

SIEMENS

GRID SOFTWARE

Unlock your grid's hidden capacities. With Dynamic Line Rating.

Siemens Gridscale X™ Dynamic Line Rating software calculates your line capacity in real-time based on current local weather and ambient conditions.



Modularity + Interoperability = Full Flexibility

Gridscale X Dynamic Line Rating can be smoothly integrated into your existing IT/OT and end-to-end workflows across SCADA, EMS/DMS, and other applications. It perfectly complements Spectrum Power and Dynamic Security Assessment applications by making real-time data available for more precise results in operations. Alternatively, it considers the outcomes of external dynamic line rating applications, potentially enriches and validates them, and makes them available to other modules in use.



More power. High grid stability.

Discover how Gridscale X Dynamic Line Rating can boost the current-carrying capacity of lines by 10 to 15% over 90% of the time based on real-time weather conditions. When it is used together with our Gridscale X Dynamic Security Assessment software, operators can evaluate any stability problems before the thermal limit is reached – for added peace of mind.

Discover your benefits.



Increase capacity, reduce costs.

- 10–15% capacity increase over 90% of the time
- Reduced redispatching costs
- Bridging the gap between urgent capacity needs and usual grid extension timelines



Have utmost flexibility.

- No vendor lock-in
- Easy connection to any SCADA system and agnostic sensor data
- Compatible with Spectrum Power™ and the Gridscale X portfolio for better operator guidance and high grid stability



Scale as needed.

- Leveraging the available data from sources such as general weather data, local wind conditions, and individual pylon sensor data
- For any number of rating points, from single high voltage lines to entire transmission grids
- For subtransmission and transmission lines at DSOs and TSOs



Be compliant and ready for the future.

- In line with international standards and recommendations (e.g. IEEE, CIGRE)
- Providing calculated ratings to regulating entities, to comply with regional requirements

Get in contact.

To learn more about the capabilities of Siemens Gridscale X Dynamic Line Rating contact us at Gridscale-X-DLR-Info.si@siemens.com.

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