



**The Most Efficient Tool To Control Your  
Electricity Consumption**



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## Abstract



Efficient use of energy, waste prevention, relieving the burden of the energy costs on the economy and increasing the efficiency in the use of both the energy and energy resources are worldwide adopted goals.

In the institutional structures where the budgets are too tight and expenses are questioned to the smallest details more than ever before, the ability to control the electricity use which has almost the biggest share in overall consumption is a major advantage. Institutions may increase the competitiveness in national and international level through producing the same amount of goods and/or services with reduced electricity.

High electricity bills are a common problem for the players in all sectors such as institutions engaged in production, service sector business – hotels, retail stores etc. Beside, these companies generally have no idea if they have an efficient use of electricity or not.

With Electra solution developed by Idea Teknoloji, it is possible both to control the electricity costs and to verify the quality of energy provided through the existing electricity infrastructure in the most efficient way possible.



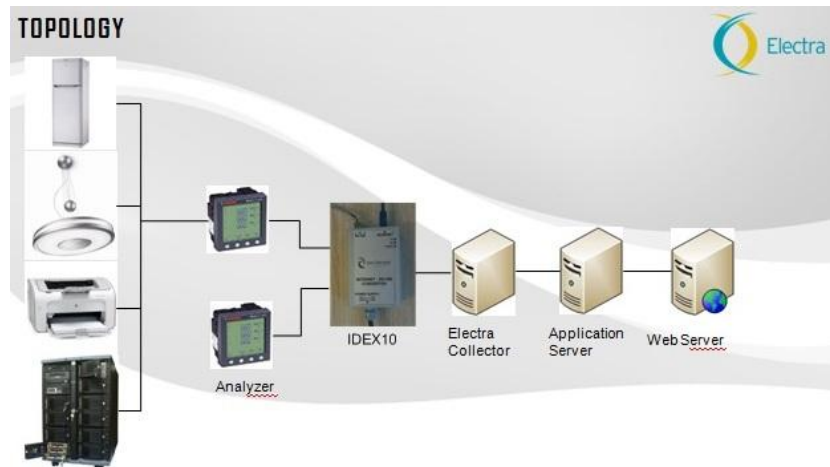
**Measuring Consumption Requires Management.  
Managing Consumption Ensures Your Control Over  
Consumption.**



# ELECTRICITY CONSUMPTION & QUALITY MANAGEMENT SOLUTION



Electra, a result of engineering knowledge of Idea, in one or more area or building, ensures the electricity data collected from the electrical power consuming devices, to be managed and analyzed in the central IT environment.



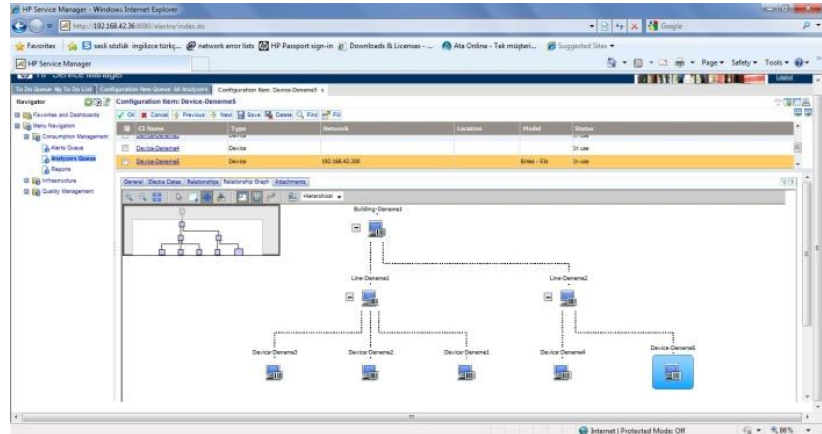
With IDEX-10, developed by Idea, Electrical data collected and associated in a database. HP Service Manager – a worldwide accepted part of the HP software experience - is a component of Electra as a framework and provides information about the data associated and situations requires actions to be taken by the energy managers.

Electra, consists of 2 main modules: Electricity Consumption Management and Quality Management.



## Electricity Consumption Management :

This is the module where electrical power consumption values are collected and managed from every area where requires consumption management – areas, buildings, particular line in a particular building.



The system calculates the expected power consumption for every particular line for all electrical power consuming devices. And creates alarm messages for the excess consumption.

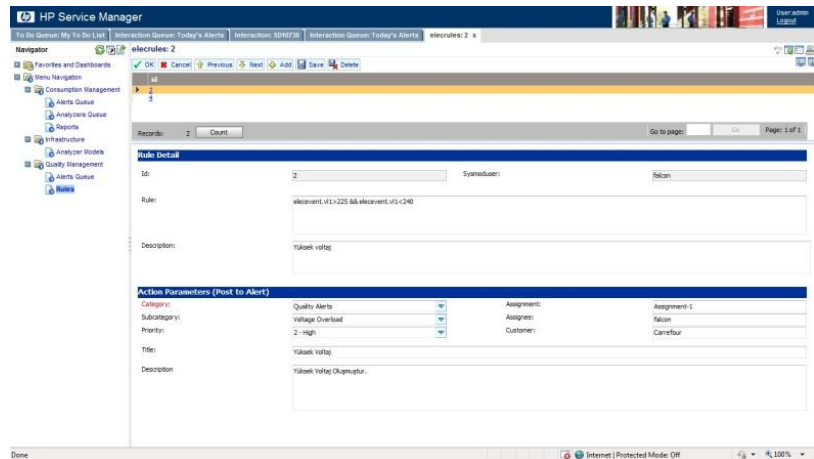
Info	Search	Refresh List	View:	Today's Alerts
Information ID	Title	Customer	CI	Category   Priority
0000720	Device-Deneme3 - Breaker Consumption-Alert	Boyerler	Device-Deneme3	Consumption   Alert
0000720	Building-Deneme3 - Breaker Consumption-Alert	null	Building-Deneme3	Alert   Alert
0000721	Site-Deneme3 - Breaker Consumption-Alert	null	Site-Deneme3	Consumption   Alert

Fluctuations in current / voltage / power values, values parameters determining the quality of electric lines such as: Cos phi values, active-reactive power values are measured directly.

Once corrective action requirements are determined through the measurements of these values, the one in charge for energy management can take action.

## Quality Management :

This module measures the quality of the energy provided by the existing electricity structure.



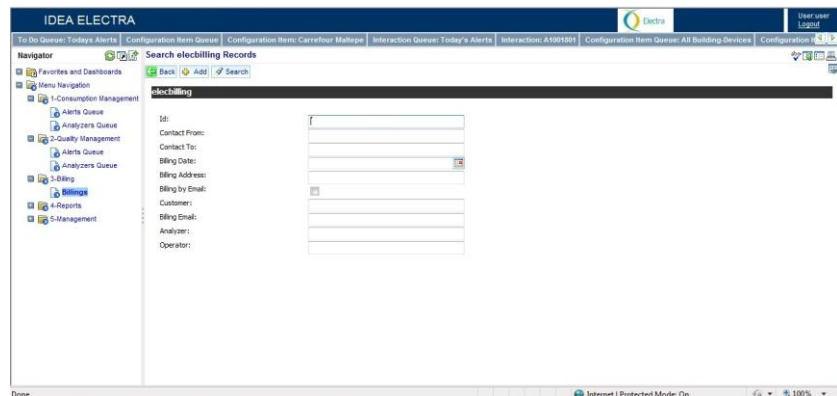
Thanks to the flexible rule definition interface, system creates warning messages if the oscillations in electrical harmonics are below or above of predefined values. Thus the solution can prevent these oscillations to affect sensitive equipment and unintended consequences.

## Billing :

Electra provides

- Line based billing
- Consumer based billing

In case of an internal billing system available, Electra could be integrated with the system easily.

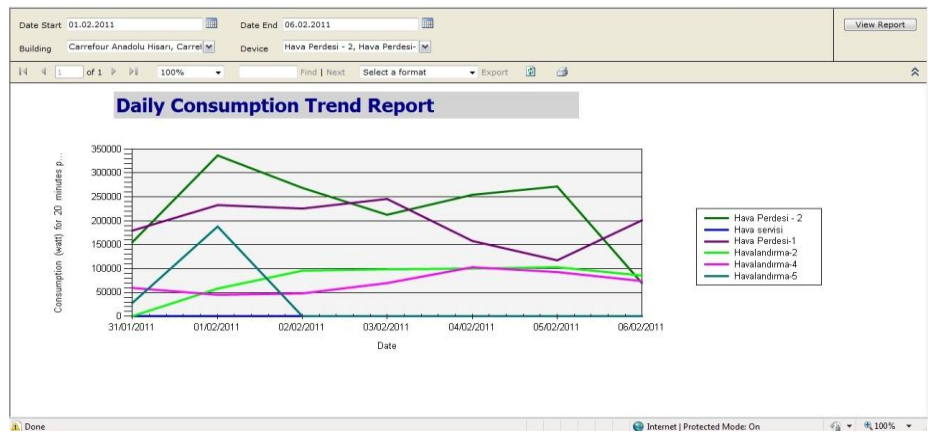
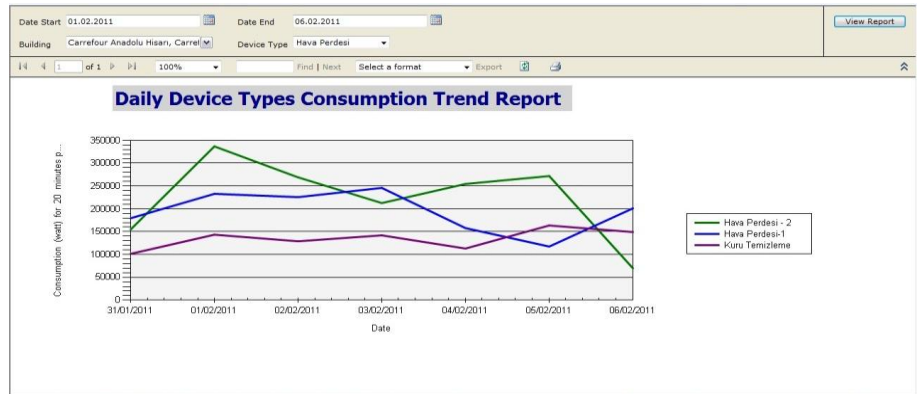
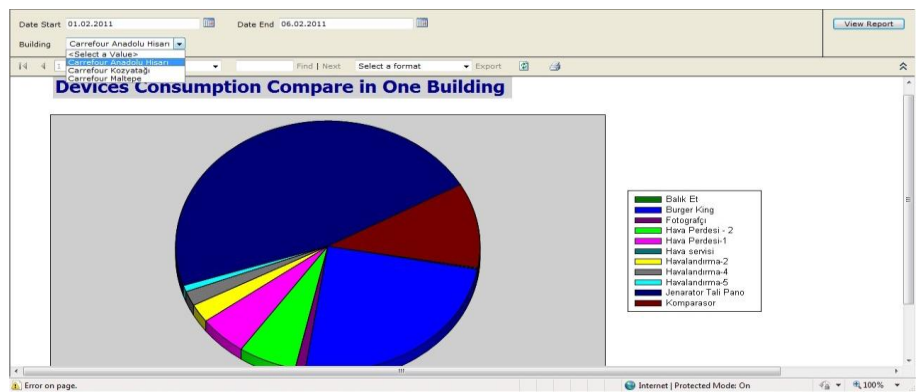
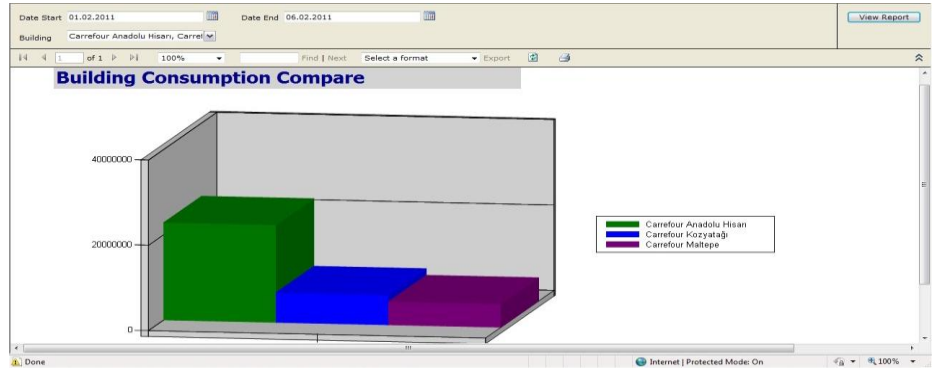


## Reporting :

As in all Idea products, flexible and customisable reports are available .

- Region based consumption
- Device based consumption
- Active Power, Reactive Power
- m2 based consumption
- Most consuming points

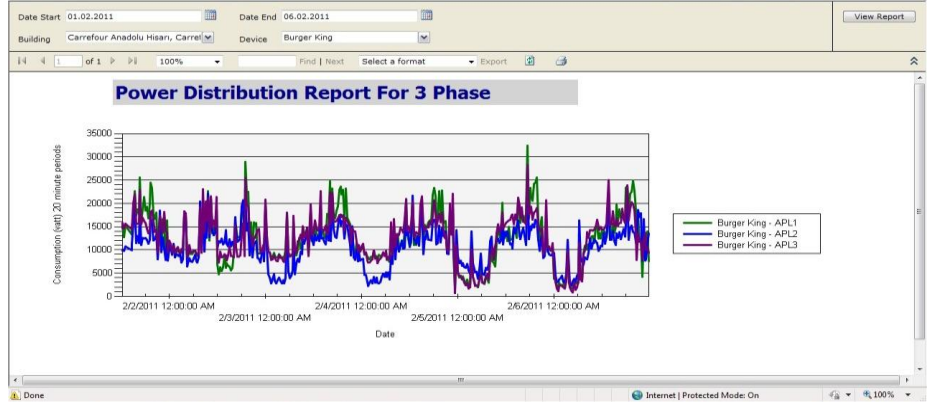
- Trend analysis
- Harmonics



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## About Idea Teknoloji

Idea was founded in 2004 as a result of years of knowledge in studies of large scale service management infrastructure design & implementation.

Today with more than 25 consultants, Idea's products are used by more than 60 leader companies in Finance, Telecommunication and Retail Business in Turkey.

### Idea Solutions :



A 3rd generation City Surveillance Management System. The system centralises the distributed data(from different sources such as city camera system, police cars, call center etc.) and correlates to allow security forces gain speed and efficiency in preventing the crime with a robust and reduced cost system.



A system developed/designed by Idea to manage Electricity Consumption & Quality. Abstract level representation of overall system against to SCADA based solutions with almost 2 years of ROI.

### HP Software Solutions :



As a Gold Business Partner of HP Software, Idea, provides software products and consultancy services to align the technology with the needs of business.

- IT Asset Management
- Configuration Management Database
- IT Service Management
- Test Data Management
- Application Lifecycle Management
- Web Application Security Management
- Quality Assurance