

Cost reduction by energy efficient method with LED illumination and the total support of air conditioning and its maintenance.



STAR TECHNOS

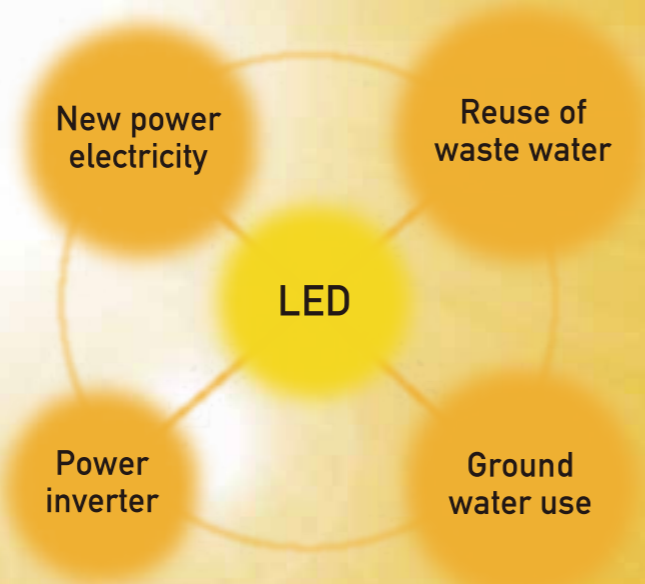
Company Profile



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STAR TECHNOS LIGHT



We support to inverter of the power from the saving energy with the LED light and, from the total suggestion such as photovoltaic power generation, the use of groundwater to construction, do suggestion most suitable in total in every scene. In addition, we perform management, the check of the facilities and realize the most suitable maintenance including the safe environmental offer for comfortable environment, relief.

Introduction example

Rationalization of the energy cost is achieved.

LED Of course an indoor fluorescent lamp and down light, I make every illumination a mercury lamp, the drawing card illumination, floodlight LED.



Gas station

The LED having a long life has a long operation time for illumination, and, in the place where the exchange work at the high place occurs, there is a merit except the electric bill reduction a lot.

Test calculation sample

| | Conventional illumination | LED |
|--------------------------------|---------------------------|------------------|
| Canopy mercury lamp | 400w×20=8000w | LED100w×20=2000w |
| Yard lamp | 400w×4=1600w | 79w×4=316w |
| Indoor fluorescent lamp | 40w×20=800w | 18w×20=360w |
| Total electricity consumption | 10,400w | 2,676w |
| Yearly electricity consumption | 56,940kwh/year | 14,651kwh/year |
| Yearly cost | 1,252,680jpy/year | 322,324jpy/year |

The annual reduction cost. 930,356jpy/ year

Power inverter



The energy saving system which changes number of revolutions with the inverter, and reduces useless power

It is large scale commerce to unfold in Japan. We can anticipate the reduction of the large electricity rate by variableness automatically pointing at frequency, and controlling the pumps such as an air conditioner or the fan. Mainly on a part as for the illumination for common use a down light, a fluorescent lamp LED. Inverter of the air conditioning was congenial to becoming it, and there was a

Ground water use



We dig a well in the site of the customer and realize the reduction of water supply charges by a film processing it.

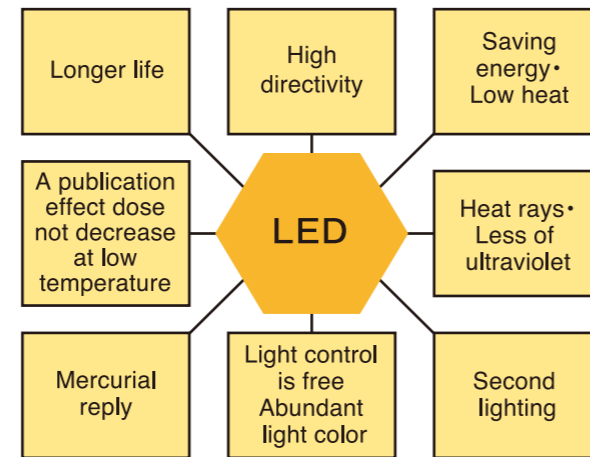
It is the general medical facility where old man welfare institutions were provided along with a hospital. We introduced a film processing plant using groundwater into the reduction of waterworks and secured the preparation as the water source for the disaster with a cost cut. Furthermore, we make pumps such as the air conditioning inverter and make the illumination of the other common space LED and perform an energy cost cut with 40 million yen a year in conjunction with the reduction of waterworks generally.

LED business

LED means Light, Emitting, Diode. It is abbreviated three initials each, and is kind of the semiconductor which emits light when we wash down electricity. It is called the light emitting diode and have a few superior good point in the sources of light such as the conventional fluorescent lamp or incandescence ball.

Because we will not be able to produce the conventional illumination using mercury from reduction of the environmental load, a shift to LED advances.

We handle various kinds of maker and perform section of apparatus which is most suitable for the facilities, use a applications introduction purse. Of course suggestion and setting construction are possible.



LED lineup

Base light LED

Straight tube LED...We realize superior energy saving by the substitution from a fluorescent lamp. It becomes the base of various facilities including the office and can anticipate a big effect because the lighting time is long.



Introduction example

| Light source | FLR fluorescent lamp | Straight tube LED |
|--------------------------|----------------------|--|
| Apparatus | | |
| Number | 80 | 84 |
| Illumination | About 1000 IX | More than the same class About 1100 IX |
| Electricity consumption | 47.0w | 18.5w |
| Power consumption/year | 17,292kWh | About more than 61% reduction 6,807kWh |
| CO2 emission/year | 8,421kg | 3,315kg |
| Electricity charges/year | 466,890yen | 183,776yen |

※It varies according to a product.

Approximately 61% of energy saving is possible in higher than brightness same class than FLR fluorescent lamp

There are a module type, a burglary square type, a straight type, the line illumination other than an intuition type, too.

Down light • Spotlight LED

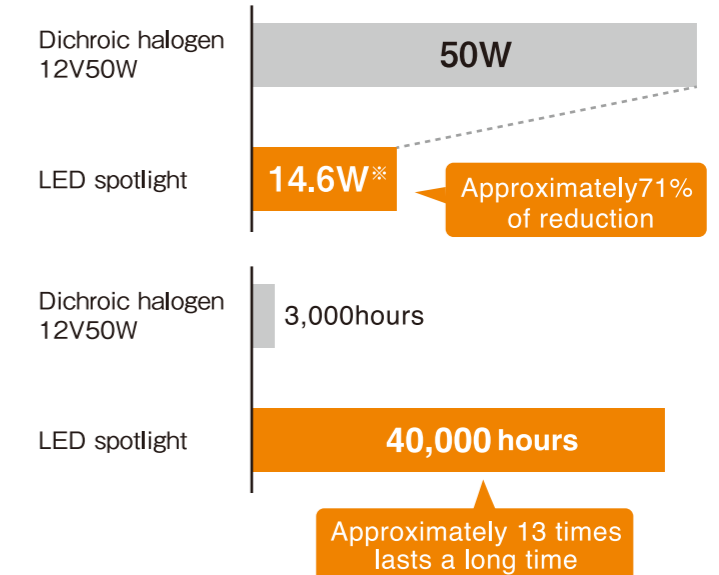
Dichroic halogen bulb...life is short, and is expensive can anticipate early investment collection by switching to LED. For example, I can reduce power consumption approximately 71% as follows in comparison with conventional halogen 12V50W, and there is life more than 10 times.

※It varies according to a product.



There are other base down lights, a universal down light.

Introduction example ※It varies according to a product.



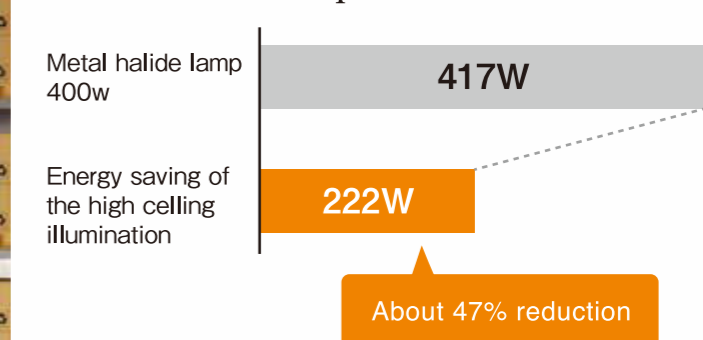
Facilities • Exterior illumination

Energy saving of the high ceiling illumination...the high ceiling illumination contributes become it. We cope with substitution with the existing illumination by lightweight. It is recommended for the installation to the high ceiling such as a factory, a warehouse, commercial facilities. We reduce the exchange expense of high place and the difficult place that are apt to become expensive by longer life as well as power consumption.

※It varies according to a product.



Introduction example ※It varies according to a product.



In addition, there are a lamplight device, a canopy light, a crime prevention light, a direct joining straight type. We can provide special illumination LED setting appliance, various dimmers and sensors, too. Specifically, please refer

Handing maker

IWASAKI ELECTRIC ENDO lighting ODELIC IRIS OHYAMA TOSHIBA SHARP Panasonic

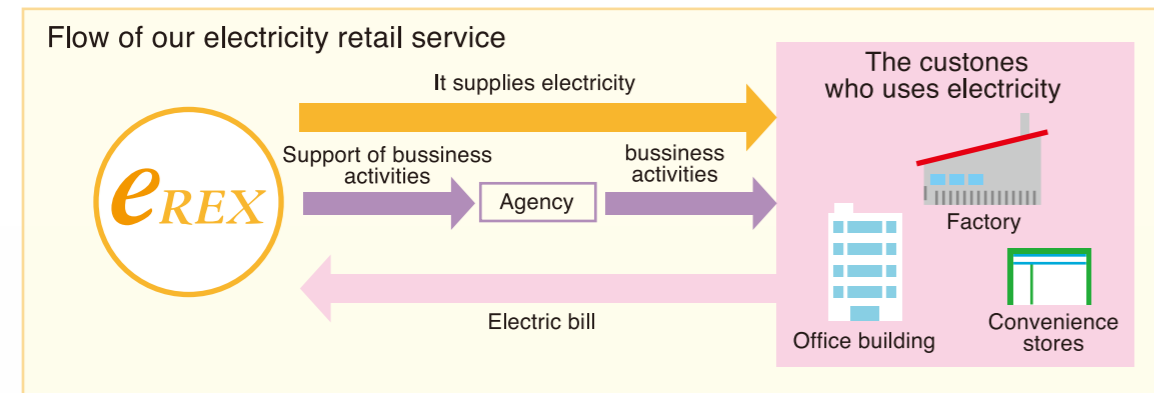
Power inverter

Based on power being proportional to a cube of the number of revolutions by changing the number of revolution by load properties of a fan and the pump, we change number of revolutions by inverter, and the inverter control system is an energy saving system reducing useless power.



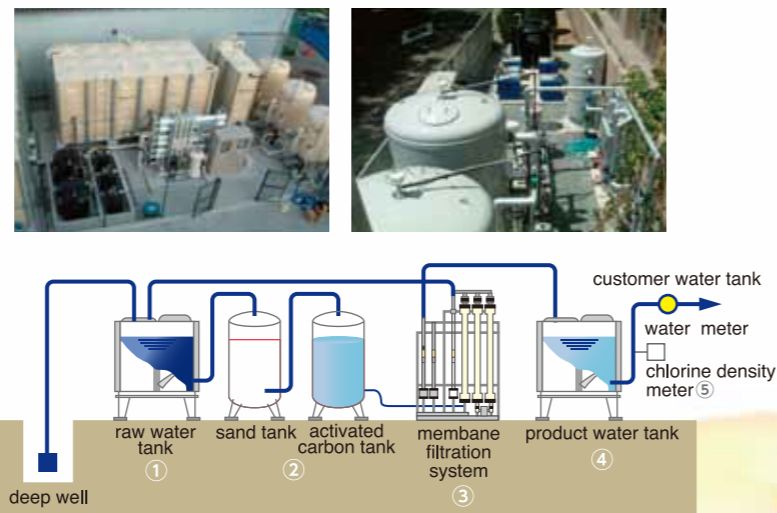
New electricity

In 2013, a revision of Electricity Enterprises Law that put a detached room in the field of vision for complete liberalization and shipment train of the electricity retail was decided. By electric utility deregulation, consumers became able to choose the electric purchase. We perform first impression duties of EREX Co.,Ltd (Tokyo Stock Exchange,Inc.) In a business area of Tohoku Electric Power Co., Inc., Tokyo Electric Power Company, Incorporated, Chubu Electric Power Company, Incorporated, The Chubu Electric Power Co., Inc., Kyushu Electric Power Company, Incorporated, I recommend the supply (electricity retail) of the electricity that is cheaper than a general electricity company for consumers of the special high pressure, high pressure such as government offices or the private enterprise.



Groundwater plant

We pay a water supply, a sewer rate as water supply changes, but I dig a well in the facilities of the customer and usually make it becomes possible to drink which met a drink standard by filtration processing it. Because it becomes the form to have you buy drinking proper become proper become processing water by 20%-50% of until price of the public water supply in the case of a plant rental, it is 20%-50% of reduction without initial cost. Furthermore, in the case of new construction, I contribute to reduction of the initial cost because we bear a part of the building costs including the cistern receive. Besides, it becomes the safe and delicious water and takes part in business improvement, and it is for anti-disaster measures in much Japan of the earthquake. (We may assume water for industrial use, others a water source.)



Corporate Profile

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