

Press Release

January 17, 2011

A landscape improvement and Capital investment for conservation of energy in Nara campus

We have the pleasure to inform you that we have made a landscape improvement and also decide capital investment for conservation of energy in Nara campus No.1 Plant (Kitakoriyama-cho, Yamato-Koriyama City, Nara).

1. Replacement of an identification sign on administration building rooftop (executed on December, 2010)
Instead of red logo on the white background, we have renewed to stainless logo which stand out against brown background and it blaze out in red during the night time. By changing the light to LED from neon, it consumes less than one-fifth the power; cut back electricity by 26,000kWh per year and carbon dioxide by 11 ton per year with low cost and longer operating life.

Before



After



2. An installation of solar power generation device next to employee parking lot located west side of administration building and benefit facilities for employee (scheduled completion date March, 2011).

①An installation of solar power generation device and battery storage device

We will place solar power generation device that is clean and earth-friendly in Nara campus followed by Iga campus. Its device has 30kW output power that is combined by Germany firm a+f's(a subsidiary of Gildemeister AG) solar system which tracks the sun's position and Mitsubishi Electric's solar panel. In addition, electric power storage "Redox flow battery" made by Austria firm Cellstrom (a subsidiary of a+f) will also be installed and used as employee's benefit facilities' electric and light for parking lot during the evening.

In accordance of this installation in Nara, total of 96,000kWh electric-generating capacity and 41 ton carbon dioxide per year will be reduced by Mori Seiki as a whole.

● A solar power generation device

Generation capacity : 30kW × 1 Unit (about 32,000kWh / year)

Equipment : Solar panel(Mitsubishi Electric), solar tracking system(a+f SunCarrier260)

CO2 reduction :about 13.6 ton / year

● Redox flow battery(Cellstrom product, cellcube FB10/100)

- Principle : one of secondary battery, charge/discharge are done by Ion redox reaction that is circulated through liquid solution.
- Purpose : the device will storage the power during the daytime in the battery and make up the deficiencies during the evening hour when it is unable to generate electricity.
- Specification : charge capacity 100kWh, output voltage single phase 200V
- Measurement : 4500mm × 2200mm × 2400mm(height) Weight: 10 ton

②2 court for Tennis/futsal as a benefit facilities for employee.

Total expense of landscape improvement and capital investment for conservation of energy took about 130 million yen. Mori Seiki will continue to be proactive in landscape improvement and an approach on conservation of energy.

Solar power generation device and Tennis/futsal court(rendering)



Redox flow battery(Cellstrom product, cellcube FB10/100)

