

Paris Session 2022



Opportunities in India for Peak Load Stations with Nation's commitment of massive penetration of Renewables in the Generation Mix

A1 - ROTATING ELECTRICAL MACHINES
PS1 - GENERATION MIX OF THE FUTURE

Question 1.2:

A challenge of ever increasing renewables penetration is the impact on the existing national grids systems and their stability. The need for market based payments for ancillary services such as inertia and MVAr support is clear, but how else and what can the industry do with current available technologies to support this transition?

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Group Discussion Meeting

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1

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Reply

- After integration of Large volume of solar and Wind generation in Grid, the inertia of grid will decrease and voltage issue in large RE pocket will increase.
- In the transition of phase modification of outdated thermal plants in synchronous condenser mode operation may be thought off.
- The commissioning of Hydro plant which are in pipeline or in planning stage may be speed UP.
- As mentioned in paper also, with some modification the non peak generators like Hydro and Gas may be kept on bar in synchronous condensor mode of operation.