



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
An Autonomous Institution



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

19EET304/ IOT FOR ELECTRICAL SCIENCES

III YEAR VI SEM

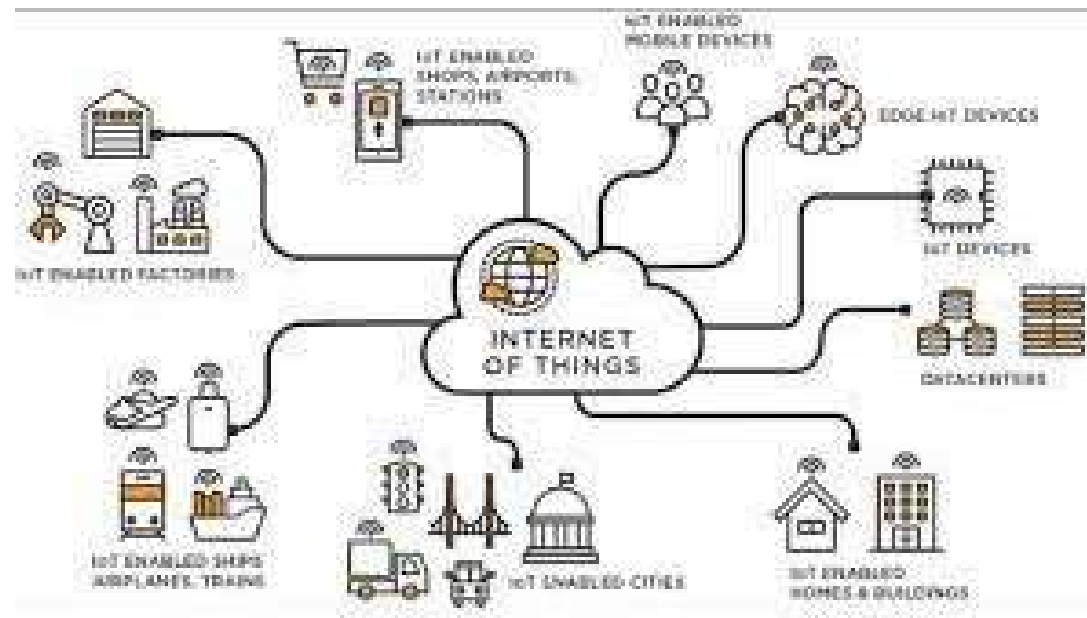
UNIT 5 – IOT IMPLEMENTATIONS

TOPIC 1 – Smart Grid & IoT



Consider an example,

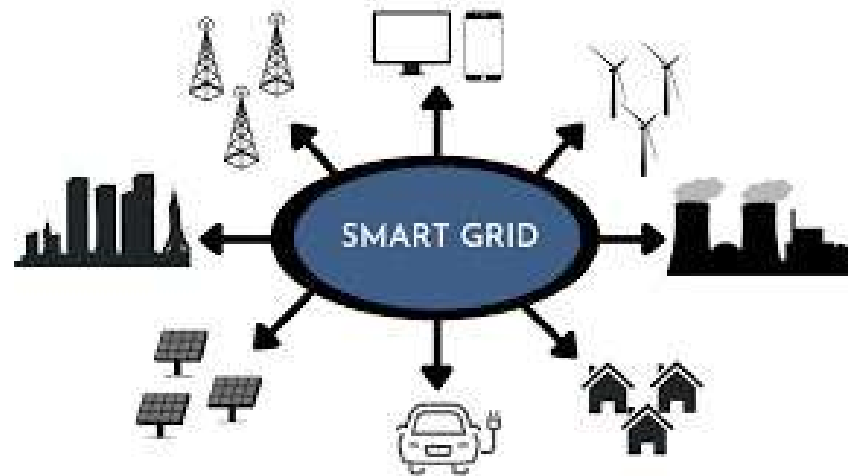
Explain the process





What is a smart grid in Internet of Things?

Smart grids are electrical grids that involve the same transmission lines, transformers, and substations as a traditional power grid. What sets them apart is that Smart Grids involve IoT devices that can communicate with each other and with the consumers.





Smart Grid in Action





ASSESSMENT - 1

How its working



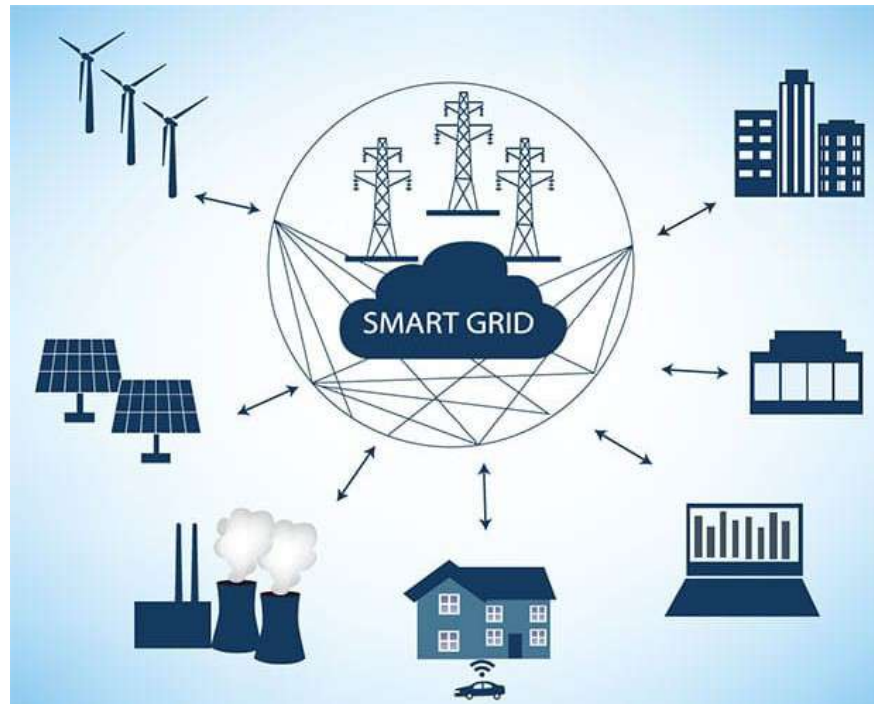


Smart Cities Are Adopting Smart Grid Technology





How Smart Cities Are Adopting Smart Grid Technology





Applications

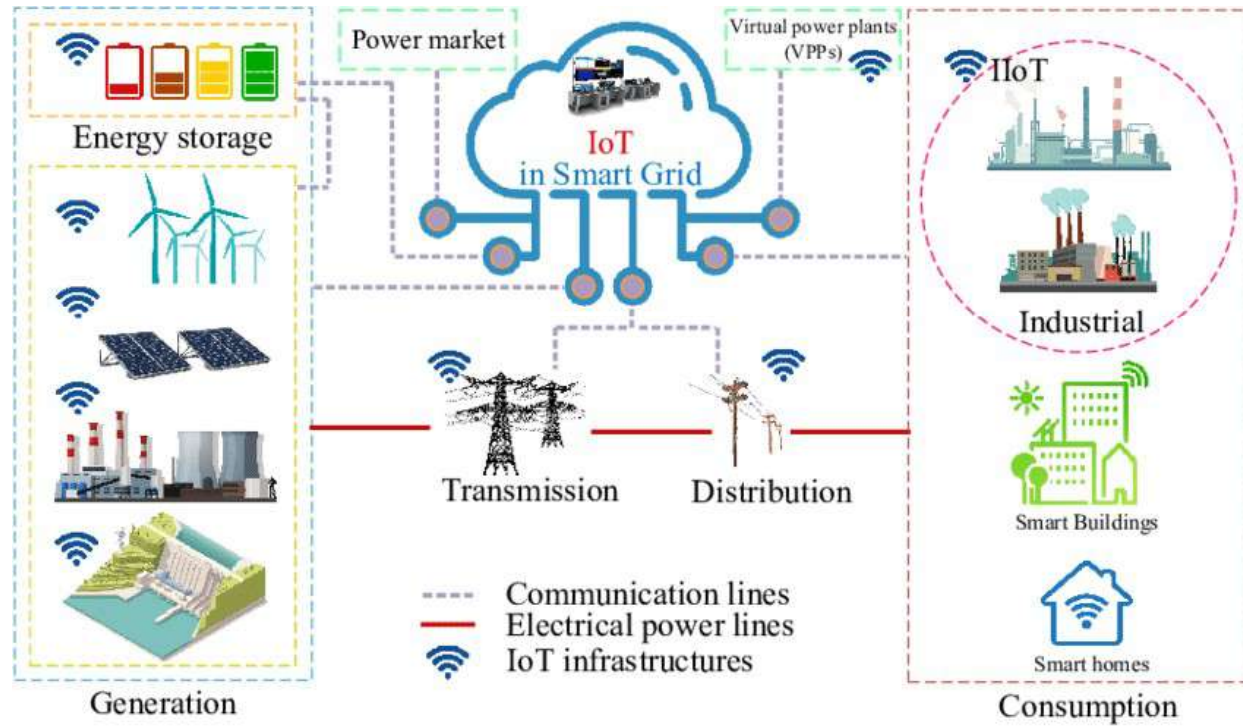


- Street lighting
- Transmission lines
- Substations
- Cogeneration
- Outage sensors
- Early detection (e.g., power disturbances due to earthquakes and extreme weather)



ASSESSMENT – 2

Find the Process





References

- <https://www.digi.com/blog/post/what-is-the-smart-grid-and-how-enabled-by-iot>
- <https://www.iiot-world.com/industrial-iot/connected-industry/the-role-of-iiot-in-smart-grid-technology-and-applications/#:~:text=Smart%20grids%20are%20electrical%20grids,other%20and%20with%20the%20consumers.>
- <https://www.telit.com/blog/iiot-smart-grid-benefits/>



Thank You