



REPORT ON “IOT Based Power Grid Assets and Life Cycle Management” – SEMINAR on 05.04.2024

Date: 06.04.2024

Department of Electrical and Electronics Engineering, Aarupadai Institute of Technology organized a seminar “IOT Based Power Grid Assets and Life Cycle Management” on 05.04.2024. The resource person for the event was Mr. Sahaya Louis, Founding Director, Delta Solar, Oman. The event started with the welcome address and the introduction of the resource person. The integration of Internet of Things (IoT) technologies in power grid infrastructure has revolutionized asset management practices. By leveraging IoT, utilities can monitor, analyze, and optimize the performance of power grid assets throughout their life cycle, leading to improved reliability, efficiency, and sustainability. The program aimed to make the students understand how IoT-based solutions can enhance the monitoring and maintenance of power grid assets, leading to improved reliability and efficiency.

The speaker concentrated on Asset Monitoring and Condition-Based Maintenance. IoT sensors deployed across power grid assets enable real-time monitoring of operating conditions. This data is utilized to implement condition-based maintenance strategies, predicting potential failures and scheduling maintenance proactively. By minimizing downtime and extending asset lifespan, utilities can optimize maintenance costs and enhance grid reliability.

The students understood the adoption of IoT-based solutions for power grid asset management that offers significant benefits, including improved reliability, efficiency, and sustainability. The students interacted with the resource person clarifying their queries. By leveraging IoT technologies, utilities can enhance asset monitoring, implement predictive maintenance strategies, optimize energy usage, ensure remote asset management, strengthen security, and make data-driven decisions. This comprehensive approach to life cycle management enables utilities to achieve a more resilient, efficient, and intelligent power grid ecosystem.



Cordially invites you all for the

Seminar on

IOT Based Power Grid Assets and Life Cycle Management

📅 05.04.2024 ⌚ 01.00 p.m 📍 TBT105, Smart Classroom

Resource Person

Mr. Sahaya Louis
Managing Director
Delta Star Power Project LLC
Chennai, India.



Organized by : Department of Electrical and Electronics Engineering



What is Problem statement of todays Grid

- Big Data of Customers and Energy Accounting and Revenue Management
- Costly Assets and its Life Cycle Managements
- Instead of Firm Centralized Generations equal even more Percentage of In Firm Distributed Renewable Generations from SOLAR /WIND Energy
- Operation Stability and Cost of Operations
- Interoperable with Interstate , Inter Country and Inter Cobnet Grids
- Power Quality issues

GPS MAP CAMERA

M54H+HM8 Tamil Nadu IN

Latitude 12.6566961

Longitude 80.1795253

Date: 05 Apr 2024

Time: 10:05 AM

