

## Training Energy Conservation Promotion Leaders in Asia

### [Project summary]

Since fiscal year 2015, the Energy Conservation Center, Japan (ECCJ) has provided Training of Trainers (TOT) to foster energy conservation promotion leaders in five countries: Mongolia, Sri Lanka, Nepal, Bangladesh and Pakistan. The training aims at nurturing leaders who play a core role in promoting energy conservation in each country. The five countries are the members of the Asian Productivity Organization (APO) consisting of 20 member nations, and the training was part of ECCJ's support for the APO. The number of trainees was about five per country. Our specific goal is to complete training on the following in mid-2017. We aim to build the foundation for the trained leaders to develop personnel who will promote energy conservation in dependently in their home countries and contribute to the advancement of energy conservation.

- (1) Create a training curriculum and a textbook and conduct training for future leaders in Japan and target countries;
- (2) Implement energy conservation activities at cooperating factories in each country based on the knowledge obtained in the training and demonstrate the achievements of the training;
- (3) Finalize the curriculum and the textbook based on the implementation results at the factories; and
- (4) Trained leaders will be able to provide training using the finalized curriculum and the textbook in their home countries. Also, utilize the achievements at the factories as specific examples for better understanding to develop more energy conservation promoters.



**Photos of the First TOT in Japan (February 2016): Trainees, instructors and lectures**

### [Project progress: Past activities and achievements]

#### **1. Survey in each country, designing the training curriculum and preparation of the textbook**

We made a survey in the target countries on the following: 1) establishment status of the systems to promote energy conservation; 2) specific public and private efforts for practical training and certification of qualification concerning developing energy conservation promoters, including the systems in 1); and 3) specific needs to foster energy conservation promoters based on the progress of energy conservation.

Based on the survey, we defined the requirements for energy conservation promotion leaders to be developed in this project. In consideration of the survey results, we designed a development curriculum and prepared a draft textbook.

#### **2. Selecting leaders to play a core role in promoting energy conservation**

From each target country, five persons were chosen from the country's Productivity Center, its subordinate companies or public and private organizations in charge of developing persons to promote energy conservation.

#### **3. First training (TOT) in Japan**

The first TOT was held in Japan in February 2016.

The training was provided using a textbook created in accordance with the training program based

on the prepared curriculum. In the training, the contents of the curriculum and the textbook were verified and an action plan was established for human resources training in each country to be provided by the trainees and the activities at cooperating factories.

In addition to a total of 25 trainees, five from each of the five target countries, 13 participants from 10 other APO member nations attended as well. The combined total became 38.

#### **4. Second training (TOT) in the target countries**

Following the training in Japan, the second training is held in the target countries. Prior to the second training, the training curriculum and the textbook are improved based on the first TOT results. The improvement is incorporated in the second training.

In the second training, the trainees, who will play a core role in promoting energy conservation in the future as energy conservation promotion leaders in each target country, are joined by local workers from the industry. Also, advice is given on-site to energy conservation promotion leaders at the cooperating factories. To date, the second training was provided in Mongolia and Sri Lanka. In Mongolia, where a cooperating factory was chosen first, a kick-off seminar was held for about 60 workers from Mongolian Productivity Center and the cooperating factory in December 2015. Following the seminar, we visited factories to offer advice on the points of improvement and the future direction of energy conservation activities. Then, energy conservation promotion leaders chosen in the country joined the first TOT in Japan and established a more concrete plan on the development of personnel to promote in energy conservation and the activities at cooperating factories. In May 2016, follow-up activities were held in Mongolia, including those described below.

- A seminar for 20 participants consisting of those from Mongolian Productivity Center and the industrial sector, including energy conservation leaders.
- Check-up of the progress of energy conservation activities at cooperating factories (three plants in the food and power distribution industries) and advice on measures for improvements including identified issues

#### **Second TOT (from May 2016) in target countries**



**Mongolia: Training (left: participants of the seminar workshop: right: seminar for factory workers)**



**Mongolia: Survey and giving instructions at cooperating factories (left: wastewater recovery facility at a food plant, right: transformation facility at a power distribution company)**

In Sri Lanka, the second TOT was held in May 2016. The Productivity Center of Sri Lanka is a large and productive organization serving as a core body leading the initiatives to foster personnel to promote energy conservation in the country.

Specific activities of the second TOT include the following:

- A seminar for about 50 participants including those from Sri Lankan Productivity Center and cooperating factories
- Check-up of the progress of energy conservation activities at cooperating factories (printing factory for newspapers, etc.) and advice on measures for improvements including identified issues

Both in Mongolia and Sri Lanka, the participants had active discussions led by selected energy conservation leaders. It was a fruitful experience for all relevant organizations to take one step further.

Through these activities, ECCJ supports energy conservation in target countries and cooperates in fostering human resources to promote energy conservation.



**Sri Lanka: Training (left: participants of the seminar, right: lecture)**



**Sri Lanka: Survey and giving instructions at a printing factory (left: newspaper printing equipment, right: discussions and giving advice based on the survey result)**

#### **[Future plan]**

We plan to implement the second TOT in the target countries including those other than the abovementioned ones. While finalizing the textbook reflecting the achievements of these activities, we will support energy conservation promotion leaders fostered in the training in establishing a plan to develop more energy conservation promoters in respective target countries through consultation and advice.