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(54) Title of the invention : ADAPTIVE PHASOR MEASUREMENT UNITS WITH INTELLIGENT CONTROL FOR ENHANCED POWER GRID SYNCHRONIZATION

<p>(51) International classification :H04W0052020000, G01R0031080000, G06Q0050060000, G01R0019250000, H04W0052360000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR COLLEGE OF ENGINEERING & TECHNOLOGY Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA, 501401 Hyderabad ----- ----- 2)CMR TECHNICAL CAMPUS 3)CMR INSTITUTE OF TECHNOLOGY Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr G Devadasu Address of Applicant :Professor, Electrical &Electronic Engineering, CMR College of Engineering & Technology Hyderabad ----- ----- 2)Dr S Muthubalaji Address of Applicant :Professor, Electrical &Electronic Engineering, CMR College of Engineering & Technology Hyderabad ----- ----- 3)Dr G Srinivasa Rao Address of Applicant :Associate Professor, Electrical & Electronic Engineering, CMR College of Engineering & Technology Hyderabad ---- ----- 4)Dr S Srinivasan Address of Applicant :Associate Professor, Electrical & Electronic Engineering, CMR College of Engineering & Technology Hyderabad ---- ----- 5)Dr Venkateswarlunayak Address of Applicant :Associate Professor, Electronics & Communication Engineering, CMR Technical Campus Hyderabad ----- ----- 6)P Kranthi Rathan Address of Applicant :Assistant Professor, Electronics & Communication Engineering, CMR Technical Campus Hyderabad ----- ----- 7)M. Venkatesham Address of Applicant :Assistant Professor, Electrical & Electronics Engineering, CMR Institute of Technology, Hyderabad Hyderabad ----- ----- 8)P. Rajashekhar Address of Applicant :Assistant Professor, Electrical & Electronics Engineering, CMR Institute of Technology, Hyderabad Hyderabad ----- -----</p>
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(57) Abstract :
ADAPTIVE PHASOR MEASUREMENT UNITS WITH INTELLIGENT CONTROL FOR ENHANCED POWER GRID SYNCHRONIZATION
ABSTRACT The present invention discloses a power grid synchronization system and a method for enhancing power grid synchronization. The system comprises Adaptive Phasor Measurement Units (PMUs) distributed across the power grid, equipped with sensors for real-time measurement of electrical parameters. A central processing unit receives and processes phasor data from the PMUs, while an adaptive control module within each PMU dynamically adjusts measurement parameters based on real-time grid conditions. The method involves receiving real-time phasor data from grid-associated sensors, analyzing the data to determine grid conditions, and dynamically adjusting measurement parameters of a Phasor Measurement Unit (PMU) accordingly. This invention enables improved synchronization by adaptively responding to dynamic grid conditions, ensuring enhanced reliability and efficiency in power grid operations.

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