



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)



COIMBATORE-35

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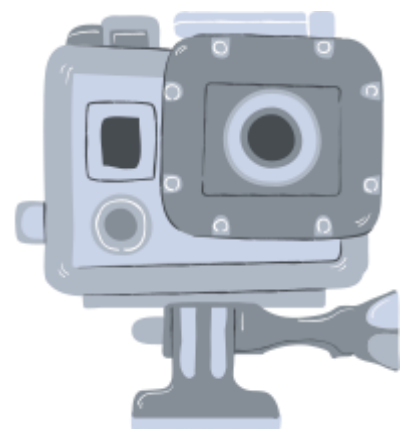
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME: 19EEE308/ SMART GRID

III YEAR / VI SEMESTER

Unit 1 –OVERVIEW OF SMART GRID

Topic : SELF HEALING GRID



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CONCEPT OF SELF HEALING GRID



- A self-healing grid is expected to respond to threats, material failures, and other destabilizing influences by preventing or containing the spread of disturbances. This requires the following capabilities:
 - ☐ Timely recognition of impending problems
 - ☐ Redeployment of resources to minimize adverse impacts
 - ☐ A fast and coordinated response to evolving disturbances
 - ☐ Minimization of loss of service under any circumstances
 - ☐ Minimization of time to reconfigure and restore service



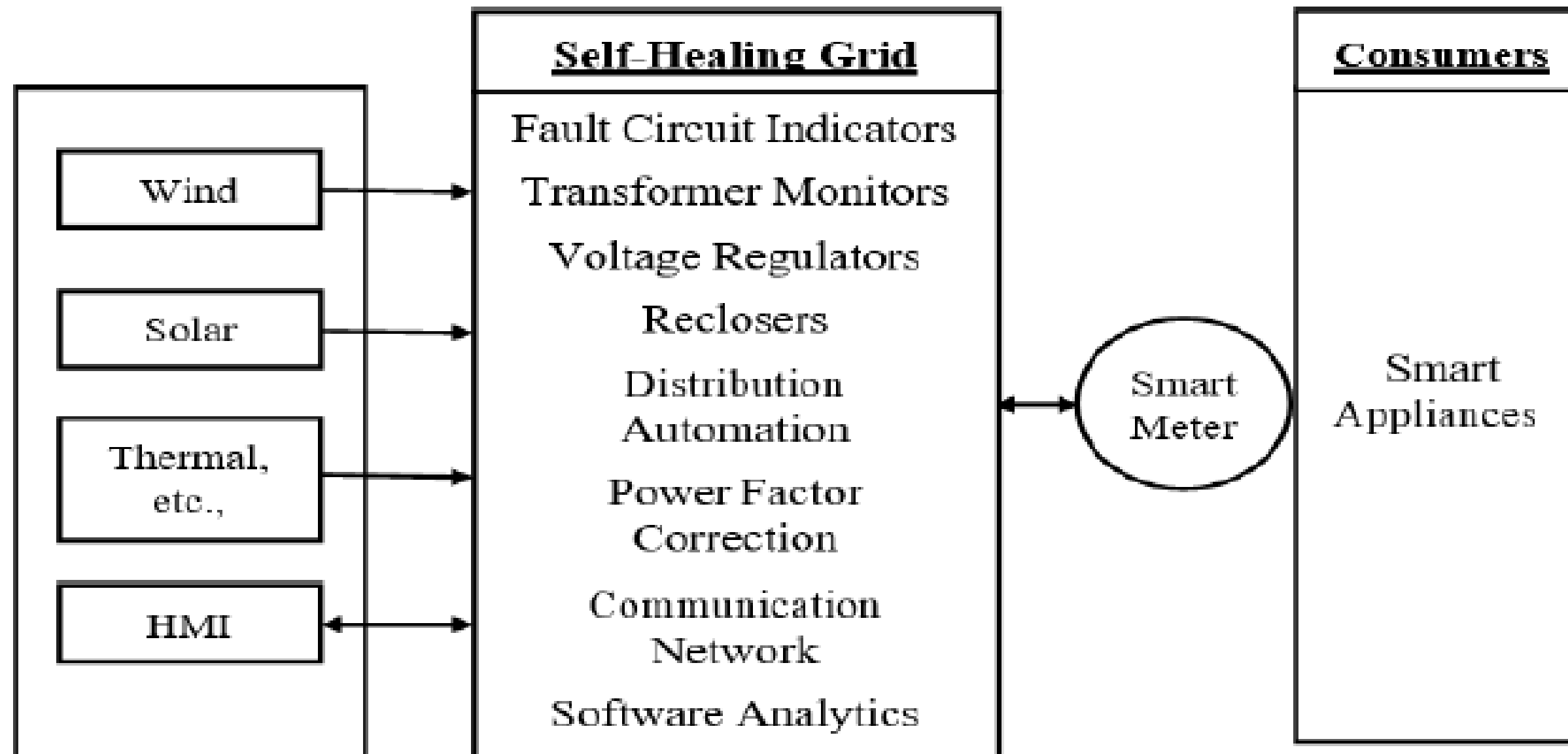
CONCEPT OF SELF HEALING GRID



- The Self-Healing Grid is a system comprised of sensors, automated controls, and advanced software that utilizes real-time distribution data to detect and isolate faults and to reconfigure the distribution network to minimize the customers impacted.
- One of the main goals of a Self-Healing Grid is to improve system reliability



BLOCK DIAGRAM OF SELF HEALING GRID





Thank You!

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05/05