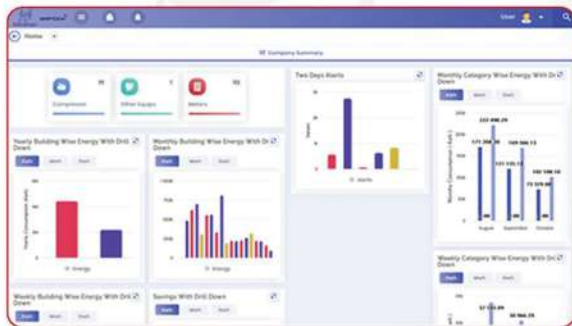


## CHALLENGES AND SOLUTIONS



### Enterprise Energy Efficiency Challenges

- Massive Scale deployment of equipment
- Geographically spread infrastructure
- Legacy and proprietary frameworks
- Inconsistent data collection
- Difficulty optimising energy consumption.
- Lack of Holistic perspective on energy efficiency.
- Equipment Efficiency Blind spots



### Multiple Facilities-Single Window

- Schedule PPM
- Assign personnel
- Maintain Service Routing
- Manage facility contracts
- Service Level Agreements
- Track SLA violations



## FACILITY & SERVICE MANAGEMENT

### SEnergy Solution and Unique Advantage

- Any Time anywhere access & control
- Dense Energy & sensor data collection
- Cloud native & ON-Prem options
- Target Energy guzzlers & relevant sensors
- Realtime detection of trends & anomalies
- Multi-Dimensional analytics for patterns, outliers
- Equipment Specific Threshold for different metrics
- Real Time Alerts for Anomalies & breaches
- Automatic Report Generation over various periods
- Power Quality Analysis & visualizations
- Multi Parameter, Multi Period comparison
- Expected vs actual comparison
- Multi Equipment comparison
- Define, track & measure efficiency programs
- Multiple efficiency programs across enterprise
- Seamless integration with industry-leading Meters, sensors & Data systems

### Resolve Tickets and Complaints

- Auto Generate Tickets from detected anomalies
- Record Service Tickets from various sources
- Record & Track Ticket life cycle with Timeline
- Report Issue resolution stats
- Track SLA compliance and violations
- Store & Retrieve logs

## INTELLIGENT ENERGY MANAGEMENT SOLUTIONS



SEnergy is a world class state of the art multi capability IOT platform

### Bundled Offering

- Remote Monitoring of Energy & sensors
- Intelligence & Analytics
- Control & Scheduling
- Ticket Resolution System
- Facility Management Module
- Network & POE Control
- AI & ML for prediction
- Dense IOT data push & pull
- Diverse Equipment & sensors
- Geographically-distributed facilities



### Proven Verticals

#### Renewable Energy

- ✓ Solar
- ✓ Wind
- ✓ BioMass

#### Large Energy Consumers

- Universities ✓
- Cold chains ✓
- Hotels ✓
- Process industries ✓
- Pharma & Chemical ✓
- Hospitals & HealthCare ✓
- Data Centers ✓
- Heat treatment ✓
- Steel smelting ✓
- Textile ✓

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## PERPETUAL BUSINESS VALUE



### Value Proposition

- Analyse & compare consumption
- Identify hidden cost centre
- Focus energy saving efforts
- Increase power and utilization efficiency > 20%
- Improve safety by preventing electrical mishaps
- Detect energy saving opportunities
- Conserve directly up to 35% of energy
- Obviate frequent & expensive energy audits
- Avoid opportunity cost of down time, fire hazards, reduced production, shelf life, wastages
- Enforce SLAs with AMC vendors



### Ease of Access |

- Anytime, Anywhere, Monitoring and control
- Available on SaaS (Software as a Service) Model
- Best in class process monitoring
- Finegrained Automatic Schedule
- Solution is not capital intensive
- Easily Scalable



## REDEFINING COMMON SENSE

### Dashboard Features |

- Intuitive, Configurable easy-to-use
- Compatible with any web browser
- View, benchmark, & generate reports
- Live Single Line Diagrams emulating “SCADA on the Cloud”
- Real time energy monitoring
- Rich visualizations with intuitive drill-down
- Enterprise level to Equipment level drill-down
- Measurement & Verification (M&V)
- Cost allocation analysis
- Customizable widgets
- Browser & App access
- Setup user login as well as access groups according to user permissions

### Detect, Quantify & Alert

- Single Phasing
- Frequency Deviation
- Power Factor Deviation
- Voltage Deviation
- Duty Cycle Excess
- On/Off status of the Equipment
- Phase Deviation exceeding limits
- Power Overload
- Temperature & Humidity Breach
- Level Overflow and Underflow
- Flow Disturbance
- Pressure

And all other sensor readings, anomalies and disturbances, configurable as per requirement

## EMPOWERING O & M WITH FINER DETAILS



### Preventive Measures & Cost savings

- Speedy problem detection and resolution
- Improved Decision Making
- Correlate electrical anomalies to safety
- Parameters in real time
- Prevent Electrical Mishap leading to fire hazards
- Minimize maintenance time & cost
- Conserve Energy
- Prevent Production Wastage



### Control & Schedule |

- Cloud based control of target equipment
- Fine grained On Off & environmental Setting
- Control of individual equipment
- Control Entire facility by single click
- Schedule Entire facility or individual equipment from intuitive UI