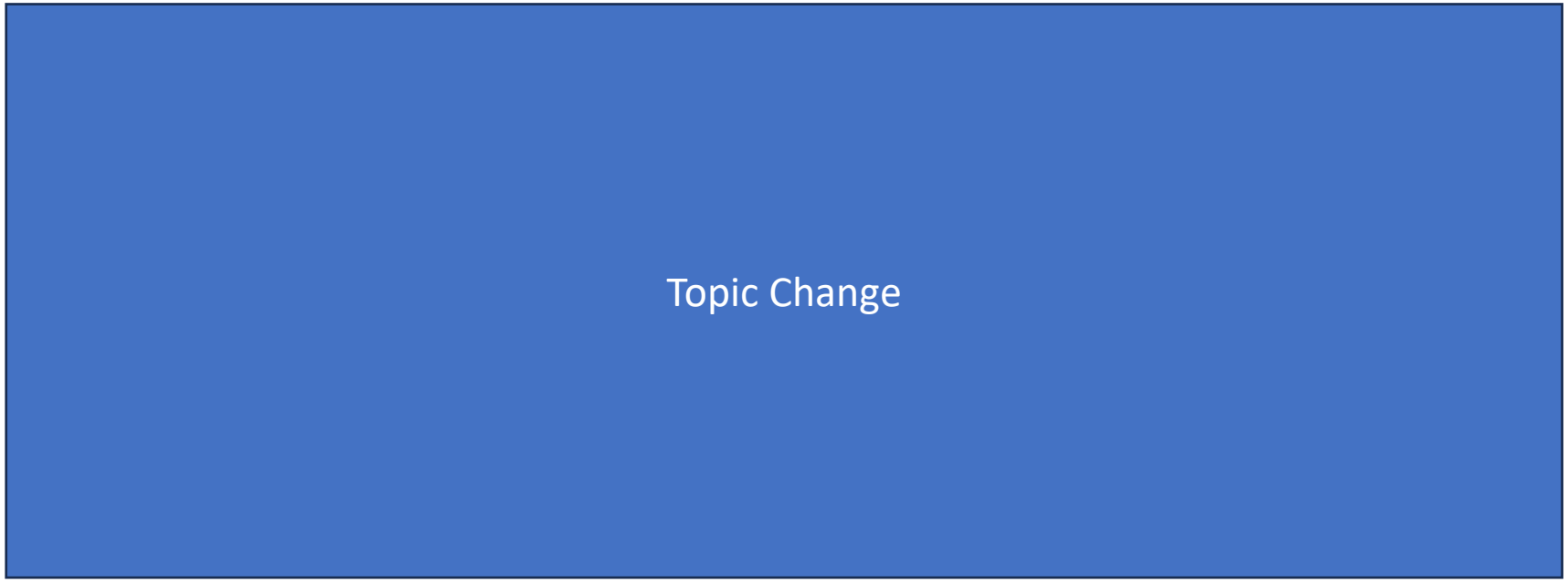
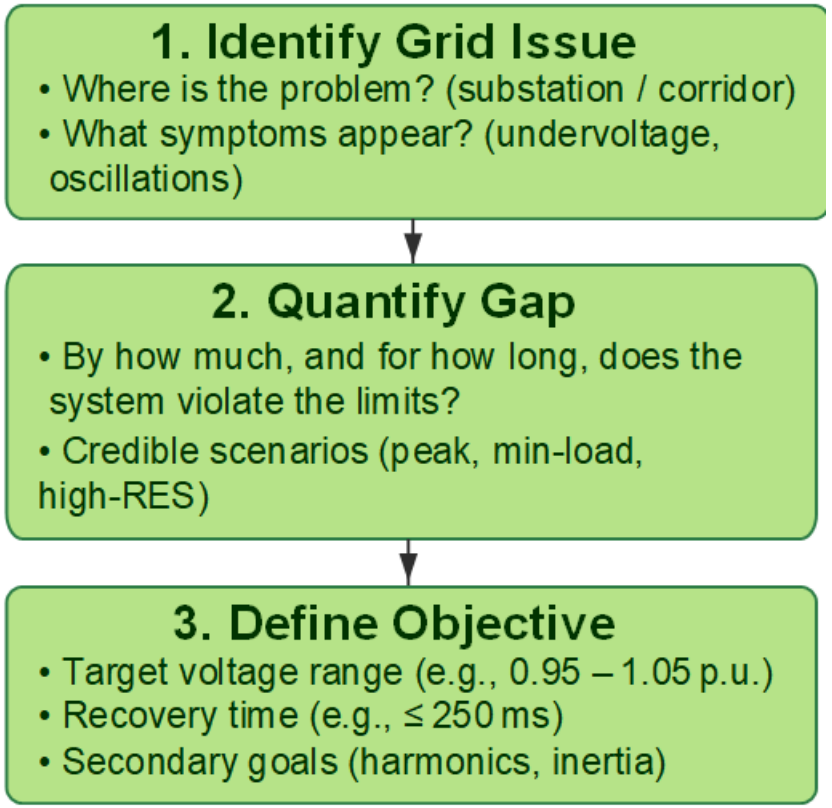
STATCOM Sidebar!



STATCOM and voltage control…

- Process for STATCOM procurement:

(source: Functional Performance requirements for GFM STATCOM – 2025 IEEE PES GM)



Extra Functional STATCOM Requirements:

You decide… do you need:

1. Active harmonic cancellation
2. Redundancy/Automatic failover
3. Power Oscillation damping
4. Degraded Modes
5. Negative Sequence Cancellation
6. Slow reactive power control (dynamic reserve)
7. Stability supervision and gain adjustment
8. Automatic gain setting based on fault level
9. Coordination between multiple STATCOMs
10. Manual VAR control
11. Flicker control
12. Black start / energization support (special ride-through)
13. Grid-forming control

(source: Functional Performance requirements for GFM STATCOM – 2025 IEEE PES GM)

Operational points for STATCOM rating

Hello !

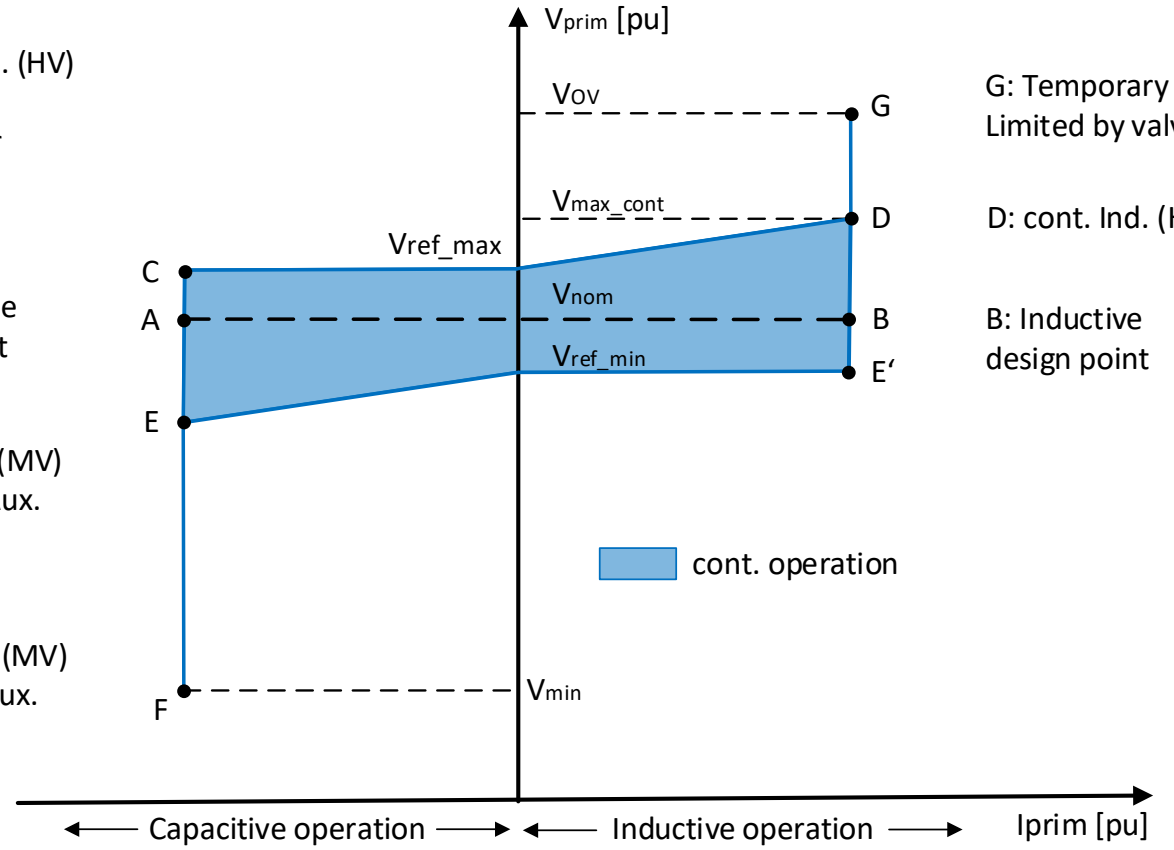
(source: Functional Performance requirements for GFM STATCOM – 2025 IEEE PES GM)

C: cont. Cap. (HV)
Limited by
transformer
(Thermal)

A: Capacitive
design point

E or E‘:
min. Cont. (MV)
Limted by Aux.

F: min. Cap.
short time. (MV)
Limted by Aux.



G: Temporary OV
Limited by valve

D: cont. Ind. (HV)

B: Inductive
design point