



INDONESIA CLEANER PRODUCTION CENTER

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About Indonesia Cleaner Production Center (ICPC)

Established as *Pusat Produksi Bersih Nasional* in 2004, initially it aimed to support development and implementation of cleaner production in Indonesia. Cleaner production in Indonesia has been introduced since 1993 by *Badan Pengendalian Lingkungan/BAPEDAL* later on changed to Ministry of Environment. At the beginning, ICPC supported by donor-funded project from Germany, Norway, etc. In 2014, ICPC was renewed with collaboration between Ministry of Environment and Chamber of Commerce (KADIN). ICPC since 2015 is a UNIDO's national implementing partner for Indonesia Resource Efficient and Cleaner Production Project (RECP) in partnership with Ministry of Industry, and hosted by Ministry of Environment and Forestry and Ministry of Forestry with funding support by Government of Switzerland. ICPC is strengthening the institution to becoming an independent institution by establishing a legal institution in the form of *Yayasan Pengembangan Produksi Bersih Nasional*.

1. RECP Policy

1) RECP to Strengthen the Implementation of Environmental Policy through PROPER



Meeting with PROPER team

On 10 February 2017, a consultation meeting in Jakarta was organized on how to utilize RECP for strengthening the implementation of environmental policy and enhancing the Environmental Performance Rating Program for Companies/Program Penilaian Peringkat Kinerja Perusahaan (PROPER) in Indonesia. The meeting was attended by PROPER team of MOEF, Standardization Division MOEF, UNIDO and ICPC.

The meeting focused on options of policy support activities, which PROPER and ICPC able to synergize. Some alternative options were among others assisting writing compelling business cases using PROPER data and information relevant to the sectors and regions covered by RECP programme; supporting socialization of PROPER in connection with RECP programme activities; and identifying support needed by companies under Red/Black PROPER rating in line with RECP programme. In-depth meeting will be held to narrow down options of policy support activities and to start the coordination of the agreed policy support activities.

a) RECP Concept Awareness for PROPER Participants

As continuation of RECP – PROPER meeting, the project through ICPC has given opportunity to share benefit and opportunity of RECP concept as implemented by industries to PROPER audience. It was held twice during 2017, where the first held in Bandung attended roughly 200 industries and second was in Jakarta attended by around 200 participants.



Workshop on SDGs achievement

industries and private enterprises connected into a policy made by the government and global initiative such as SDGs.

2) Workshop on Standardization and Partners' Collaboration in Achieving SDGs Goal 12: Sustainable Consumption and Production

ICPC was co-organized one session during the workshop “Workshop on Standardization and Partners’ collaboration in achieving SDGs Goal 12: Sustainable Consumption and Production” held in Jakarta. The session presented ICPC work and case study of green textile from a leading fashion company. The session discussed how initiatives by

2. Network & Advocacy

1) Indonesia Resource Efficient and Cleaner Production Forum-Expo 2017



Panel discussion on RECP Expo and Forum 2017

Indonesia Cleaner Production Centre (ICPC) jointly with Ministry of Environment and Forestry (MoEF) and Ministry of Industry (MoI) used the momentum of the Earth Day, to hold Indonesia Resource Efficient and Cleaner Production Forum-Expo 2017 on 26-28 April 2017 in Manggala Wanabakti, Jakarta. The aims of the forum-expo are to showcase the achievements of companies/industries in implementing RECP and benefits/added value gained by companies/industries; to invite companies/industries to move forward the achievement of sustainable development goals 12 concerning sustainable production and

consumption patterns (SDG 12 SCP) and circular economy; and to stimulate and promote RECP for companies/industries that have not yet implement RECP in their business activities as well as to foster adaptation and adoption of RECP methods, policies, practices, and technologies in Indonesia.



Exhibition during RECP Expo and Forum 2017

The forum-expo consists of various activities, such as: exhibition, environmentally friendly products presentation, talk-show, environmentally friendly technology live audit, master class, and many more. There were 15 discussion session led by 33 resource persons. One masterclass session was organized by UNIDO/RECP Programme as part of project contribution in this event. UNIDO Chief Technical Advisor Permod Kumar Gupta delivered an introductory training on RECP methods and practices in this master classes (RECP Master Class).

2) Signing Ceremony of PPBN's Deed of Establishment

Pusat Produksi Bersih Nasional/Indonesia Cleaner Production Centre (PPBN) continued expanded its wings within the industrial and environmental scope focusing on strategic plans, economic instruments, environmental policy issues and the development of clean production networks. PPBN strengthened its position by legalizing its institution under the Association's Deed of Establishment of Yayasan Pengembangan Produksi Bersih Nasional/National Cleaner Production Development Foundation.



Signing ICPC's deed ceremony



UNIDO, MOEF, SECO and ICPC group photo

The signing ceremony was held on 12 October 2017 during the second series of Training of Trainer (ToT) on RECP in Jakarta. Becoming a foundation is a first step for PPBN to contribute in development of cleaner production practice and policy in Indonesia as well as to the achievement of Sustainable Development Goals and RECP Programme in Indonesia. Currently, official address has been decided and bank account and tax number are being registered.

3) Perkumpulan Ahli Efisiensi Sumber Daya dan Produksi Bersih (PAESPBI) Launching

During the RECP forum-expo on 26 April 2017, ICPC also launched Perkumpulan Ahli Efisiensi Sumber Daya dan Produksi Bersih Indonesia (PAESPBI/RECP Experts' Pool) with its founders/initiators, management committee, program plan established, and open the initial registration to be its members. At the end of the event, initial 93 people registered to be PAESPBI members and by the end of the year, there were 114 registered members. It would be continuously expanding throughout the coming year. PAESPBI is chaired by Mohammad Helmy, a solid waste expert and retired Ministry of Environment.



Founding members of PAESPBI were congratulated by Minister represented by Minister' Expert Staff

3. RECP Knowledge management

As part of PAESPBI's effort to actively promote and apply Resource Efficient and Cleaner Production (RECP) concept and practices, as well as to improve experts' competency in RECP related field, a regular thematic discussion is held by PAESPBI secretariat every three months. All PAESPBI member could use this forum to share knowledge, gets inputs, and decide the relevant topic to be discussed in the next meeting.

1) Sharing Financial Modelling for Implementing Resource Efficient and Cleaner Production

As part of PAESPBI's effort to actively promote Resource Efficient and Cleaner Production (RECP) concept and practices, as well as to improve experts' competency in RECP related field, a regular thematic discussion is held by PAESPBI secretariat every every once in a while.

The first thematic discussion was held on 16 November 2017 in Jakarta with the topic of "Financial Modelling for Implementing RECP". Aris Ika Nugrahanto, national energy expert from UNIDO shared financial analysis whether an activity can be financed. This financial analysis can assist companies in demonstrating the feasibility of a program or technology related to RECP.



Sharing on life cycle costing and financial

The sharing session was attended by 30 participants including MOEF staff and PAESPBI member. The session highlighted that least price of equipment may not representing the benefit over the long-run and sustainable use of resources. Instead, one should calculate and consider life cycle costing before purchasing any equipment.

All PAESPBI member could use this forum to share knowledge, gets inputs and updates, and decide the relevant topic to be discussed in the next meeting.

2) Green Productivity Basic Training

Green Productivity (GP) has been associated as one tool to improve productivity along the supply chain while conserving environment. Indonesia Cleaner Production Center (ICPC) in cooperation with Trisakti University organized one-day Green Productivity (GP) basic training on 13 December 2017 in Jakarta. The purpose of this training activity was to provide an understanding of GP concept so it will

raise awareness of the importance of GP implementation in each production stage. It was aligned with global issues and stakeholders' demands i.e. having efficient, quality and environmentally friendly production processes.



Group discussion and presentation

The training was attended by 21 participants from different background such as consultant, academician, researcher and private sector. Implementation of GP will bring a lot of benefits, among others, improve cost efficiency, business competitiveness, innovation, and preserve the environment. It was expected that participants can to guide behaviour change within their organization and make GP entrepreneurs as agent of change. Undertaking the training, ICPC has learned how market demands of typical training topic of training as well as to exercise in organizing paid training.

4. RECP Club

RECP club is a combine approach of RECP methodology and concept of Quality Circles. These concepts were extended from the team being a group of people from various departments of an Industry to a group of entrepreneurs (from different company) wherein they will discuss about the areas available for RECP. Realizing the practical difficulties involved in applying this concept on their own, facilitators were appointed and trained by RECP project who facilitate the club meetings and guide the member to integrate and adopt the concept into their work place.

1) RECP Club Awareness Workshop for Tourism Sector

Indonesian Cleaner Production Centre (ICPC), jointly with the Ministry of Environment and Forestry (MoEF), the Ministry of Tourism (MoT), and the United Nations Industrial Development Organization (UNIDO) organized RECP club awareness workshop for tourism sector on 6 June 2017 in Sleman, Yogyakarta. The workshop aimed to inform potential RECP club participants about RECP club concept, experiences, and benefits for tourism enterprises. RECP club approach, techniques, and methodology were also briefly shared.

Total of 52 participants from tourism sector stakeholders, including representatives of hotel and restaurant associations, suppliers, national and regional government attended the workshop. 6 units from Magelang tourism industries confirmed their interest and agreed to cooperate during workshop. The workshop then followed by quick scan visits to 5 potential units from 6 to 8 June 2017 to assess the RECP potential, collect preliminary data (whatever available) such as electricity, water, gas consumption, occupancy rate as well as waste treatment and to provide checklist of information to be collected.

After RECP Club Awareness Workshop, project continued its coordination with Sleman Tourism Office, regional (Magelang) facilitator of Ministry of Tourism, and Sleman-Magelang tourism stakeholders, resulting the establishment of 3 club in each regency (2 in Sleman and 1 in Magelang). Project then hired RECP club facilitator to manage 2 club in Sleman.

Table 1. Confirmed RECP Club Participants

Sleman		Magelang
Hotel/Restaurant	Tourism Village	Tourism Village/Handicraft
1. Hotel Aryuka	1. Tourism Village Gabugan	1. Tourism Village Wanurejo
2. Hotel Borobudur	2. Tourism Village Garongan	2. Language Village Borobudur
3. Hotel Cakra Kusuma	3. Tourism Village Pentingsari	3. Tourism Village Banyubiru
4. Hotel Tjiptorini Jaya	4. Tourism Village Pancoh	4. Tourism Village Gemari Ngawen
5. Hotel Yellow Star	5. Tourism Village Tunggularum	5. Tourism Village Jamuskauman
6. Restoran Sasanti	6. Tourism Village Tlatar Kandangan	6. Handicraft Lidiah Art

a) In-House Workshop and Kick-Off Visit for Hotel, Restaurant, and Hotel Club

In follow up to the establishment of 2 club in Sleman, RECP Tourism Club Coordinator and Facilitator organized In-House Workshop for Tourism Village Club and Hotel & Restaurant Club - aimed to inform RECP Club participants about RECP Club approach, techniques, and methodology as well as experiences and benefits for tourism enterprises. Delivered in Sleman, Yogyakarta on 19-22 November followed by site visits to participating units. During the workshop, participants selected the group leader for each club and decided the venue and topic discussion for the first RECP club meeting. The workshop then followed by site visits to club participating units to assess the RECP potential, collect preliminary data (whatever available) such as electricity, water, gas consumption, occupancy rate as well as waste generation and to provide checklist of information to be collected by facilitator before the first club meeting.



In-House Workshop for Tourism Village Club



Visited quail livestock at Gabugan Tourism Village

2) RECP Club Workshop and Coaching for Food Processing Sector



Follow up visit to noodle factory at boiler section

The workshop aimed to facilitate establishment of RECP Club for food processing sector in Cirebon area. The workshop also followed by follow up visit to respective RECP club candidate units to assess the potential of resources saving, productivity and reducing waste. The RECP Club Workshop was held 12 September 2017 in Cirebon; and follow up visit was conducted in 13 – 15 September 2017.

Two club are established in food processing cluster in Cirebon i.e., snack processing (5 members) and mango processing (3 members registered). It is apparent from the workshop and follow up visit, food processing industry especially micro enterprises still have opportunity to improve their productivity. The waste during the production, by-product underutilization, use of resources are among others areas for improvement.

a) In-House Workshop and Kick-Off Visit for Food Processing Club

In follow up to the establishment of food processing club in Cirebon, RECP Club Coordinator and facilitator organized an In-House RECP club Workshop with snack club.



RECP Club Snack Meeting

The meeting started with reflection from the previous workshop then continue to explain the operation of the club: preparation, data requirement, RECP potential analysis, identify solution and implementation. During the meeting, member shared their experience to the other, which a good indication of self-help RECP club. The owner also asked to submit material use, production, amount of waste, energy use etc in order to idenfy RECP saving potential. The workshop then followed by site visits to club participating units i.e., Mulya Mandiri (spicy stick) and Agustira (tempe chips) to discuss and update from previous visit and took more information for baseline.