

# The 5<sup>th</sup> Fuel

Energy crisis and rising energy cost are two important factors affecting today's businesses. In order to fulfill the rising demand, more power generation plants are being planned and the cost thereof is recovered from consumers in form of higher energy costs. Conventional energy sources like coal & oil are getting exhausted faster than expected and alternative sources of power turn out to be more costly.

## DID YOU KNOW?

There is a renewable-energy resource that is perfectly clean, remarkably cheap, surprisingly abundant and immediately available

It has potential to reduce the carbon emissions that threaten our planet, our dependency on oil imports that threaten our economy, and energy costs that threaten our wallets

It does not pollute, does not depend on weather, does not inflate prices and does not take a decade to build

This miracle resource is better known across the world by the distinctively boring name of "**Energy Efficiency**". It turns out that it is much less expensive, less destructive and less time-intensive to **reduce demand** through efficiency than to **increase supply** through new drilling or new power plants.

Energy Efficiency is appropriately considered today as the **5<sup>th</sup> Fuel** to serve our increasing energy requirement.



Energy efficiency has today become the largest energy source. It is bigger than oil, and much bigger than wind, solar, hydroelectric power and bio-fuels combined. The utilization of this "**5<sup>th</sup> Fuel**" is clean, possible and profitable.



**Do your staff often forget to switch off the lights before leaving office?**



**Have you noticed if some AC's run at full blast even when it is uncomfortably cold?**



**Do you know exactly how much energy is consumed by those old bulbs and tubes?**



**Are you aware if your old freezer is consuming abnormally high energy?**



**Do you actually have enough control over your energy consumption?**

In a typical organization there are several departments and areas each having its own consumption pattern. It is important to understand these patterns and address them properly to gain energy efficiency. The key to a successful energy efficiency program lies in the control you have over your energy consumption.

Turn overleaf to know how we can help you take the 1<sup>st</sup> step to regain control over your energy consumption



# Your **1st** Step

## Do you want to

- Introduce an energy saving program?
- Reduce utility costs and carbon footprint?
- Monitor effectiveness of existing campaign?

## You will need accurate data to

- Understand consumption patterns
- Identify and focus on energy wastage
- Monitor the effectiveness of your actions

## Online **Energy** Monitoring

Identifying the key energy consumption and wastage areas of your organization is your first step towards achieving energy efficiency.

**Future Netwings** introduces you to a LonWorks based Online Energy Monitoring Solution for accurate real-time monitoring, recording and reporting of energy and utilities usage.

The solution lets you create information base for overall energy conservation program, to improve facilities operation and maintenance practices and above all optimize Energy costs.

The system enables you to access a range of real-time and historical data including voltage, current per phase, frequency, power factor, power and energy. With this data you can gain an accurate understanding of your usage patterns. The solution also provides you with the ability to produce graphical trend reports. Any irregularities in usage patterns are highlighted in the graphs for further investigation.

## Advantages of Online Energy Monitoring

- Monitoring & Capturing of Dynamic Load Patterns
- Immediate data during Adds, Moves & Changes
- Comparative Consumption Analysis across various timelines like hour, day, week etc.
- Maximum Control over accountability
- Factual Data Analysis for Informed Decisions
- Basis for adoption of Appropriate Control Strategy

## The Key Components of our Solution

### i-Logicon Smart Energy Meters

- Communicates over twisted pair, free topology for continuous energy monitoring.
- Provides insight into power consumption patterns of various equipment
- Comprehensive 3-phase and single-phase instantaneous measurements like voltage, current, power, power factor, energy and frequency



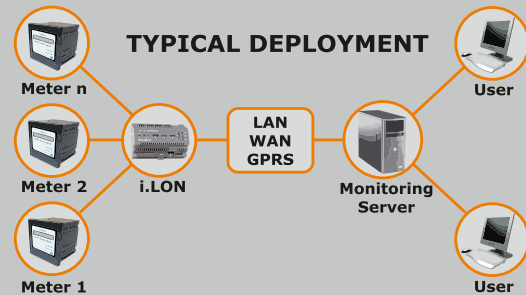
### Echelon i.LON SmartServer 2.0

- A versatile smart energy manager that helps your business achieve its operating and energy-efficiency goals
- Designed to connect to IP-based applications such as enterprise energy management solutions for connecting thousands of electronic devices to control centers.
- Control, monitor, and manage virtually any electronic device in your control network
- The device connects to all the Smart Energy Meters and collects the necessary information for monitoring, controlling and review.



### OPiuM nRG Monitoring & Reporting

- High-performance web-based solution for Operations Performance Management through real-time continuous energy monitoring
- Provides insight into energy consumption patterns of various equipments over different variables
- Configurable alerts for predefined trigger events
- Analysis options for predictive capabilities



Continuous Energy Monitoring or Sub-Metering is being adapted by countries across the globe as a part of the green initiative. Studies have shown that through online monitoring and control, energy consumption in organizations may be reduced by up to 20%. Are you ready to take **Your 1st Step** yet? **CALL US TODAY** for more details.

**Future Netwings** is an ISO 9001:2008 certified **LonWorks Authorized Network Integrator** and member of **Echelon Open Systems Alliance**.



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