

## Big energy saving by one of the largest solar power systems in the prefecture.

Nara, Japan



### "Environment-friendly" factory by solar power system and LEDs.

Takatori Corp. develops mass-production precision machinery for thinly slicing the semiconductor material used to make solar panels and LEDs, and boasts the top share of the world market for that kind of equipment.

Their new plant, which was built with "environment-friendly" concepts, has one of the largest solar power systems in Nara Prefecture. For the lighting as well, they went with LED products because of the promising energy-savings. As a result, they expect to reduce their CO<sub>2</sub> emissions by 80 tons or more a year.

## The roof of facility is covered in 1,232 solar panels.

The entire roof from corner to corner is covered in "Polycrystal 227.3W" series solar panels – 1,232 (about 280 kW total) to be precise. They are part of one of the largest solar power systems in Nara Prefecture (as of March 2012).

## CO<sub>2</sub> reduction of about 2,408 t a year and about 90% of the administrative building's power consumption covered.

The first floor of the factory building has ceilings of about 11 m in height and somewhere around 150 "2000 LED Downlights" that are equivalent to 400 metal halide lights. While ensuring 900 lx of brightness, the ceiling lights consume about 59% less power than HID400 lighting fixtures\*.

On the second floor of the factory and in office areas, about 700 "LED Base Lights with Straight LED Lamp" were introduced. Moreover, as another layer of energy efficiency, the second floor of the factory divides the lighting into 16 switch-controlled blocks, so that only the necessary areas need to be lit.

\* Comparison between Panasonic's HID400 Downlights and LED2000 Downlights

Solar panels on the roof



LED base lights in office areas



LED downlights in the factory building 1



LED downlights in the factory building 2



### Installed Products



Solar Power System



LED High Bay



LED Base Light

