

Main considerations on technology selection for new and refurbishment HVDC Projects

B4_PS1 Q1.3

- What are the main considerations on technology selection for new and refurbishment HVDC projects?

Peter Lundberg Sweden

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- **If one of the following conditions/requirements is on the list of the project conditions/requirement, the VSC HVDC may be the proper choice**

- One of the connected AC network requires black-start function
- One of the connected AC network requires HVDC converter injecting fault current during AC short circuit faults
- One of connected AC network requires AC voltage control/reactive power control for enhancing voltage stability
- Receiving end/inverter side AC network is very weak (e.g., $SCR < 2$)
- Very fast active power change in power level as well as in direction in order to facilitate “reserve” sharing or fast frequency control