



NordREG Workshop on Cross Border Capacities

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Transfer capacities and congestion management with Olkiluoto 3

FINGRID

Transfer capacities with Olkiluoto 3 in operation

Olkiluoto 3 affects FI-SE1 transfer capacity from Sweden to Finland (AC)

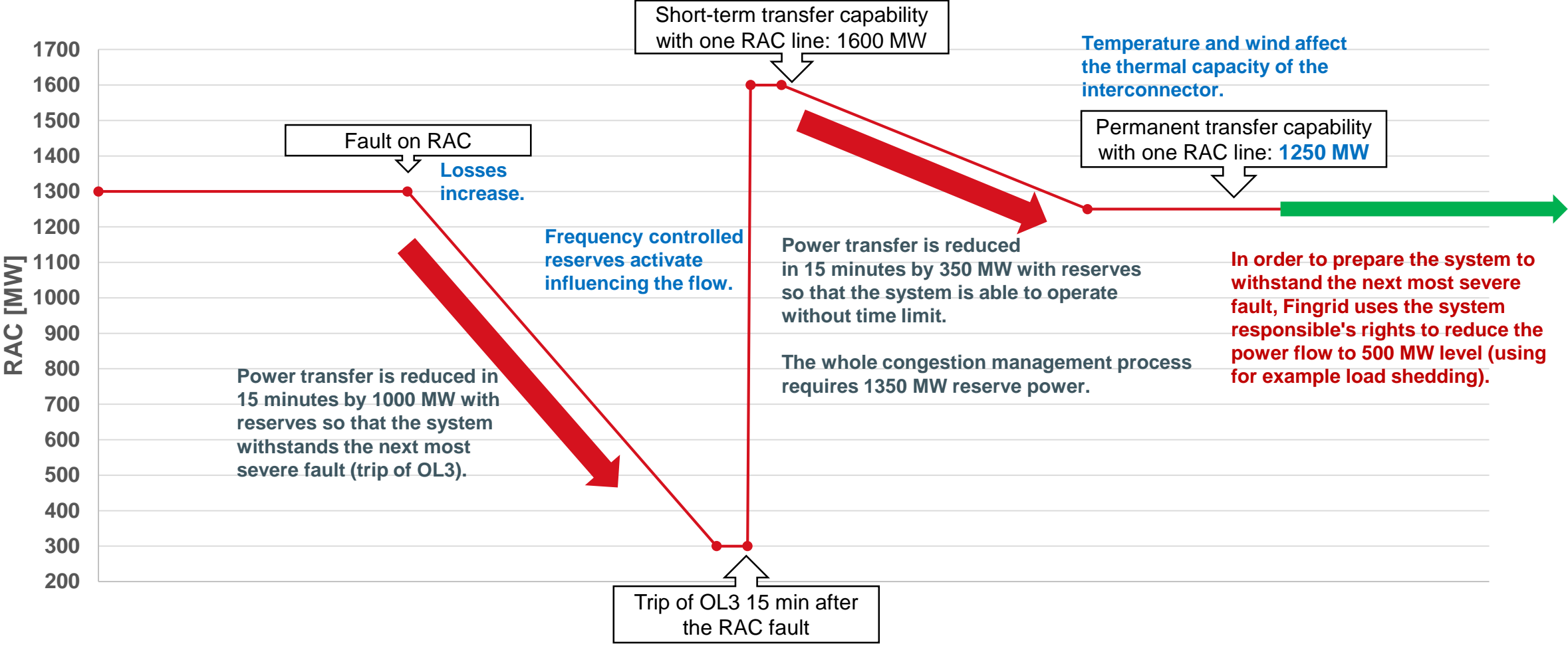
- If OL3 trips, the northern RAC interconnector needs to be able to provide immediately the required reserve power to Finland → affects the flow from Sweden to Finland
- Does not affect the transfer capacity from Finland to Sweden

Olkiluoto 3 does not affect FI-SE3 transfer capacity (HVDC)

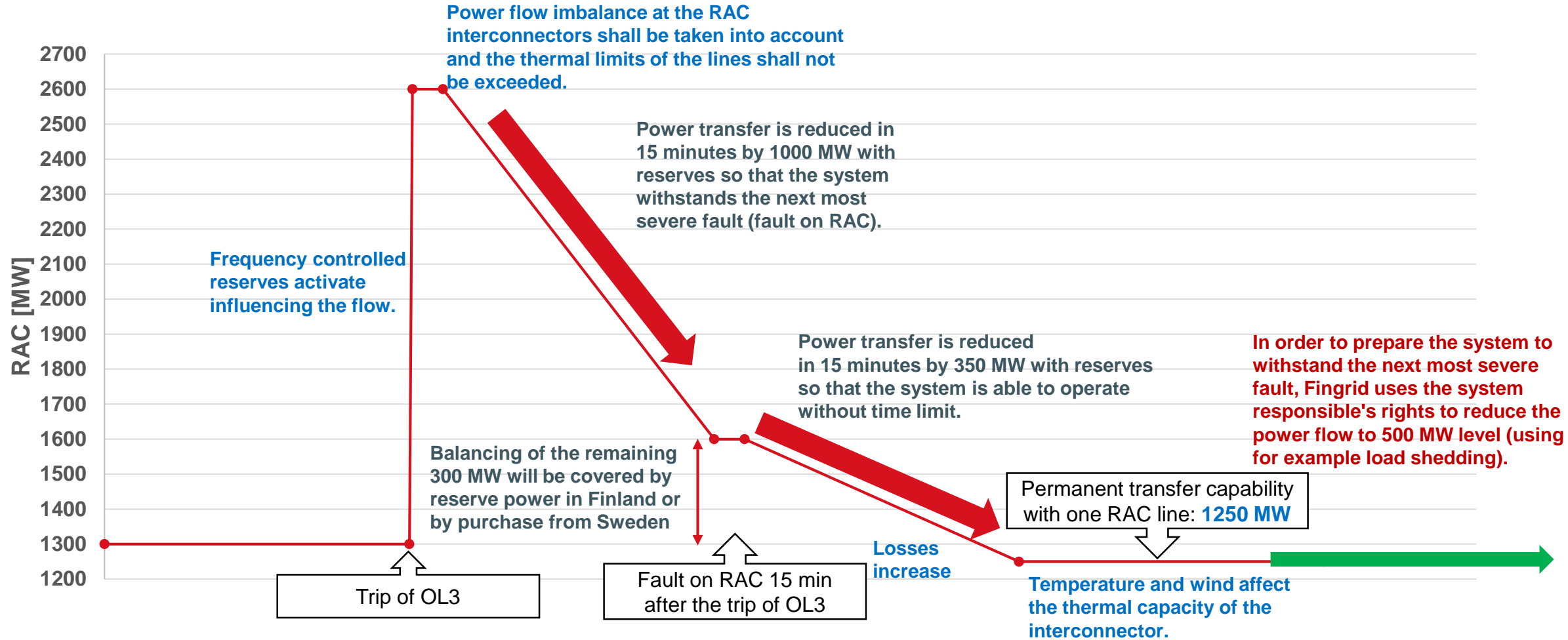


Olkiluoto 3 power	Commercial transfer capacity FI-SE1, northern AC interconnection		Commercial transfer capacity FI-SE3, southern HVDC connection		Olkiluoto 3 system protection scheme, load shedding capacity
	SE1 → FI	FI → SE1	SE3 → FI	FI → SE3	
1000 MW	1500 MW	1100 MW	1200 MW	1200 MW	0 MW
1300 MW	1200 MW	1100 MW	1200 MW	1200 MW	0 MW
1650 MW	1200 MW	1100 MW	1200 MW	1200 MW	350 MW

Permanent fault on RAC followed by trip of OL3

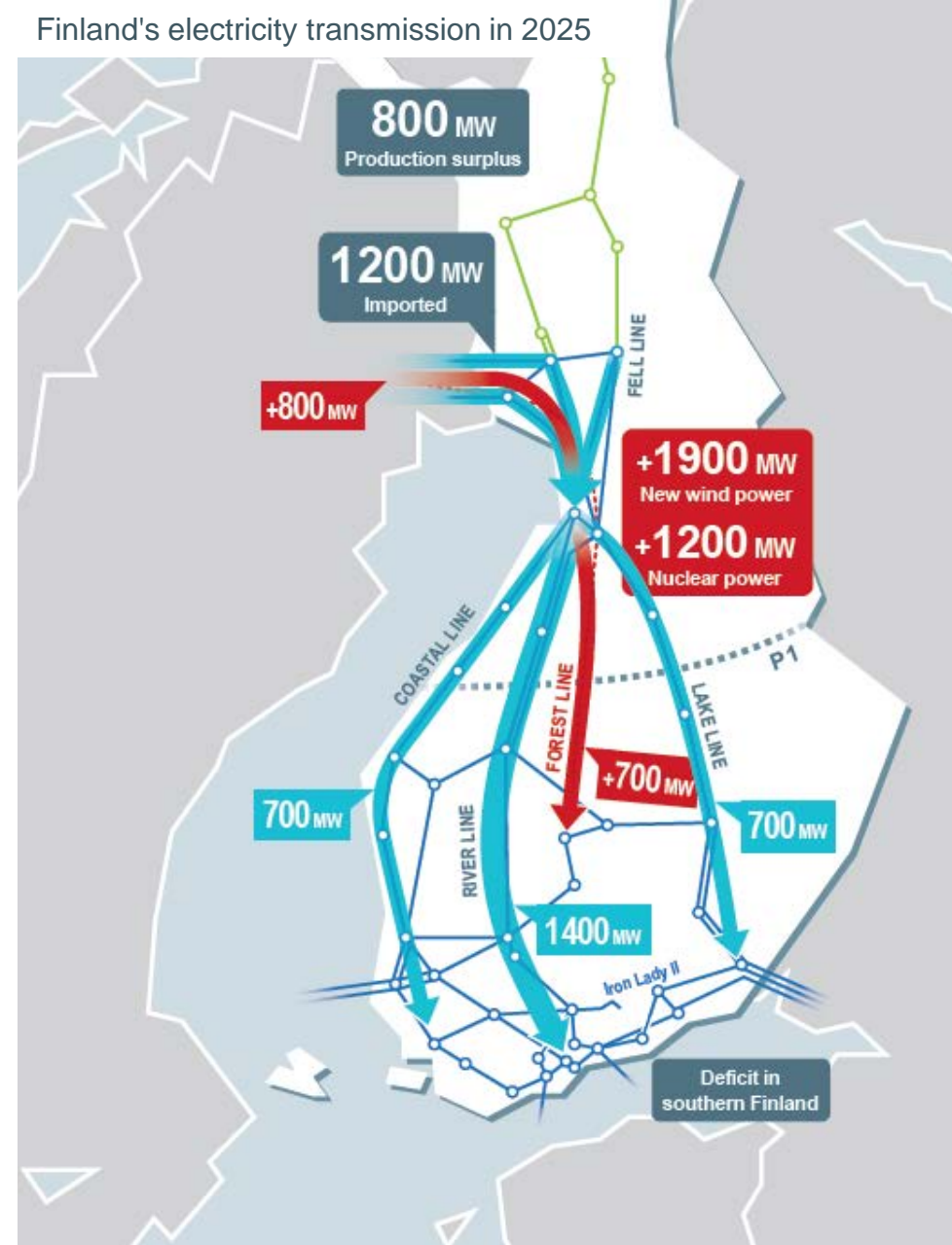


Trip of OL3 followed by permanent fault on RAC



Customer and market needs are the foundation for grid development – no unnecessary investments

- The main grid investment programme is based on a long-term development plan and more detailed regional plans. The plans are compiled in cooperation with customers and the authorities.
- Investments are not optimised on the basis of the regulatory model.
- In the near future, the amount of investments covered by the main grid tariff will correspond to Fingrid's annual depreciations.
- Investments made to promote the electricity market will also be covered by bottleneck income.



Thank you!

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