

Electrical Energy Management System (EEMS)

In a move to Improve Energy Efficiency on Indian Railways Concerted efforts have been made towards Energy Conservation measures. From quite some times, need was felt for Application to monitor / capture Energy Data and provide analytics to Railway officials of Division, Zonal Headquarter and Railway Board. Electrical Energy Management System (EEMS) for “Dissemination of information on Energy Efficiency Technologies and Measures” has been developed by CRIS to cater the needs of Energy Monitoring under frame work of UNDP through GEF funding as part of Improving Energy Efficiency in Indian Railway System.

Electrical Energy Management System (EEMS) has been developed & implemented in five projects as given below:-

SN	Year	Project Deliverables	Achievement
1	2014	Website for Indian Railways Energy Efficiency Initiatives and EEMS Application (www.railsaver.gov.in)	The RAILSAYER website and web application was Go-Live and inaugurated by Member Traction of Railways on 15 th Apr 2014
2	2015	Website for Indian Railways Green Energy Initiatives (www.irgreenri.gov.in)	“IRGREENRI” website has been inaugurated by Hon’ble Minister of Railways, on 06 th Nov 2015.
3	2016	RAILSAVER’ Mobile APP	RAILSAVER Mobile APP has been inaugurated by Hon’ble Minister of Railways on 3 rd Nov 2016 at New Delhi.
4	2017	Meter Data Acquisition System.	Meter Data Acquisition System’ Projects has been inaugurated by Member Traction of Railways in presence of Country Director/UNDP on 30 th Jan 2017.
5	2017	Asset Management Application for Sub Stations assets of General Services	Asset Management Application for Sub Stations assets of General Services has been inaugurated by Member Traction of Railways in presence of Country Director/UNDP on 30 th Jan 2017.

Objective:

1. Quick and efficient retrieval of Energy Consumption Data of Sub Stations.
2. To analyze Energy Data through Mobile Devices.
3. Availability of Reports & Dashboards for decision making.
4. To monitor the Energy Consumption Trends.
5. To Capture Sub Stations Asset Master and Inspection Details

Features :

1. User friendly, 24 X 7, web based application with Centralized Architecture at CRIS accessible through internet
2. It has n-tier J2EE architecture using bootstrap frame work supporting open standards
3. Comprehensive data validations during capturing.
4. Highly customizable and scalable ; reduces deployment time
5. Mobile App for Android and iOS platforms

Integration :

1. CMS for Energy Regeneration data of Locos

Benefits :

1. Representation of Data in Graphical and Tabular form to aid data analysis at a strategic level.
2. Energy Consumption Trend Monitoring and Decision Support System.
3. Information sharing through Message center, policy circulars, new initiatives etc.
4. Facility to generate customized reports and various statistical Reports.
5. All the reports are available in digitized format leading to paperless working.
6. Alerts for various maintenance schedule and data entry status.
7. Common application interface for viewing the Application/reports/dashboards etc. and also enabling customization and role based access of reports.