

EnergySoft



Engineer -in- Chief(Electricity) -cum- Principal Chief Electrical Inspector, SDA,Odisha

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Departments

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Current News

Energy Conservation Awareness Campaign at Baliyatra 2011 Cuttack

Mission & Vision

To develop mission, goals and to actuate them for the Department of Energy, Govt. of Orissa. This organization aims at planning, developing, managing and advising the Govt. scheme under Department of Energy.

Establish policies necessary for effective and efficient implementation of the Government's programme.

Establish a system to periodically review organizational performance.

Establish and continually review systems to develop, improve and maintain employees moral.

Delegate authority and assign responsibility to the CEI(T&D) and CE(P)-cum-CEI(G).

Energy conservation is achieved through efficient energy use, in which case energy use is decreased while achieving a similar outcome, or by reduced consumption of energy services. Energy conservation may result in increase of financial capital, environmental value. National security, personal security, and human comfort. Individuals and organizations that are direct consumers of energy may want to conserve energy in order to reduce energy costs and promote economic security. Industrial and commercial users may want to increase efficiency and thus maximize profit. Electrical energy conservation is an important element of energy policy.

N.B:- This site is under testing and for internal use of EIC employees only. for any feedback or suggestion please contact sdaorissa@nic.in

Events



Slogans

Take a small step ,save energy ,it means a lot to future

Developed BY NIC, Orissa State Centre

Developing Internet Platform
& Integrated suite of e-Governance
applications for office of the

EIC (Electricity)-cum-Principal Chief Electrical Inspector (PCEI), SDA
Odisha



Background

Equipping O/O EIC (Electricity) -cum-PCEI, Odisha with appropriate ICT Tools

Being the epicenter of advisory to State Government on matter relating to policy, implementation and monitoring of electricity related activities in the State, the O/O EIC (Electricity)-cum-PCEI, Odisha is entrusted with the task of handling Energy Conservation, Electrical Inspection of installations under IE rules, implementation of REP (Rural Electrification Programmes) in the state as nodal agency, Electricity Duty Collection from Generators as well as T&D, Issue / Renewal of licenses and work permits, Inspection & Testing of all installations of MV, HT, EHT class all over the state etc.

The office of EIC (Electricity)-cum-PCEI, Odisha, has undergone considerable structural and functional changes during the period with the ever increasing service delivery expectations of a common citizen. Engineer-In-Chief as the Administrative head finds it very difficult to get timely and accurate information for the decision making from the huge data generated in the state over the years. Chief Engineers or functional heads find it difficult to compile, segregate various inputs with accuracy & up-to-date.

Various stakeholders / public also find it very difficult to get the timely information about License details, Laboratory Testing results, ED Arrears, Electrical Inspection reports etc.

Thus the O/O EIC (Electricity)-cum-PCEI, Odisha needs suitable IT tools to become efficient, responsive and transparent to meet its obligation of providing natural justice to its denizens with facilitation of various services on electronic mode.

Objective

Enabling efficient delivery of government services

The main objective of **EnergySoft** is to radically improve the way EIC-cum-PCEI office works and provides services to the citizens. This entails redesigning of the existing processes and delivery mechanisms, backend computerisation of various sections, to enable efficient delivery of government services.

The programme is aimed at making all services more accessible to the departmental officers / citizens.

With the total computerisation of the EIC-cum-PCEI office, people would be able to track the status of a licence or about Energy Conservation methods, know about the Energy auditors etc. from anywhere in the world.

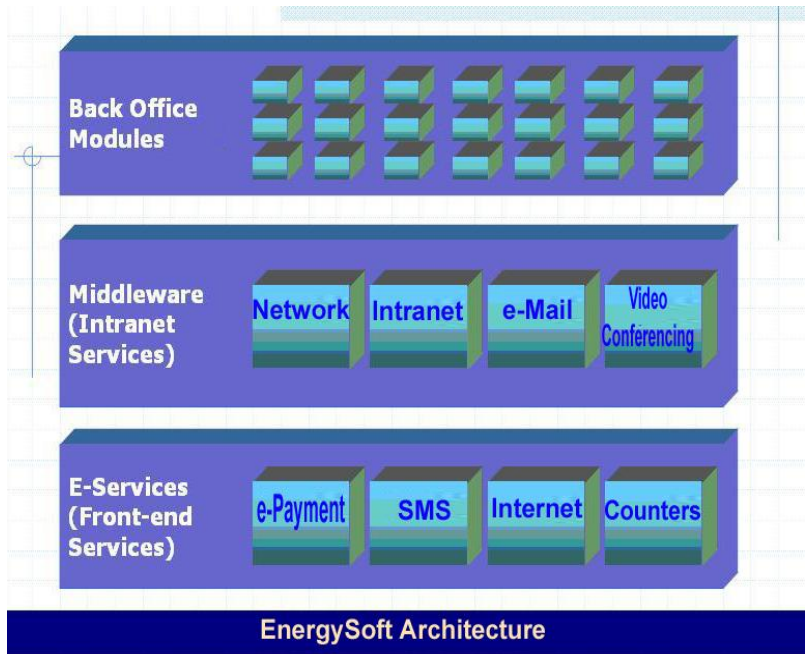
Transparent administration and service delivery, Citizen Access through Internet etc. are the focus area of the project.

EnergySoft – the Integrated Model

EnergySoft is the solution to cater to the needs of automation of various functionalities of O/O EIC-cum-PCEI, Odisha.

It is a suite of applications based on an integrated solution architecture covering seven major functional areas and activities of the office. The product of NIC is well tested and accepted by the stakeholders.

Being a web enabled solution built on industry standard software technologies and best practices, it envisages making the already developed modules to be fully functional at State Hqr as well as field offices at first and later other modules can be taken up.



EnergySoft Architecture

- **Back Office layer** is the foundation comprising of the basic functional modules to which the Engineers of O/O EIC-cum-PCEI will access and carry out the backend operations. Engineers at filed offices can access the same over internet.
- **Middle layer** is the Intranet Services layer which offers lot of collaboration services and tools like E-Mail, Video Conferencing, File sharing, Messaging, Chat over network etc. are few worth mentioning. The backbone of 2Mbps Leased Line connectivity has made it faster & reliable.
- **E-Services layer** is the front-end layer of EnergySoft which is planned to be developed in next phase. It is envisioned to interact with citizens and offer services to the citizens. The services can be offered over SMS, Internet (web portal) and front-end counters etc. e-Payment gateway can be integrated for online financial transactions.



TECHNOLOGY USED

- Visual Studio 2005 with Dot Net Framework 2.0
- Sqlserver 2005 Database - Stored Procedure used for faster data access
- Ajax tool kit and Ajax coding for better interaction with Software Interface
- Crystal report as Reporting Tool
- Use of jQuery for Various effects Like Menu and Photo Gallery
- Encrypted Login ID and Password with Salted Hash Technique for Security
- Role Based Authentication and authorization of access of resource



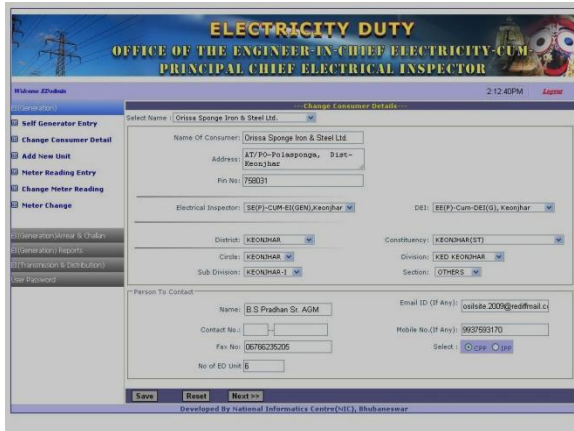
Simplifying Governance

National Informatics Centre
Government of India

Odisha State Centre, Unit-4, Bhubaneswar-1

O/O EIC(Electricity)-cum-PCEI
Government of Odisha

Bhubaneswar



Electricity Duty (ED) Monitoring System

ED collection for Self Generators as well as Transmission and Distribution Companies

It creates the consumer base and brings transparency facilitating monitoring of collection of ED in the state.

Deliverables

- List of consumers
- Monthly meter reading with generation of bills
- Pending Arrear List
- Ledger Maintenance (With interest calculations)
- Challan details with verifications

Features Implemented

- Calculation of Multiplication Factor(MF)
- Full or Part Meter reading
- Archive information about Change of Meters
- Handling of Exemption and Export Grant
- Automatic Calculation of Export unit by Fractional Method
- ED Arrear Handling
- Automatic Arrear and day wise Interest Calculation
- Handling Colony ED for IPP

Future Enhancement

- Integration of Payment gateway to receive online payment from Self Generators and Transmission and Distribution companies.
- Automatic alert through Email / SMS for payment of Electricity Duty for the month and arrear if any.
- Online registration of Stakeholders, Enabling access after approval by EI, Online meter reading entry, online calculation of ED for payment, online

Objective

Collection of ED from following levels is to be monitored

- ED from different category of consumers being collected through distribution companies on monthly basis.
- ED collections from Captive Generation Plants / Generators being carried out on self-declaration / meter reading submitted by the respective units.
- ED levied on auxiliary consumption of HT/ EHT substations.



Standard Testing Laboratory (STL)

Monitoring status of Equipments / Oil tested at STL office as well as at fields

Standard testing laboratory at Bhubaneswar conducts all types of tests certification as a referral laboratory. Prescribed testing fees are collected. The entire process has been mapped & automated.

Deliverables

- Calculation of Testing Charges
- Generation of acknowledgement slip
- Listing of equipment received for Testing
- Fees Collection
- Challan Verifications
- Queue Generation

Features Implemented

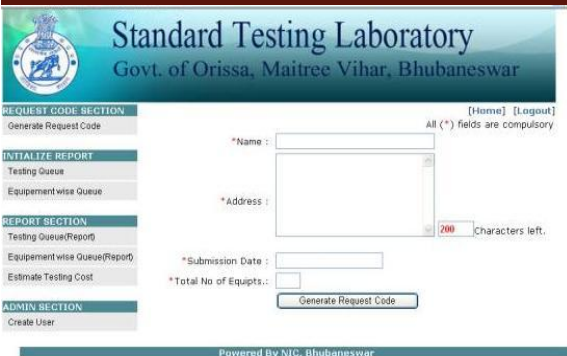
- Request Code Generation
- Equipment Details Entry
- Oil testing Parameter Entry
- Field Testing Equipment
- Testing Queue Generation
- Acknowledgement Slip Generation
- Testing Fee Calculation
- Amount Collection report

Future Enhancement

- Standardization of testing reports.
- E-Payment of testing fees.
- Online submission of testing application with list of equipments and intimation of fees to be paid
- Equipment's testing status online
- Generation of Cash book, Daily Collection Register etc.

Infrastructure Development

- 47 Desktop Systems - Intel core 2 Duo with 2 GB RAM
- 2 Xeon Servers with 4GB RAM
- 43 Printers
- 46 UPS (offline)
- 3 UPS (online)
- 31 Laptops with 3 yrs on-site Comprehensive warranty
- 2 Network Printers (To enable sharing by all officials)
- Antivirus software free update license Certificate valid for Five years
- LCD Projector for Conference Room



Electrical Inspection
Govt. of Orissa.

Welcome Mr./Mrs. Ranjan Kumar Naik Home | Signout |

Consumer Name : M/S. Vedanta Aluminium Ltd.

Inspection Type	Insp No	Year	Report	Equip	Letter
PERIODIC	PER/2/SIGEN000003/19/2011-2012	2011	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Design And Developed By NIC,Bhubaneswar

Electrical Inspection (EI) Monitoring System

To monitor inspection status for Initial / Tatkal / Annual Inspections.

Deliverables

- List of Consumers applied for Inspection
- Fees Collection details
- Drawing approval details
- Initial / Tatkal / Annual Inspection / Re-Inspection Report
- Generation of Letter to Officers with attached copy and memo no
- Generation of Report of Inspected equipment list with each calculated
- Amount of inspection fee and total inspection fee unit wise

Features Implemented

- Integrated with ED module for interoperability of information
- Online Challan Verification through Treasury Portal
- Automatic calculation of Testing Fee based on various criteria
- Master data created for all Drawings, various defects mapped with the Head

Future Enhancement

- Integration of Payment gateway to receive Inspection Fee online
- Automatic alert through Email / SMS about the status report
- Online application for Inspection
- Online Uploading of various Drawings
- Test Reports online / through e-mail

Process Followed

- All generating units / stations (Captive power plants) install Energy meters/ C.Ts / P.Ts of different type, quality and accuracy class etc. Inspection consists of a visual inspection of the installation to ensure that the installation complies with the current regulations and is up to the standard..
- After installation, the measuring instruments are to be sealed by the Electrical Inspector concerned with record of the Initial meter reading, seal serial No., Name / Signature of the Inspecting Officer etc.
- The installation is to be allowed for energized only after rectification of defects (if any) and completion of initial inspection.
- Periodic inspection and testing at regular intervals is a requirement, which identifies any damage or deterioration that may have occurred over the period

Electrical License Board Odisha (ELBO)

Monitoring Issue / Renewal / Cancellation of certificate of competency, License and permit to different categories of Work men, Supervisors and Electrical contractors

Integration of real time updated data about the Supervisors, Electrical Contractors and Work men etc. with other modules to access and use dynamically.

Deliverables

- Creation / Edit of Workmen, Contractor , Supervisor, Project License
- Search License Details Category wise (MV/HT/EHT)
- Search by Approval Date
- Search by License No
- License Statistics

Features Implemented

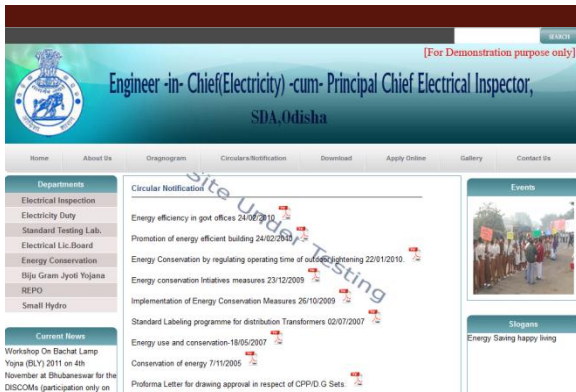
- Online Employee Verification
- Online Supervisor, Contractor Application
- Online Renewal Application
- Uploading Photograph & Signature of License Holders

Future Enhancement

- E-Payment gateway can be integrated to receive on line payment from the applicants.
- Automatic alert (Email and SMS for **renewal** and **cancellation**) also can be sent to license holder.
- Contractors can file their monthly return online which will be mapped against their License number.
- OMR based Exam
- Smart Card based Licensing system

Overview

- *The workman's permit granted is valid for the renewal period and shall be renewed for a period of 5(five) years or upto 62 years at a time, on payment of renewal fees.*
- *The Supervisor Certificate is valid for the renewal period and shall be renewed for a period of 5(five) years or at a time up to 60(sixty) years, on payment of renewal fees.*
- *The License is valid for a period of three years and shall be renewed periodically not exceeding three years at a time, on payment of annual renewal fees.*



Portal for the O/O EIC (Electricity) – cum - PCEI, Odisha <http://ori.nic.in/demosdaorissa>

This is the major interface between department and citizen catering to various e-Information & e-Services.

Deliverables

- Information on various schemes
- Facility to Download various forms / circulars / guidelines
- About Us
- Organogram
- Notifications / Gazettes
- Photo Gallery / Events
- Uploading Current News
- Slogans to create awareness

Features Implemented

- Dynamic Search Engine
- Online Challan Verification through Treasury Portal
- Interlinking to different projects / sections web modules
- Security Audited (Level-I)

Future Enhancement

- Hosting without Demo watermark after approval of the authority
- Integration of Payment Gateway, Email, SMS
- Development of Kiosk module to enable access over touch-screen IT Kiosk by citizen
- Enabling Data capturing through SMS from field offices / client sites

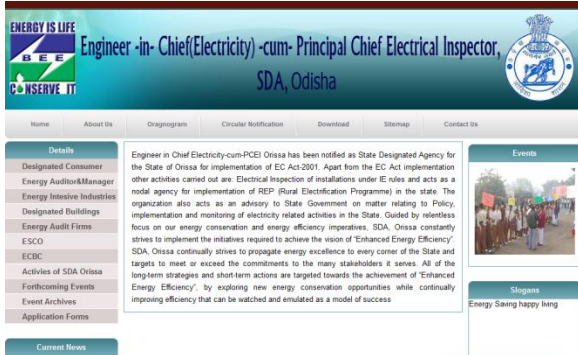
Network Setup

- 2 Mbps Leased Line of BSNL
- Port Connectivity from NIC
- Internal LAN covering E.I.C Office, ELBO, STL,
- Video Conferencing System with LCD TV
- Official e-Mail services over nic.in domain

Secured Data Hosting

- The Secured State Data Centre of NIC used for hosting the web enabled applications.
- Storage Area Network (SAN) of NIC used for Data Storage and Backup





Energy Conservation – State Designated Agency (SDA)

Engineer in Chief (Electricity)-cum-PCEI, Odisha has been notified as State Designated Agency for the State of Orissa for implementation of EC Act-2001.

Deliverables

- About Us
- Organogram
- Circular Notification
- Download
- Contact Us
- Designated Consumer
- Energy Auditor and Manager
- Energy Intensive Industry
- Designated Buildings
- Energy Audit Firms
- Energy Saving Companies (ESCOs)
- Energy Conservation Building code (ECBC)
- Activities of SDA Orissa
- Forth_Coming Event
- Event Archives
- Application Forms

Features Implemented

- Dynamic list of Energy Auditors / Managers
- Category wise list of Energy Intensive Industries
- Identified Designated Buildings (>=600KVA or 500KW)
- Category wise Designated Consumers with threshold limit of Energy consumption

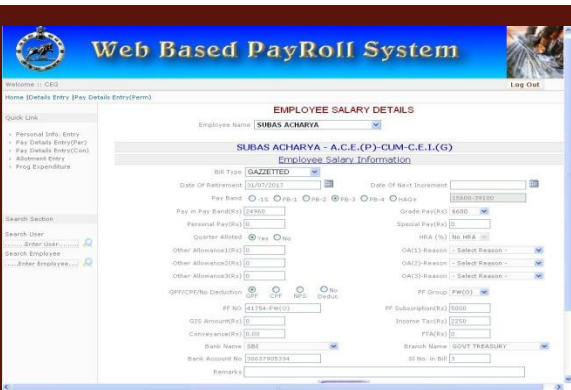
Future Enhancement

- Online receipt of various applications
- Online Awareness Campaigns / Competitions / Informations on request etc.

Overview

- Guided by relentless focus on energy conservation and energy efficiency imperatives, SDA, Odisha constantly strives to implement the initiatives required to achieve the vision of “Enhanced Energy Efficiency”.
- SDA, Odisha continually strives to propagate energy excellence to every corner of the State and targets to meet or exceed the commitments to the many stakeholders it serves.
- All of the long-term strategies and short-term actions are targeted towards the achievement of “Enhanced Energy Efficiency”, by exploring new energy conservation opportunities while continually improving efficiency that can be watched and emulated as a model of success





Online Payroll System

Payroll system generates monthly pay bill calculating payments and deductions based on inputs from accounts section and are transmitted to treasury for payment of salary.

Deliverables

- Form OTC 82
- Pay Bill
- Voucher Slip
- Bank Statement
- Bank Abstract
- Transfer to DDO's CA
- Pay Slip
- Certificates
- Arrear Schedules
- Advance Schedules
- Loan Schedules
- Deduction schedules
- Annual Statement

Workshops & Trainings

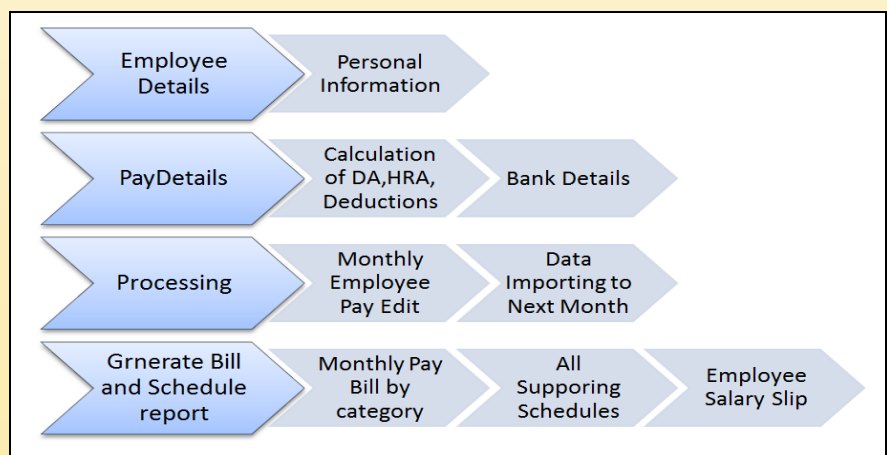
- Workshop on E-Governance was conducted in four different batches for the officers and staffs of the Office of the EIC(Electricity)-cum-Principal Chief Electrical Inspector, Odisha
- Computer Fundamental Trainings conducted on MS-Word, MS-Excel, MS-Windows
- Module specific trainings imparted to concerned officials

Need for further trainings

A number of customised training programmes are required to be conducted cover all officials including field level for effective implementation of the Internet Platform & application modules.

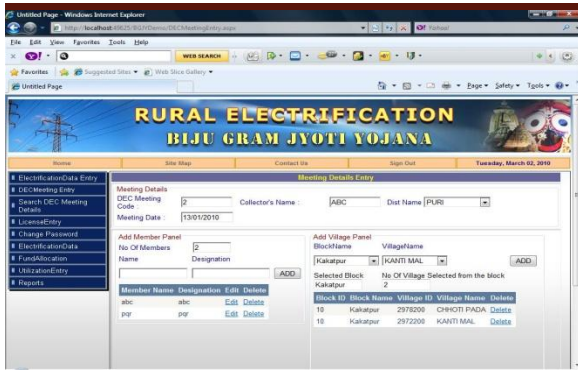


Features Implemented



Future Enhancement

- Combined Schedules generation in one go
- Integration of Income Tax calculation module



Rural Electrification – Biju Grama Jyoti Yojana (BGJY)

To monitor progress of Village Electrification – Estimated Vs. Actual

The system keeps track of the information of the DEC (District Electrical Committee) meeting, where various villages / hamlets are selected for electrification, along with members present in the meeting etc.

Deliverables

- Entry /Edit of DEC Meeting Details
- Searching of Dec Meeting Details
- Electrification Details Entry/Edit
- License Entry of Implementing agency with Verification from ELBO online
- Fund Allocation Details Entry
- Fund Utilization Details Entry
- Completion Certificate to Implementing agency

Features Implemented

- Mapping of Villages with Blocks & Districts
- DEC details with members present and hamlets selected
- Fund allocation Details
- Number of proposed villages / Hamlets estimated for Electrification
- Electrification completion status
- Fund Utilization details
- Implementing Agency Details

Future Enhancement

- Module to be integrated to capture Rural electrification data directly from the districts.

Change Management

- Identification of Nodal Officer from EIC office to coordinate the total process
- Dedicated NIC team for system study, design & development.
- Periodic Review by EIC in presence of all concerned officers
- Sensitisation workshops to create awareness on the proposed planning & roadmap
- Two technical hands to extend operation Management & Support (Tenure is over)
- Two technical hands to extend Facility Management support (Tenure is over)

Immediate Needs

- *Support of One Programmer / Sr. Programmer, One hardware expert to extend network / hardware related support, few DEOs at various sections to enable timely data input are immediately required to make it a success.*

