

## Project of Energy Conservation Support to an Automotive Parts Factory in Malaysia

### [Project summary]

Receiving a commission from the Ministry of Economy, Trade and Industry (METI) concerning the Project to Rationalize International Energy Use and the Project to Foster Human Resources to Promote Energy Conservation, the Energy Conservation Center, Japan (ECCJ) implemented a five-day project from February 1 through 5, 2016, for the promotion of energy conservation in Malaysia, which included the following activities.

- (1) Conducted energy conservation audit of an automotive parts factory on the request of the Energy Commission of Malaysia.
- (2) Held a seminar to introduce the latest technologies for promoting energy conservation to Energy Commission (government officials) and factory workers in charge of operation and facility maintenance at an automotive parts factory.



On-site workshop (February 1-4)



Seminar at the Energy Commission of Malaysia Diamond Building (February 5)

In response to the request of the Energy Commission of Malaysia, we held a workshop on the legal system of energy conservation, energy conservation audit of a factory, and introduced the latest technology for promoting energy conservation in the automotive sector for factory workers in charge of operation and facility maintenance at an energy-intensive automotive parts factory.

- (1) Energy audit of an automotive parts factory

In the energy audit, specialists of heat pump (HP) technologies and air compressor (AC) technologies were present. In the audit, we proposed comprehensive measures for energy conservation by improving operation and consolidating facilities. The HP team and the AC team, both participated by workers in charge of operation and facility maintenance, conducted energy conservation audit from the two perspectives of operation and facility.

1) The HP team made a survey on the actual heat volume in the process and proposed the introduction of a heat pump for heat recovery to the electrodeposition coating line; and 2) The AC team checked the air leak in the plant and the present operation status of the AC, and proposed consolidating the facilities from six to four.

- (2) A seminar to introduce the latest technologies for promoting energy conservation

A seminar was held at the headquarters of the Energy Commission targeting relevant government officials and relevant workers at universities and automobile manufacturers. In the seminar, the participants shared information on the audit results and learned the legal system of energy conservation and the latest technologies on energy conservation.

Malaysian automotive industry actively communicates with Japanese automobile manufacturers and has many workers who have studied in Japan. Since the Malaysian participants were highly interested in the latest technologies of Japan, we would like to introduce more technologies of Japan by continuing and strengthening human exchange between the two countries.