



**Grid Controller of India Limited (Grid-India)**  
**National Load Despatch Centre (NLDC), New Delhi**

संदर्भ: NLDC/SO/GFM/

दिनांक: 31<sup>st</sup> Dec 2025

To,

**All the Stakeholders**

**विषय:** Discussion Paper on Grid-Forming Technology and Possible Applications in the Indian Power System – Inputs and comments reg.

महोदय,

A discussion paper titled "**Grid-Forming Technology and Possible Applications in the Indian Power System**" has been prepared by GRID-INDIA and is attached herewith. The paper presents a review of grid-forming (GFM) technology vis-à-vis the currently prevalent grid-following (GFL) technology. The inferences in the paper are based on literature review, detailed simulation studies on the all-India power system, and global deployment experience.

Comments and inputs are invited from stakeholders and domain experts on the observations and analysis presented in this paper by **28<sup>th</sup> February 2026**. The comments may be shared at [nldcreliability@grid-india.in](mailto:nldcreliability@grid-india.in).

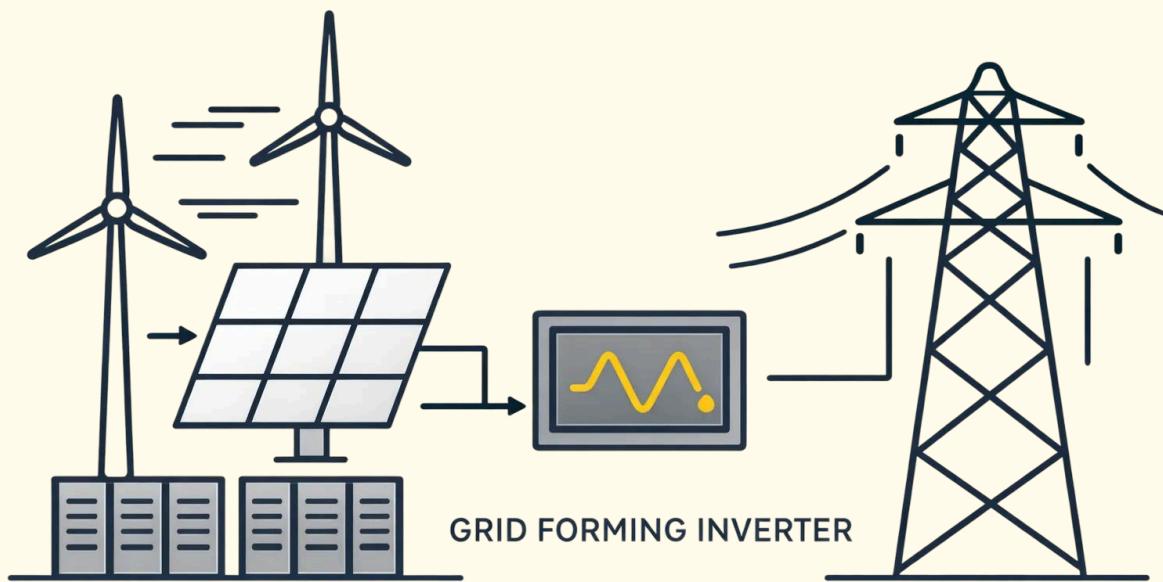
सध्यवाद,

भवदीय,  
  
(एस उषा)  
कार्यपालक निदेशक (रा०भा०प्र०क०)

**Enclosure:** As above

## Discussion Paper

# GRID FORMING TECHNOLOGY and Possible Applications in Indian Power System



DECEMBER 2025

GRID CONTROLLER OF INDIA LTD.

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