SEI - Système Electriques Insulaire

Low variable RES penetration island with key drivers and challenges :

VERY LARGE INFEED LOSSES ARE POSSIBLE

What are we talking about ? → example of French Guiana



- UFLS: f



instantaneous trip is possible (50-80% of

total generation)



Other Solutions

- Impose an inertia requirement to limit to limit the RoCoF values in the operational tools
- Impose an Apparent Power (Sn) requirement to limit the voltage disturbance (under study)
- CBA of synchronous condensers investments
- Grid Forming control of batteries under consideration
- Apply strict regulations to VRES to ensure that they all remain connected during these transients.





Clean energy for EU islands

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high-RES penetration island with key drivers and challenges



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