

SAVE UP TO 85% OF YOUR LIGHTING BILL

IMPROVED BOTTOM LINE WITH THE **ELECTRO SENSE PROACTIVE ENERGY MANAGEMENT SYSTEM™**

EQS Energy introduces the **Electro Sense Proactive Energy Management System™** for the control of building lighting systems. **EQS Energy** creates considerable savings of up to 85% of the total cost of electricity used in lighting for its customers. Reduced consumption of electricity by the lighting system will create a massive savings on the overall electricity bill.

WE ARE COMMITTED TO:

- Helping customers achieve maximum profitability by reducing the operating cost of their facilities.
- Providing outstanding customer service and support before, during and after installation.

LIGHTS AND AIR-CONDITIONING ARE CONTROLLED



HOW DOES IT WORK?

When you walk into a room the sensor detects you and turns the lights and air-conditioning on.

Each sensor has a built in timer (which is adjustable) defaulted to 10 minutes.

When there is no movement detected by the sensor the timer starts counting down. If any movement is detected before the timer gets to zero, the timer resets and starts counting down again.

As soon as there is no motion detected for 10 minutes the lights and air-conditioning are shut off.

It's like having an invisible person walking behind you turning off the lights when you leave.

- Helping South Africa conserve energy and prolong its energy supplies as well as reducing your Carbon Footprint!



OCCUPANCY SENSOR



SENSOR TECHNOLOGY

Passive Infrared

Our sensors utilise a (PIR) dual element detector located behind a multi-segmented Fresnel lens with 1400 switching zones able to detect fine finger movement. Each lens segment generates a pair of collector beams. As heat given off by the human body moves in and out of the beams, the detector "sees" this and triggers the occupancy mode.

Microphonics™

Microphonics™ technology incorporates a microphone with the PIR detector, providing an ideal solution for areas with obstructions like bathrooms with stalls or open office cubicle areas. This Passive Dual Technology (PDT) first detects motion using the PIR and then engages the microphone to listen for continued occupancy. Sophisticated circuitry tunes the sound detection to sudden noise changes only and filters out the background "white" noise making it able to detect a human presence regardless of motion.

Hi-Frequency

Cutting-edge high-frequency sensors (HF) invisibly conceal inside the ceiling and instantly respond to the tiniest movement regardless of temperature and direction of movement and automatically switch on the lights.

FOR MORE INFORMATION

Website:	www.eqsenenergy.com
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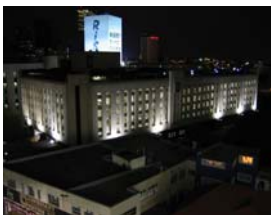
EQS Energy

The power to save

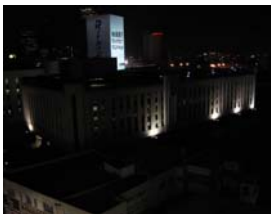
CASE STUDIES



Standard Bank, showing its commitment to saving energy and helping prolong the South African energy supply, recently decided to install the Electro Sense Proactive Energy Management System™ in two of its multi-story downtown Johannesburg car parkades. The effects of the installation are not only seen by Standard Bank in reduced energy usage and operating costs but can also be seen by thousands of motorists every day on the M2 highway that passes close by. Standard Bank will save over R2.3M in electricity costs over the next 10 years just by turning off these car parkade lights when they



Before




After

Dimension Data The Campus - Bryanston

Number of sensors installed:	2,750	
Savings per month:	R 160,000	
Savings over 10 years:	R 23,500,000	
Average saving predicted:	67%	
Average saving achieved:	67%	


BCX - Midrand

Number of sensors installed:	902	
Savings per month:	R 69,800	
Savings over 10 years:	R 10,866,500	
Average saving predicted:	67%	
Average saving achieved:	70%	

Bytes Technology - Selby

Number of sensors installed:	359	
Savings per month:	R 21,600	
Savings over 10 years:	R 4,040,800	
Average saving predicted:	67%	
Average saving achieved:	65%	

Gold Fields - Head Office

Number of sensors installed:	253	
Savings per month:	R 12,863	
Savings over 10 years:	R 2,340,000	
Average saving predicted:	67%	
Average saving achieved:	74%	

Anglo American - Head Office

Number of sensors installed:	2,282	
Savings per month:	R 116,433	
Savings over 10 years:	R 15,137,930	
Average saving predicted:	67%	
Average saving achieved:	69%	

SOCIAL & ENVIRONMENTAL SAVINGS GENERATED EVERY MONTH

THE BEST WAY TO MAKE A KILOWATT-HOUR IS NOT TO USE IT IN THE FIRST PLACE

AS OF 4 August 2008 WE HAVE SAVED:

SUPPORTS	45,227,821	kWh
	6,180	LOW INCOME FAMILIES
WATER FOR	57,439,333	(l) WATER
WE HAVE SAVED	37,768	PEOPLE
WHICH PRODUCES	22,161,632	(kg) COAL
STOPPED EMISSIONS OF	5,998,114	(kg) ASH
	341,992	(kg) SULPHUR DIOXIDE - SO ₂
	160,559	(kg) NITRIC OXIDE - NO _x
WE HAVE ELIMINATED	44,232,809	(kg) CARBON DIOXIDE - CO ₂

WHICH EQUATES TO:

COMPLETE REMOVAL OF	14,323	CARS OFF THE ROAD OR
CO ₂ EMISSIONS FOR	99,416	INDIVIDUAL PEOPLE OR
	2,750	TREES TO REMOVE THE CO ₂



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Energy Company of the Year 2006

from the Southern African Association for Energy Efficiency (SAEE)

Commercial Category Winner - 2006 & 2007 *eta Awards* - For Energy Efficiency

Endorsed by the Department of Minerals and Energy & Eskom

