## Thasmai
Automation (P) Ltd.

*The best solutions for your home*

**Thasmai Automation Pvt Ltd**
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# Light Automation Solutions...

## Save Energy! Save Money

*Energy saved is Energy earned!*
### Thasmai Light Automation
*Helping you save energy and get more productivity*

www.thasmai.in

# THASMAI
WITH
# PHILIPS
INTRODUCES

Light Automation Solutions

## Global
## Energy Consumption

Based on current global energy consumption, world energy demand to increase 50% by 2030.

Consumed in a typical commercial building. It is possible to reduce lighting energy consumption by as much as 55% with the help of lighting controls. By going the extra mile to ensure energy savings, your company not only gains on Return on investment but also gains credence in your contribution towards a greener and sustainable environment.

ECO FRIENDLY

2030

**30%** Buildings consume 30% of Worlds Energy

**30%** Artificial Lighting contributes 30%

## What is
## Light Automation?

Most commercial spaces are over-lit, leading to wasted energy usage. But over-lit spaces can also affect the productivity of employees. Too much daylight or electric light can make even the most fundamental tasks, such as computer work, uncomfortable and difficult to perform. By incorporating lighting based on task performance and providing personal control of lighting and shading, commercial spaces can realize measurable effects on employee productivity and motivation. In addition, employees typically dim the lights when given personal control, further increasing energy savings.

Light Automation hence ensures each employee can get his/her preferred setting to inspire highest efficiency and output from the overall team.
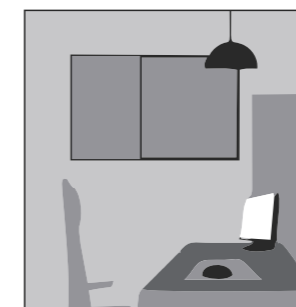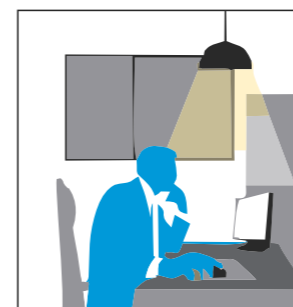
■ Style

■ Energy Source

## Light Automation consists of 2 levels

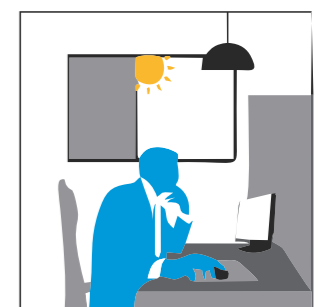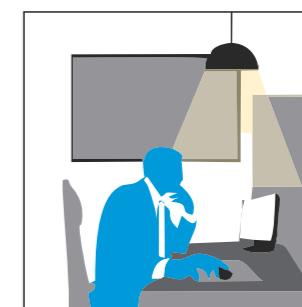- ■ **Stand Alone System**
- ■ **Networked Control Systems**

■ **Stand Alone System**

In standalone systems, every light is connected to a sensor, which acts as a switch. Switches on sensing a person's presence, and switches off on detecting absence.

Occupancy Sensing

Daylight Sensing

# The Philips Advantage

Coverage area for other sensors is circular, Philips covers rectangular spaces. Show in graphical way how circular misses out and rectangle doesn't allow 'dark spots' in office
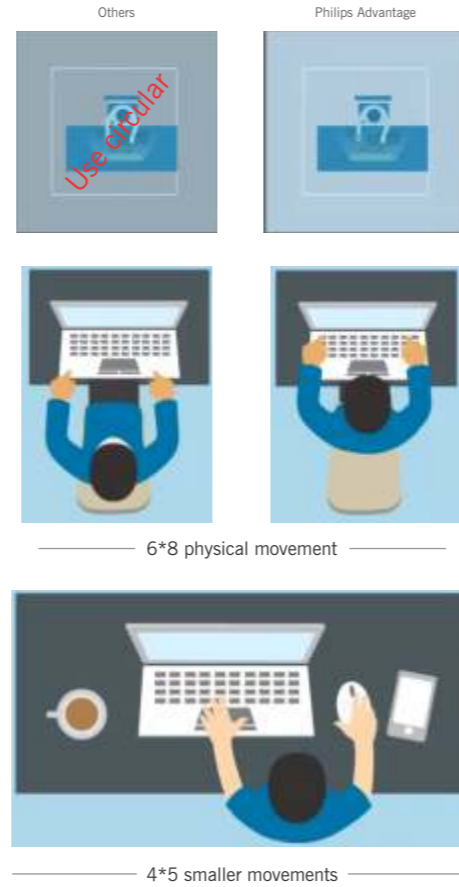
Regular sensors detect only physical movement, subtle movements noted. Graphical- Other sensors- uniform detection,
Philips allows for 2 levels of differentiation
- 6*8 m physical movement
- 4*5 smaller movements like typing etc are captured

China or US/Europe- Sensor based on heat detection, operating conditions are very different in actual Indian climates. Whereas Philips sensors are manufactured in India (Bangalore) keeping *Indian weather conditions in mind*
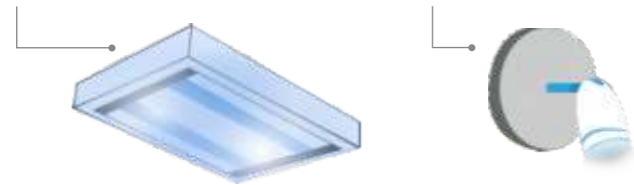
Thasmai Light Automation also Offers ceiling mounted, false ceiling, and wall mounted options. Wall mounted covers upto 12 m, and can be used for corridors/passages and old buildings with higher ceilings

Another type of standalone considers occupancy as well as lux level (graphical describe how sun light, existing light etc can on/off the lights)

Others | Philips Advantage



Use circular

6*8 physical movement

4*5 smaller movements

**Ceiling Mounted**          **Wall Mounted**

Bangalore

# DALI
Digitally Addressable Lighting Interface

Each light / ballast can be individually addressed.
Adjust each light / Ballast individually..
Individual lights can be dimmed / brightened as per program.

Living Room

# Individual lights can be programmed with any factors.

One Light 80%          One is 60%          Switches off after 6-PM          Switches off after 9-PM

# Light Automation

## ■ Network Controlled Systems
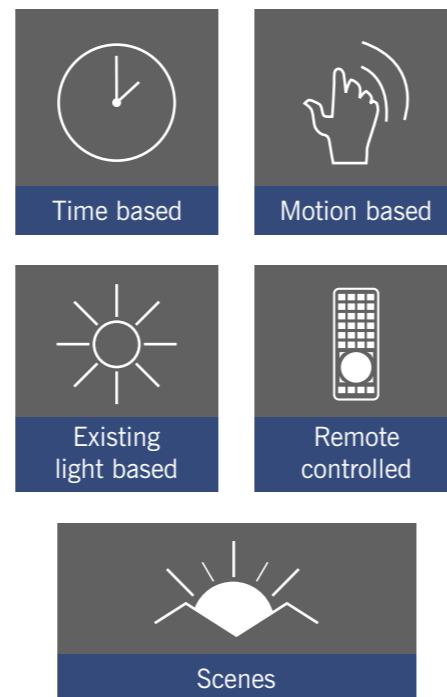
**DALI**
(Digitally Addressable Lighting Interface)

ballast system – each light/ballast can be individually addressed.
Individual lights can be dimmed/brightened as per program.
- Time based
- Motion based
- Existing light based
- Remote controlled
- Scenes

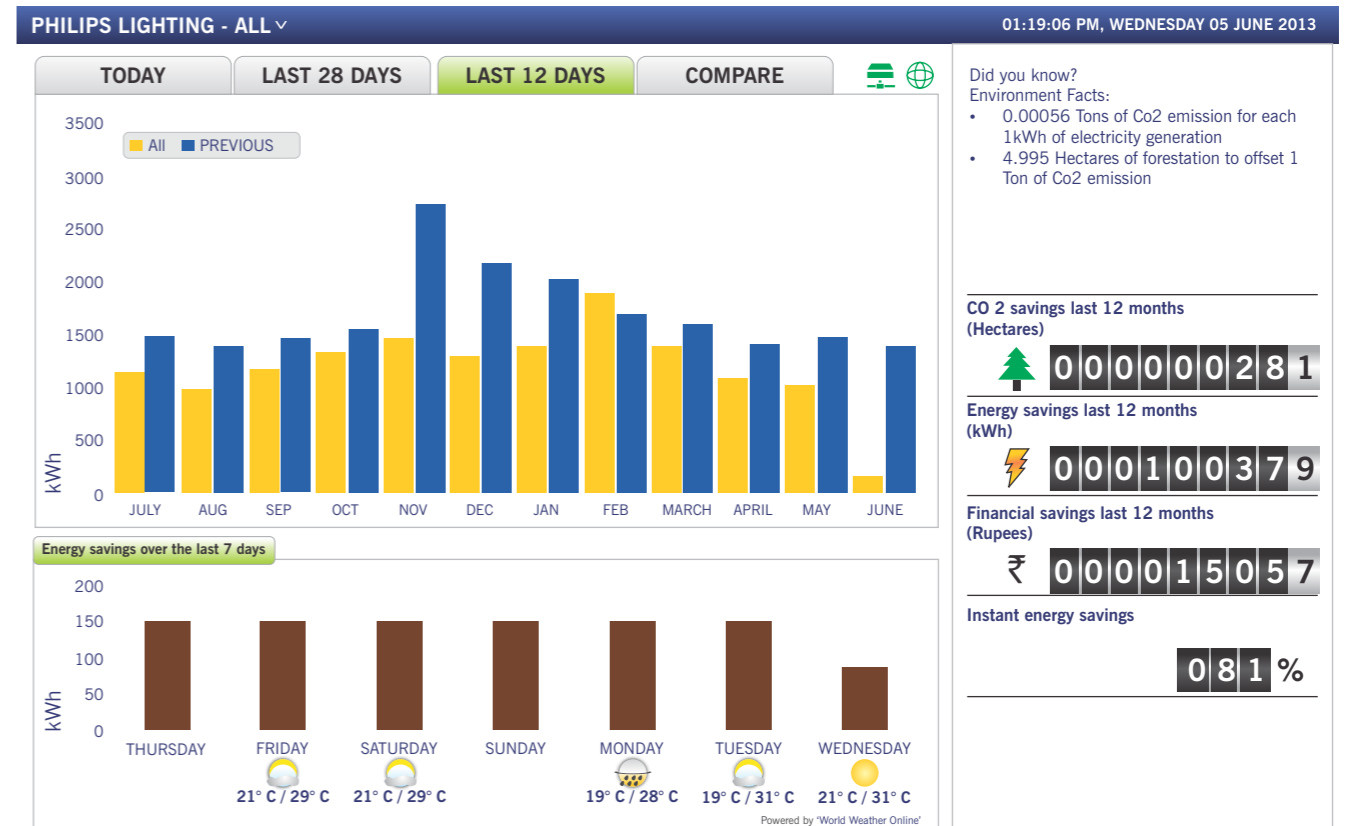can be set according to customized modules.

Individual lights can be programmed with any factors (one light 80%, one is 60%), (one light switches off after 6PM, 9Pm alternate lights), remotely switch on/off, program intensity of individual lights.

Reporting- Energy reports per floor/department/timing/area to show consumption and energy saving data real time.

| Time based | Motion based |
| --- | --- |
| Existing light based | Remote controlled |

Scenes

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# Energy Dashboard

**PHILIPS LIGHTING - ALL** ⌄

01:19:06 PM, WEDNESDAY 05 JUNE 2013

| TODAY | LAST 28 DAYS | LAST 12 DAYS | COMPARE |
| --- | --- | --- | --- |

■ All  ■ PREVIOUS

kWh (chart: JULY, AUG, SEP, OCT, NOV, DEC, JAN, FEB, MARCH, APRIL, MAY, JUNE)

Energy savings over the last 7 days

kWh (chart: THURSDAY, FRIDAY, SATURDAY, SUNDAY, MONDAY, TUESDAY, WEDNESDAY)

FRIDAY 21° C / 29° C
SATURDAY 21° C / 29° C
MONDAY 19° C / 28° C
TUESDAY 19° C / 31° C
WEDNESDAY 21° C / 31° C

Powered by "World Weather Online"

**Did you know?**
Environment Facts:
- 0.00056 Tons of Co2 emission for each 1kWh of electricity generation
- 4.995 Hectares of forestation to offset 1 Ton of Co2 emission

**CO 2 savings last 12 months (Hectares)**
0 0 0 0 0 0 2 8 1

**Energy savings last 12 months (kWh)**
0 0 0 1 0 0 3 7 9

**Financial savings last 12 months (Rupees)**
₹ 0 0 0 0 1 5 0 5 7

**Instant energy savings**
0 8 1 %

Controlling software from individual system
(GUI is at individual desktop level, if programmed that way).