Energy Efficiency Through Digitalization
We continue to face new challenges

- Demanding sustainability goals
- Higher customer expectations
- Rising operating costs
- Increasing regulatory compliance
- Aging infrastructure

Is your building ready to face these challenges?
What are Sustainability Goals & KPIs of organization?

- Reduction in Total Utility Expenses
- Enhanced Performance of Non Core Assets
- Green Building Certification
- Right Financial Solution
- Reduced Carbon Emissions - Neutrality
Solution built around Digitalization

✓ Our Invention!
✓ A unique patented technology from Siemens

Background

- Designed for Chilled Water Plants
- Addressing the inherent design challenges in chiller plants.
- Precise and ease in Measurement and Verification
Operate at design intent conditions only 5% of the time (per ARI standards)

Total plant energy performance not fully measured

Chillers not operating at design temperature splits

Excessive bypass of chilled water flow

Continuous full speed operation of some plant equipment

**Typical Characteristics**

- Solves Low Delta-T and Increases Deliverable Tonnage
- Subsystems “in-sync” creates a virtual single CHW Loop
- Reduced chiller Plant Consumption
- Less wear and tear and reduced run-time = extended equipment life and less energy usage
- Higher efficiency at Part Load conditions
- Hence better return on Investment
- Improved indoor environmental quality and comfort
- Data transparency and expert analysis through EMC
Demand Flow Dashboard

SIEMENS

DEMAND FLOW DASHBOARD - 01

Primary Pump
Secondary Pump
Chiller
Condenser Pump
Cooling Tower

Energy Meter
Total kW
272.7 kW
Active
Total kW/Ton
0.830

Tonnage
326.5
Baseline kW/Ton
1.23
Creating Perfect Places

Taj Lands End
Mumbai

Hyatt Regency,
Delhi

Courtyard Marriot,
Mumbai

Toyota Kirloskar
Motors, Bangalore

Hindustan Unilever
Ltd
Advance Service Centre
Navigator, cRSP, Data Analytics Services & MORE...
Siemens Navigator
Turning data into results across your entire building portfolio

Data analysis
Apps to track energy & sustainability KPIs

Leverage transparency
Make insight-based decisions with self-service dashboards

Data connection and collection
Gathering the data you need

Uncover opportunities
Take action to optimize your buildings

Data-driven services from Siemens

Enhance system performance
Achieve sustainability goals
Reduce energy spend
Maximize energy and operational efficiency
The right people –
global expertise and local presence

10’000 globally
Local field service engineers are dedicated to taking action and ensuring the optimization of your systems

200+ globally
Global network of performance and support engineers in the Advanced Service Centre and Digital Service Centers monitor and diagnose issues through data analytics
It begins with an advance sensor
It begins with an advance sensor
The Enlighted Technology Solution

Enlighted Sensors

Enlighted Gateway

Enlighted Energy Manager Cloud

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Space Heat Map
50% of the Fortune 10, 34% of the Fortune 50, 10% of the Fortune 500
Thank you!