

# Elaborate diagnostic checks and accumulation of meticulous energy saving measures

01

**WIN-W** : Sumitomo Electric Wintec(Wuxi) Co.,Ltd.

## Detailed diagnosis and conference calls support energy saving activities



**Wang Ya Fei**

Section Manager of Machinery Section, Production Department

Having founded in Wuxi in 1994, our company manufactures magnet wires for air conditioner compressor motors and in-vehicle electric components along with ultrafine wires for watch. As we need to use enameling oven for the production process, electricity charges characteristically occupy a high proportion of our costs. We underwent energy saving diagnosis and have been committed to a wide range of energy saving measures in response to the results, including using inverters, reduction of lighting devices by installing a sunroof and adoption of high-efficiency motors. In 2014, we installed outside air intake equipment to be used in winter at our ultrafine wire plant to stop the use of air conditioners and lower the load. The enameling oven are now covered with locally procured nano materials to improve the heat insulation effect.

We have made such various efforts to meet the target of reducing energy consumption by 4% year-on-year, and achieved the target in the three years to fiscal 2015. We are also considering the review of the production process



Introduction of inverter

itself, and will continue to work to surely meet the target.

In particular, monthly conference calls with Head Office and Shigaraki Works of Sumitomo Electric Wintec, Inc., as well as

bimonthly conference calls involving all of the domestic and overseas production plants of the Group, are helpful for our efforts. We are pleased with the company climate that ideas on improvement provided by production staff are carefully examined by Head Office.



Adoption of high-efficiency motors

02

**SPW** : Sumiden Powder Metallurgy (Wuxi) Co., Ltd.

## SPW not only works to save energy in its plant but also helps local community reduce environment impact



**Liu Yun Zhou**

Director, Vice General Manager and General Manager of Manufacture Division

**He Wen Jing**

Section Leader, Safety Environment Department

Our company was established in Wuxi in 1995, and manufactures and sells sintered products used for engines and transmissions of cars, compressors of air conditioners and other devices.

We have taken energy saving measures including introduction of LED lamps for ceiling lighting of the plant and use of waste heat from circulating water of sintering furnaces for heating water in shower rooms for employees. In 2014, fluorescent lamps in the magnetic flaw detection room were replaced with LED lights, which did not only reduce power consumption but also suppressed temperature rise in the room because LED lights emit no heat. As a result, electricity use for air conditioning in the room was also reduced. Marking 20 years in business, our company will renew the sintering furnaces and air conditioners. We consider that there is room for the



Introduction of LED lights in the plant



Use of waste heat from sintering furnaces for heating shower water

reduction of energy use through hardware-based measures. Wuxi is located near Lake Tai, and we must protect the beautiful lake. In addition to reducing environmental impact of activities in our plant, we would like to be continuously committed to protecting the environment with a strong will to help society reduce the environmental impact.

**03** SPEC : Sumitomo Electric Photo-Electronics Components (Suzhou), Ltd.

### SPEC proactively promotes energy saving and environment improvement at the same time



**Wang Guo Cheng**  
Deputy Department Head, Production Department and Manager of Production Section

**Shi Yong Gang**  
Assistant Manager, Production Section, Production Department

Our company, founded in Suzhou in 2007, manufactures optical devices and transceivers as a mass production base of optical parts for the Group, while also enhancing product development function.

We underwent energy saving diagnosis for the first time in March 2016. While we had already taken voluntary measures including introduction of LED lights and installation of double windows, the diagnosis presented very detailed data and we received specific proposals. One of the indications was that the pressure of the cooling water supplied to the plant was slightly higher than the appropriate level, and we adjusted it immediately. We also consider that there are still other energy saving measures we have not taken yet, such as introduction of inverter pumps, and aim to meet the target of reduction of 4% year-on-year with the effects of ideas for energy efficiency improvement by all means. While our company distributes T-shirts to all employees and their family members at Christmas every year, the T-shirts provided in 2015

featured the conservation of the global environment to raise the awareness among employees.

We are also actively committed to the improvement of the working environment, and respond to requests from employees wherever possible, such as measurement of PM 2.5 and carbon dioxide concentration and installation of a floor heating system in the dining room. In recognition for such efforts, we were commended by Jiangsu Province as a model company with a good relationship with employees in 2012 and also as a model company with a good relationship with the union in 2013. Our company has thus established a favorable relationship with our employees.



Adjustment of the pressure of cooling water



Constant monitoring of environmental data

#### We will take measures to further enhance our efforts and ensure achievements

VISION 2017 sets an aggressive energy saving target for manufacturing sites, which is the reduction of energy consumption per unit of sales by 20% from the fiscal 2012 level in fiscal 2017. To achieve the target, we have promoted the energy saving diagnosis program in Japan and other countries and provided follow-up support in cooperation with the respective mother factories of the business units.

Energy saving activities aim to eliminate wasteful use of resources and energy through efficient production, which will result in less CO<sub>2</sub> emissions and an improved cost structure. In addition to efforts to directly reduce energy consumption, energy saving activities also include all improvement activities that result in less energy use, such as reduction of failure and loss, improvement of production yield and other quality improvement activities and increase of the production speed and other productivity improvement activities, as well as maintenance activities to reduce facility deactivation. We promote such energy saving initiatives not only in Japan but also on a global scale.

With an awareness of COP21, we recognize that it is a social responsibility for the entire Sumitomo Electric Group to aim to reduce greenhouse gas emissions both in Japan and overseas, and the Group will continue to make concerted efforts to fulfill the responsibility.

**Hirotake Komori**  
Manager of the Energy Saving Office, Safety & Environment Department



\* The names of the departments and positions are those at the time of the interviews.