

# Paris Session 2022



STATCOM is a superior solution in grids with high renewable share

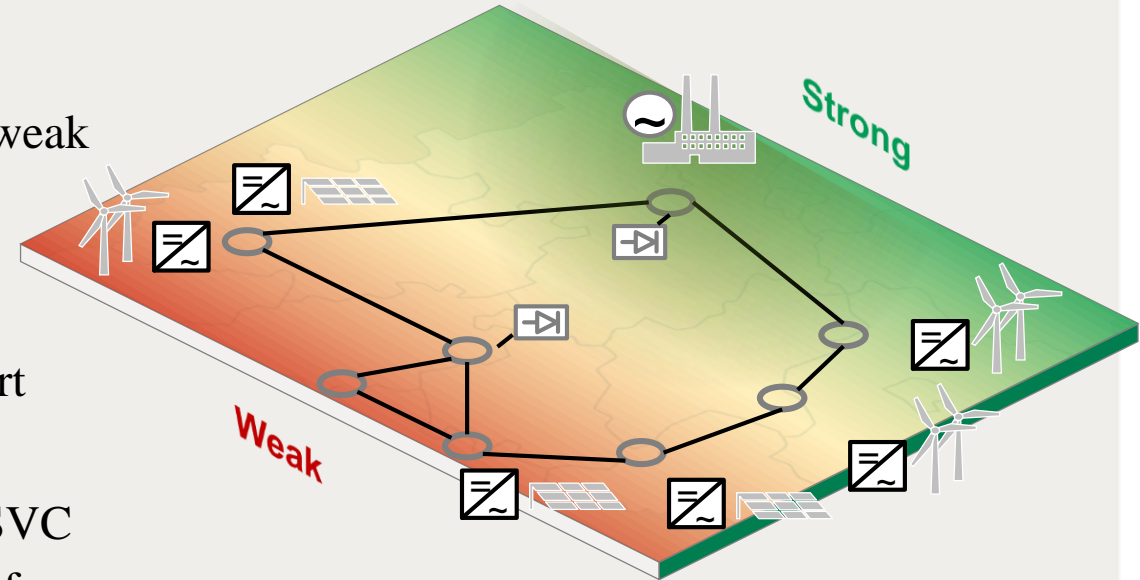
B4 - PS3 -1 SVC & STATCOM Applications  
Question 1

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# STATCOM is a superior solution in grids with high renewable share

- STATCOM technology in general with better performance compared to SVC technology.
- Grid forming functionality of the STATCOM technology is necessary to be future ready and to have a stable operation in weak grids.
- Maintenance: Effort for SVC is higher than for STATCOM technology
  - thyristors & IGBTs have a comparable maintenance effort
  - Additional efforts for SVC to maintain filter banks.
- Availability: Higher availability for STATCOM compared to SVC
  - technical brochure AG B4-04 for SVCs and STATCOMs from 2002 to 2018: higher availability for STATCOM technology over the SVC technology.
  - Siemens Energy's experience shows overall better availability for STATCOM compared to SVC.



Group Discussion Meeting

# Possibility to upgrade SVC to STATCOM technology

- Existing SVC installations can be re-designed with a STATCOM.
- Necessary steps
  - keeping the step-up transformer and high voltage part.
  - replace medium voltage part
- Resulting in a future ready, robust and stable system.