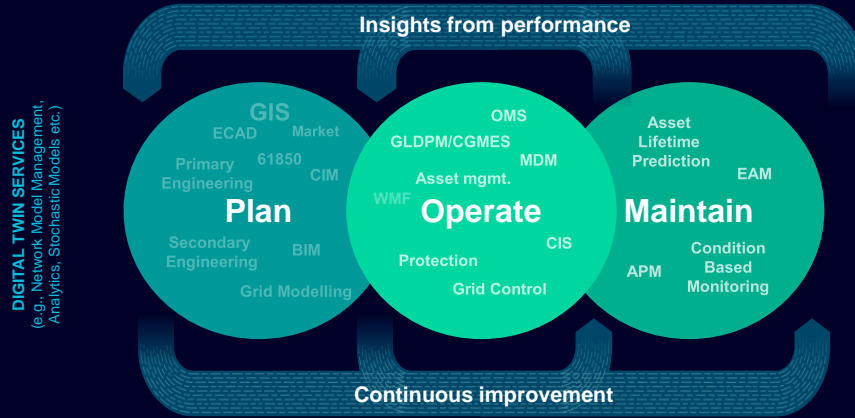
Grid software

	Simulation software can help to identify technical losses equivalent to 10 mid sized power plants	10
	Dynamic line rating to increase the power transmitted over a transmission line by up to	30%
	Automated use of meter and sensor data in grid simulation to reduce SAIDI by	10 – 15%
	CapEx savings and strategic investment decisions based on Meter Data Management	>25 m €
	Digital Twin of grid to reduce efforts for data collection and model creation by	60%

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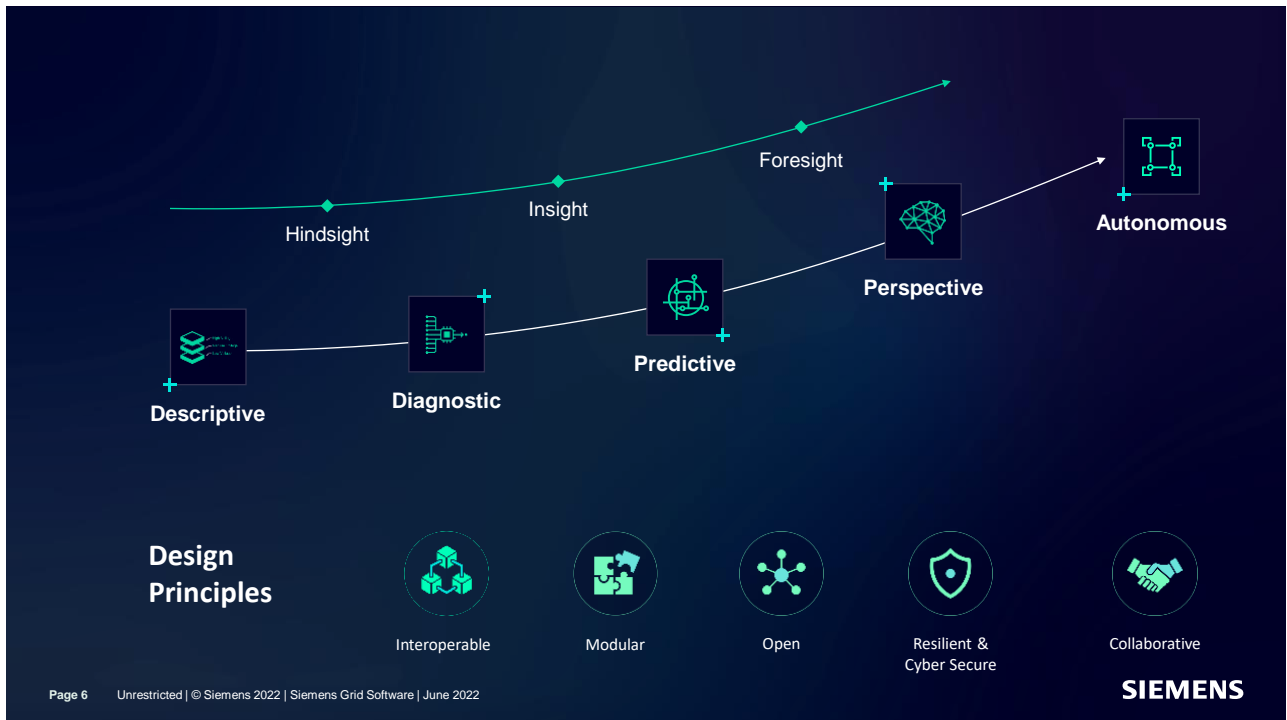
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From isolated OT and IT systems to a lifecycle-spanning and use case-centered approach



The **Digital Twin** is changing the way information is connected

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Grid Software for Flexibility – examples from the U.S. and the EU

USA

CAISO
 For 42 entities, took control of grid oversight in 14 states and Northern Mexico

712,270 Tons of CO₂ savings in 4 years

>\$2.01 bn Value in gross benefits since 2014

30 m People served by CASIO in the US

EU

45% Renewables till 2030

- 55% Green house gas emission by 2030

1 + 1 TW Installed renewables and electromobility by 2030

Platone Pilot project
 Focus on local flexibility market (EU funded)

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With the EU having very ambitious green house gas reduction targets, we have to define the rules of the game

now.

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