EEB PLATFORM JAKARTA: PROGRESS REPORT

NOVEMBER 2016

EEB Platform Jakarta Key impacts and achievements to date

- EEB influenced Bandung city to adopt a green building code, and the Jakarta Government to commit to an improved building code.
- Holds a well-attended Network Sharing Workshop for green building professionals every 2 months.
- Contributed to the Ministry of Energy's list of energy efficient technologies that will form the basis for financial assistance.
- Contributed to the development of the Decree No. 14/2016 (June 2016) on Energy Services Companies (ESCOs) that guides public and private actors and acts as a template for the EE Performance Contract.

Energy Efficiency in Buildings Platform Jakarta (EEB Platform) is an ongoing initiative to unlock financially viable energy efficiency investments that are not currently being realized because of "non-technical" reasons.

The initiative is part of the World Business Council for Sustainable Development (WBCSD) EEB 2.0 project, and brings together key local partners that cooperate toward common objectives.

Why Jakarta?

Indonesia is South East Asia's largest energy market, consuming 36 percent of the region's primary energy in 2011. Building energy use is relatively low, at 18-20 percent of the total use in Indonesia, but has grown rapidly over the past 20 years and is considered a "low hanging fruit" for energy saving. Improved building energy efficiency could save between 15 percent and 40 percent of Indonesia's total energy usage by 2025.

Energy Efficiency in Buildings (EEB) 2.0

EEB2.0 is the second phase of WBCSD's EEB project, and is designed to overcome market barriers and create a replicable process to bring about radical improvements in energy efficiency in buildings. EEB2.0 provides markets with a neutral local platform for cooperation and action.

There are currently 10 EEB market engagements around the world. WBCSD and its partners aim to increase the number of engagements to 50 by 2020.

The WBCSD has developed an EEB methodology based on its experience from 10 engagements. The Handbook on creating dynamic local markets for Energy Efficient Buildings details this methodology and shares good practice.

EEB Platform Jakarta Summary - Objectives, Benefits & Value

Objectives	Benefits & Value for participating organizations	Benefits & Value for Society
• To mobilize all relevant actors around a neutral local platform. • To overcome the four identified local barriers to EEB in Jakarta: - lack of awareness & understanding - inadequate training and operator capacity - lack of available finance - policy complexities and inadequacies	• Networking • Raised awareness • New business opportunities	• EEB Platform Jakarta has established itself as a valuable partner to the Ministry of Public Works, and plays a crucial role in promoting more stringent regional energy codes and in involving the private sector. <u>Long-term benefits (starting to be realized)</u> • To involve other regional governments in Indonesia in the EEB initiative. EEB Platform has been organizing and/or involved in engagement forum with the cities of Jakarta, Tangerang Selatan, Surabaya and Bandung. • To involve other international EEB city groups on parallel projects with Indonesia. EEB Jakarta has commenced discussions with EEB Bangalore to conduct data center buildings baseline studies together.

ENERGY EFFICIENCY
IN BUILDINGS
PLATFORM
JAKARTA

EEB Platform Jakarta Key Facts

Launched: January 2016

Number of associate organizations: 18

Local Management: Indonesia Green Building Council, Indonesia Business Council for Sustainable Development & the University of Indonesia

“Our Association fully supports the on-going engagement provided by EEB Platform Jakarta. We believe such activities will increasingly shift the building sector away from “business as usual” practices.”

Dr. Ir. Judianto Hasan - Chairman, Indonesia ESCO Association/ APKENINDO

The EEB Platform Jakarta Approach

Following the 2-day EEB Laboratory workshop in Jakarta in July 2015, and a concluding plenary in September 2015 in Singapore during the International Green Building Conference, the EEB Platform Jakarta was launched in January 2016. Four Action Teams each work in a key area with their own short-term and longer-term objectives as part of the platform Action Plan. The Action Teams are:

- Raising awareness & understanding,
- Workforce Capacity - training & skills,
- Financing energy efficiency solutions,
- Policy and regulation.

Each team has a leader, a deputy leader and a working group that comprises of developers, investors, designers, engineers, facility operators and tenants. Dr. Idris Sulaiman, Research Associate at the Research Center for Climate Change Studies at the University of Indonesia, is the overall EEB Platform Coordinator.

The EEB Platform Jakarta has formed seven Special Interest Groups (SIGs) to focus efforts on collecting ‘best practice’ on specific building types. The SIGs are Commercial buildings, Tropical designed buildings, Schools, Universities, Hotels, Hospitals and Data Centers. The Platform has the ambition to expand its geographic influence beyond Jakarta to other major Indonesian cities, including Bandung, Surabaya, Tangerang Selatan (South) and Tangerang.

"*We are very excited to be a part of EEB as we believe it not only plays a critical role in educating stakeholders in Indonesia about the importance of building energy efficiency, but it also outlines the real steps towards implementing EE on the ground level.*"

Steve Piro, Founder and CEO of PT Synergy Efficiency Solutions

The EEB Platform Jakarta collaborates with other EEB platforms, such as Jaipur, Kuala Lumpur, Singapore, Shanghai, Warsaw and Houston, to learn from their experience and share good practice. The Platform also actively engages with local and international universities, for example by jointly organizing and participating on ‘better practice’ discussions on regular GBCIndonesia’s ‘Network Sharing’ seminars, and the ‘Built Environment Curriculum Development’ workshop, which cooperates with various international university organizations around the world.

The platform is open to any business, professional and educational organizations with several membership options.

Visit the EEB Jakarta website [http://www.gbcindonesia.org/eeb-lab] or contact Idris Sulaiman (idris@gbcindonisia.org) for further information.

Action Teams: purpose, goals and progress to date

Awareness Team

Chair: GBC Indonesia
Barriers to overcome: low awareness and understanding of building energy efficiency in Jakarta.
Purpose: to raise awareness and understanding of the multiple benefits of building energy efficiency.

Objectives	KPIs & Progress
Short-term goals Promote transparency and improve information sharing with online data collection. Engaging in Building & Construction events to share good practice to motivate action.	Launched a dedicated website: www.gbcindonesia.org/eeb-lab Collecting data for the 7 SIGs, including case study creation. Significant events organized to date: • Indonesia GBCI Opening gathering • EKONID Energy Efficiency and Renewable Energy in Buildings (EEB as Co-Sponsor) • EEB Introductory Seminar to the Tangerang South (Tangsel) Government 'Network Sharing' Workshop series for green building professionals held every 1-2 months. The workshops cover different topics and are attended by 30-40 participants. Participants are charged and receive certificates for their participation. **KPIs** • to create at least one case study for each of the seven Special Interest Group categories • to attract over 30 participants to each Network Sharing Workshop • to attract over 100 website visitors per month • at least 4 events per year with EEB-GBCI main co-sponsors (3 such events held so far)
Mid-term action plans and goals Help businesses to set up energy efficiency programs and share good practice to motivate action. • To help organizations with the business case • To implement the existing Indonesian version of the ISO 50001 Energy Management System – SKKNI • To promote the use of the EEB Toolkit • To promote the use of Building Certifications as a way to measure and verify the design and performance of buildings • Engage with other professional/industry organizations – including those that are not directly related to the Buildings and Construction sector	

Workforce Capacity Team

Chair: GBC-Indonesia / RCCC-University of Indonesia
Barriers to overcome: inadequate workforce knowledge and capacity in Jakarta.
Purpose: To develop the capacity of building operators by promoting professional certification and knowledge sharing.

Objectives	KPIs & Progress
Short-term goals To promote professional certification and greater expertise in areas such as life-cycle cost analysis.	The platform promotes professional certification through the monthly Network Sharing Workshops, the platform website and various other activities that highlight the benefits Each Network Sharing Workshop covers a specific topic, such as providing knowledge of life-cycle cost analysis. **KPIs** • At least 30 participants at the GBCI-EEB Network Sharing - Technical and Management Workshops • At least 6 universities involved in the GBCI-EEB University Network.
Mid-term action plans and goals The platform is developing a "Chiller Disclosure Project" to share energy performance data for chillers. The initiative is in response to a reluctance to share data and energy performance information, despite them being responsible for a significant proportion of energy use. Funding opportunities are currently being explored.	

Finance Team

Chair: Indonesian Business Council for Sustainable Development
Barriers to overcome: Insufficient financing opportunities for building energy efficiency.
Purpose: To promote financing for building energy efficiency projects – both public and private sector mechanisms.

Objectives	KPIs & Progress
Short-term goals Raise awareness among end-users, banking/financial institutions and the building/construction sector of: the Energy Service Companies (ESCO) model, providers of Energy Efficiency Performance Contracts (EEPC), energy efficient technologies with financial incentives the energy ministry Ministerial Decree on ESCO and EEPC. To advocate the Indonesian government to provide financing mechanisms and initiatives.	Participation in a series of workshops to discuss the content of the Energy Ministry's Ministerial Decree No. 14 in 2016 on Energy Services Companies (ESCOs) - launched June 2016. This has been followed by working with the financial services authority to organize activities to promote ESCO and EEPC models. EEB and its participants have contributed to the Ministry of Energy's list of energy efficient technologies (EETs), which will become a basis for soft-loans and other incentives. The list is based on the UK's Energy Technology Product List, and is adapted to Indonesia. The list will be published by the end of 2016 jointly by the Energy Ministry and the Financial Services Authority (OJK) for the banking/financial institutions. **KPIs** • At least one event/side-event on the promotion of the new ministerial Decree on ESCO/EEPC.
Mid-term action plans and goals On-going promotion of the ESCO/EPC model and financial incentives (soft-loan discounted interest, import-tax, income-tax and value added tax reduction for implementing energy efficiency measures in buildings.) Freeing up of finance from institutions in other ASEAN capitals, made possible by the ASEAN Economic Cooperation (AEC) Agreement. ESCO and EPC model case studies will be created in the future, along with an assessment of ESCO regulations.	

Policy & Regulation Team

Chair: International Financial Cooperation (World Bank Group-Jakarta Office)
Barriers to overcome: Unfavorable Indonesian policy and regulation concerning building energy efficiency.
Purpose: To promote dialogue on how policy and regulation can be streamlined, and to raise awareness of relevant regulations.

Objectives	KPIs & Progress
Short-term goals To facilitate dialogue between business and the Indonesian government to provide recommendations on how policy and regulation can be made more favorable to building energy efficiency. To raise awareness of relevant regulations with both the private sector and with the relevant local governments. Promote private sector needs in cities other than Jakarta and liaise with local GBC-Indonesia branches.	The EEB platform has supported the Ministry of Public Works/PUPR with the Ministerial Decree No. 2/2015 on Green Buildings, which was created to provide a framework for cities/districts to adopt greener building codes based on the Jakarta building code. The EEB Policy and Regulation Action Team has played a role in the discussions on building codes with the governments of Jakarta, Bandung, Tangerang Selatan, Surabaya and others. Bandung city (third largest city in Indonesia) adopted a new green building code in mid-October 2016, which now has a higher building Gross Floor Area (GFA) threshold levels than the existing building code in Jakarta. The Platform is intending to promote the EEB initiative to regional city governments, such as in Bandung, Surabaya, South Tangerang/Tangsel and other cities, with the potential to mobilize local action in 2017-18. **KPIs** Number of green buildings certified in cities that adopt green building codes according to the Decree No. 2/2015.
Mid-term action plans and goals To involve other regional/key city governments and the local private sector organizations in Indonesia in the EEB initiative.	