

NKOSITHANDILEB SOLAR

Automatic cycle power generation in containers



Overview

What is automatic generation control?

Automatic generation control allows signal to all the generators of a specified area for regulating real power output which changes due to system frequency variation.

Should synchronous generators be used in control areas?

Synchronize and strongly coupled synchronous generators should be employed in control areas. Frequency deviation and power deviation caused in control area due to power imbalance should be zero. A major goal in the development of LFC is regulating the generation and crossline power between multiarea systems.

Is bio-diesel based synchronous generator a power source of microgrid?

Bio-diesel based synchronous generator is considered as a power source of microgrid whose frequency deviation is minimized using proposed control logic. Author depicts that the control logic acts faster than the existing governor controls and performance has been compared.

How EV incorporated grid for AGC?

Fig. 19. EV incorporated Grid for AGC . Regulation capacity of EV is evaluated on the basis of maximum vehicle to grid power and its present power and it will be consign the regulation task among EVs. Simulation result shows that efficiency of proposed approach as it reduces frequency deviation and tie line power .

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