0101
Since 1985
elttronics ®
To provide insight for enhancing wealth
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SMART HOME

Life Made easy,
Secure and Smart...

Safety and Security

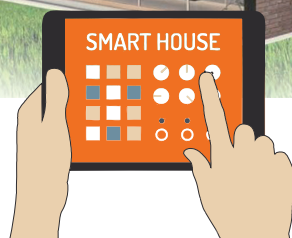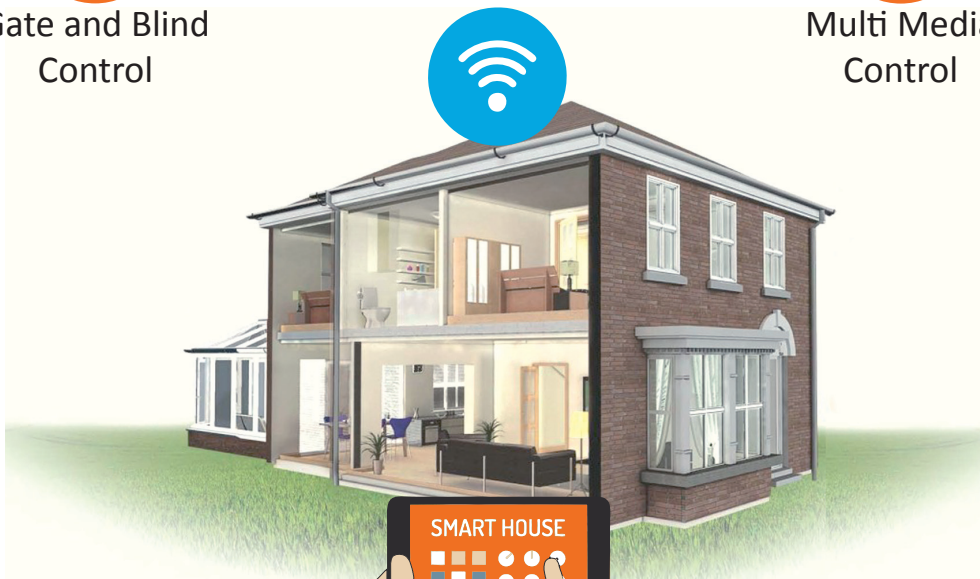Gate and Blind Control

Multi Media Control
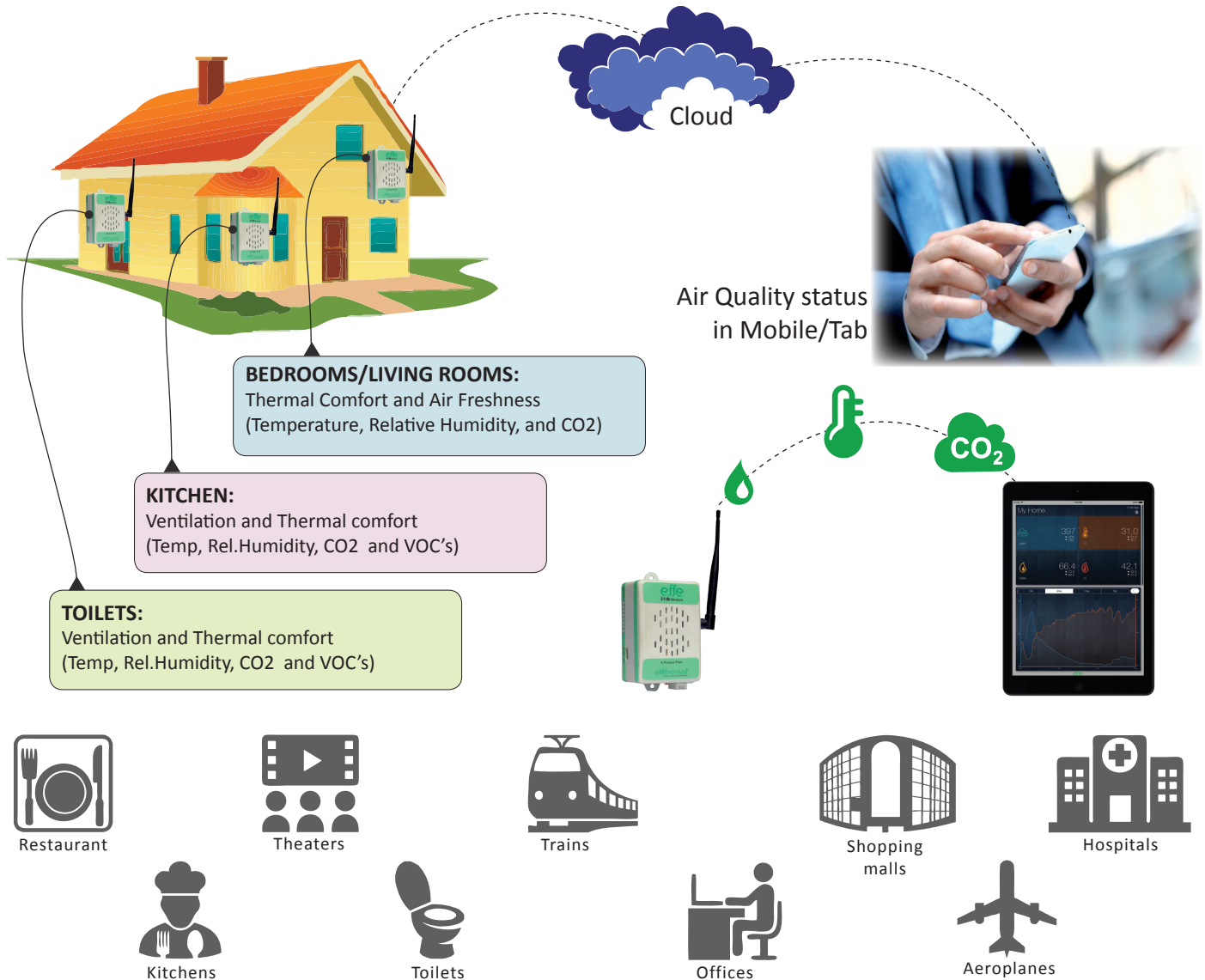
Smart Environment

Lighting Control

Appliance Control

Energy Monitoring

SMART HOUSE

* Improves Comfort

* Ensures Security

* Reduces Energy Consumption

* Creates Healthy Living Spaces

* Enhances Accessibility

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Indoor Air Quality Monitoring System

Monitors & analyses indoor environment, alerts the user for healthy & safe air quality by measuring:

- ❖ *Air Temperature*
- ❖ *Relative Humidity*
- ❖ *Carbon Dioxide (CO2)*
- ❖ *Volatile Organic Compounds (VOC's)*

Cloud

Air Quality status in Mobile/Tab

BEDROOMS/LIVING ROOMS:
Thermal Comfort and Air Freshness
(Temperature, Relative Humidity, and CO2)

KITCHEN:
Ventilation and Thermal comfort
(Temp, Rel.Humidity, CO2 and VOC's)

TOILETS:
Ventilation and Thermal comfort
(Temp, Rel.Humidity, CO2 and VOC's)

CO_2

Restaurant

Theaters

Trains

Shopping malls

Hospitals

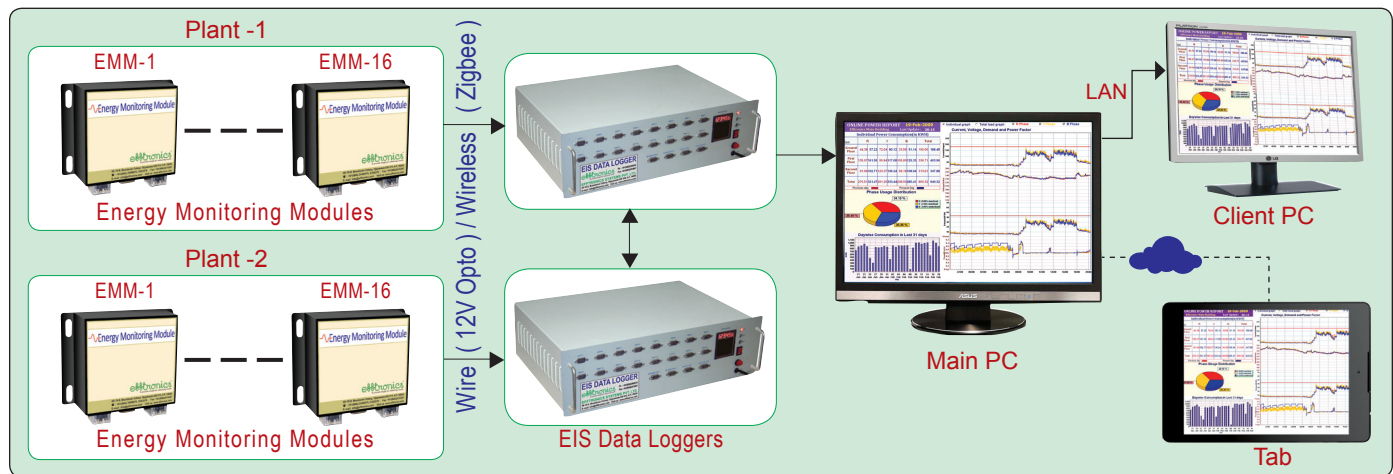Kitchens

Toilets

Offices

Aeroplanes

BENEFITS

- ❖ Continuous Air Quality monitoring
- ❖ Parameters stored in cloud
- ❖ Visual analytics in Mobile Apps
- ❖ Interactive graphical User Interface
- ❖ Output can be utilized for demand control ventilation
- ❖ Access to your historical data and tag pollution peaks
- ❖ Get alerts and notifications through Mobile App
- ❖ Get warned from future pollution peaks

"A PRODUCT DEVELOPMENT COMPANY"

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Energy Information System

❖ *Logging the energy consumption information from various energy accountable areas.*

❖ *Measures and records various energy parameters.*

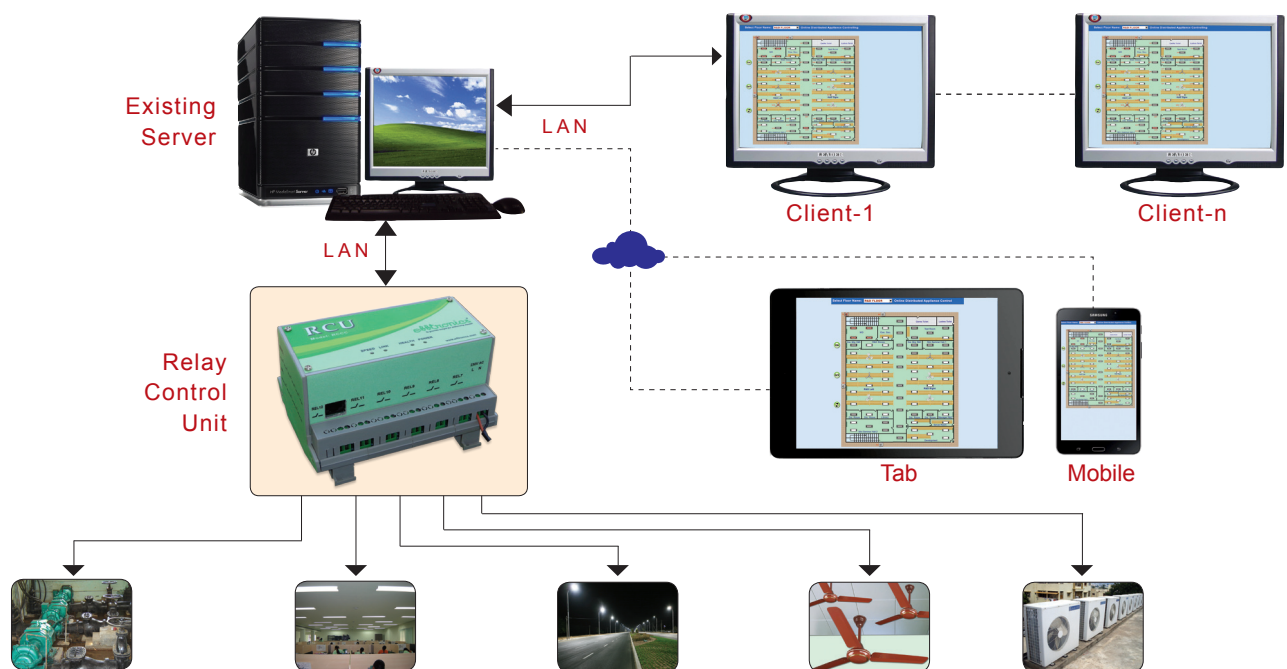❖ *Identifies Energy Conserving Opportunities (ECOs)*

BLOCK DIAGRAM

Plant -1
EMM-1   EMM-16
Energy Monitoring Modules

Plant -2
EMM-1   EMM-16
Energy Monitoring Modules

Wireless (Zigbee)
Wire (12V Opto) / Wireless

EIS DATA LOGGER
EIS DATA LOGGER
EIS Data Loggers

Main PC

LAN
Client PC

Tab

On-Line Distributed Appliance Control

❖ *On-line distributed appliance control is a system to control the electrical appliances distributed over a large area remotely from a central place.*

❖ *This helps to save power and time of the user as the appliances can be controlled at any time with a click.*

Existing Server

LAN

LAN
Client-1   Client-n

Relay Control Unit

RCU

Tab   Mobile

SMART HOME

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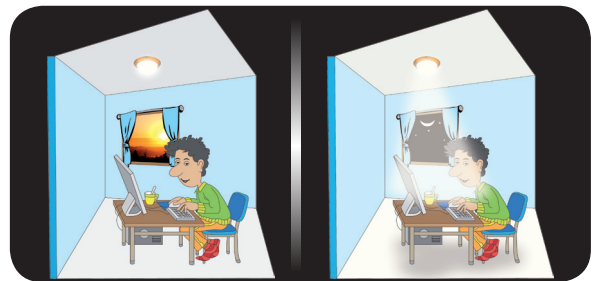*To provide insight for enhancing wealth*

Lighting Control

- ❖ Lit the light where ever you want
- ❖ Enhanced energy efficiency through sensors integration
- ❖ Control through Mobile App / Wall panels
- ❖ Virtual Moon Light in your living and work Spaces
- ❖ Create your own personalized light ambience
- ❖ Operations include On/Off/Dimming and scheduled operations
- ❖ Easy integration with security & Multi Media controls
- ❖ Play themes with smooth changes from color to another color

Motion Detection   Occupancy Detection   Ambient user Lighting Control

Multi Media Control

- ❖ Easy to use remote controls and touch screens
- ❖ Your music and video at the touch of a button
- ❖ Integration of lighting and climate control
- ❖ Access and security control in any room

Gates & Blind Control

- ❖ Shutters protected from violent gusts of wind
- ❖ Automatic closing if rain is detected
- ❖ Comfort enhanced by lowering blinds or shutters if light is too bright
- ❖ Safety enhanced by automatic closure when night falls
- ❖ Comfort and safety enhanced by systematic opening/closing at aset time

Safety and Security

- ❖ See live video of your home from anywhere on your Smart phone / Computer.
- ❖ *S*ync your Cameras to motion detectors and receive triggered clips automatically.
- ❖ Store video clips of triggered events..