2013 Annual Meeting and Symposium
Changsha China
14-15 May 2013
Hosted by BROAD Group

The 2013 UNEP-SBCI Annual Meeting and International Symposium on Sustainable Buildings was held in BROAD Sustainable Buildings (BSB Town), Hunan Province, China. The Annual Meeting on 14 May during which the 2012 highlights were presented along with a proposed programme of work for 2013 was attended by more than 50 participants representing 26 partners organizations (list of UNEP-SBCI partners/collaborators attached) and additional invitees, including representatives of ministries and project team members. The Symposium held on 15 May attracted more than 300 participants, including Chinese authorities, NGOs, research institutions and ministry representatives from the building sector NAMA project.

Annual Meeting

A review of activities during 2012-13 was presented to the partnership, including ongoing collaborations and joint projects which contribute to UNEP-SBCI's programme objectives. Additionally, the proposed 2013 Programme of Work, which was developed around core project-based initiative was adopted and the technical and advocacy committees were selected and met to organize their respective work agendas.

Collaborations(partial listing)

Building and Construction Authority (BCA), Singapore	Since 2011, UNEP and BCA have operated under an MOU to promote further awareness of sustainable buildings in the Asia-Pacific region through reporting and advocacy. After completion of regional reporting, the first major project under this MOU was developed through 2012 and will support a donor funded UNEP project to facilitate mitigation actions in the building sector.
Mexico Green Building Council	• Project to promote further awareness of sustainable buildings in the LAC region; • Building capacity for policy support for sustainable resource management; • Developing a regional State of Play report, including six countries; • Identify Sustainable Social Housing opportunities.

International Council for Building Research & Innovation (CIB) and International Initiative for Sustainable Built Environments (iiSBE)	• Jointly develop the regional series of Sustainable Building conferences (SB13), including 16 regional conferences. • Global conference in Barcelona (SB14). • SB13 and SB14 co-organized with FIDIC

International Organization for Standardization	UNEP –SBCI is an official ISO Liaison. The Common Carbon Metric is the basis for an international standard being developed through TC59/SC17/Working Group 4 to measure and report energy consumption and GHG emissions from building operations.

Meetings

UNEP-SBCI Convened:

2012 Annual Meeting, Sao Paulo- 600 attendees in advance of Rio+20 United Nations Conference on Sustainable Development

2012 Fall Symposium, Singapore- 200 attendees at symposium, more than 600 in the International Green Building Conference

SB Conference Series

SB13 Munich	**Munich, Germany**	**24–26 Apr 2013**
SB13 Oulu	**Oulu, Finland**	**21-25 May 2013**
SB13 Vancouver	**Vancouver, Canada**	**3-5 June 2013**
SB13 Colombo	**Colombo, Sri Lanka**	**14-16 June 2013**
SB13 California	**Pomona, California, USA**	**24-25 Jun 2013**
CESB 13 Prague	**Prague, Czech Republic**	**26-28 Jun 2013**
SB13 Coventry	**Coventry, United Kingdom**	**3-5 Jul 2013**
SB13 Seoul	**Seoul, Korea**	**8-10 Jul 2013**
SB13 Singapore	**Singapore**	**9-10 Sep 2013**
SB13 Hong Kong	**Hong Kong**	**12-13 Sep 2013**
SB13 Graz	**Graz, Austria**	**25-28 Sep 2013**
SB13 Southern Africa	**Cape Town, South Africa**	**15-16 Oct 2013**
SB13 Portugal	**Guimarães, Portugal**	**30 Oct-1 Nov 2013**
SB13 Cairo	**Cairo, Egypt**	**5 -7 Nov 2013**
SB13 Manila	**Manila, Philippines**	**25-27 Nov 2013**
SB13 Dubai	**Dubai, UAE**	**8-10 Dec 2013**

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Projects & Reporting

State of Play France Report in progress. To be finalized in June 2013

State of Play-LAC
Focus on opportunities for social housing
In collaboration with:
Mexico Green Building Council, Americas Network GBCs, UNEP-Regional Office for LAC - 2013

State of Play North Africa - Mediterranean in progress for 2013

SB Protocol - *a globally* ***consistent framework*** to understand, measure and report the influence of the performance of building stock on core sustainability issues --- prepared for pilot testing 2013

Task Force on Supply Chain

Greening the Building Sector Supply Chain. This initiative, launched by UNEP-SBCI at the 2012 Fall Symposium in Singapore, seeks to identify opportunities and barriers, best practices and potential pilot projects for achieving greater resource efficiency (including energy, carbon, water, waste, and materials) in the construction supply chain. To date, the UNEP-SBCI Task Force on Supply Chain has focused on 'mapping' and identifying priorities actors, relationships and potential green interventions. Future UNEP-SBCI activities on Supply Chain will focus on key performance indicators to measure progress on greening the construction system, and policy strategies to embed greater resource efficiency in the supply chain.
Members include SKANSKA, Saint-Gobain, Siemens, Brazil Ministry of Cities, World Green Building Council, RICS, Global Building Performance Network and others.

2013-14 Programme of Work

The 2013-14 Programme of work was developed to deliver on four UNEP-SBCI Goals:

1. Provide a common platform for stakeholders
2. Develop tools and strategies
3. Establish baselines
4. Demonstrate through pilot projects

Project-based approach using four core projects/initiatives:

1. Facilitating potential NAMAs in the Building Sector
2. Greening the Building Sector Supply Chain
3. 10 Year Framework of Programmes- Sustainable Buildings and Construction
4. Tools and Metrics (piloting SB Protocol, Materials metrics study)

Ongoing initiatives such as contributions to UNFCCC negotiations, SB Conference series, etc. will continue as usual.

The various UNEP-SBCI partner committees will be engaged to provide quarterly input and feedback on the NAMA project and the development of the 10YFP. The Supply Chain Task Force will develop summary recommendations for further work streams by the Fall Symposium, and the technical committees will facilitate the pilot testing of the SB Protocol reporting framework, follow the ISO process on CCM, and identify gaps and needs for material metrics.

The 2013 Fall Symposium location and date remain to be determined (possibly in conjunction with FIDIC Centenary Conference in Barcelona in September). The 2014 Annual Meeting will be held in Quebec City in May 2014.

<u>Symposium</u>

Session 1: Urbanization and Sustainable Cities was chaired by Mr. Zhang Yue Chairman of BROAD Group. Panelists included

- Feng Lun Chairman, Vantone Holdings Co., Ltd
- Qi Hongbo, Chairman, SunnyWorld Group
- Zhou Yongzhang , Director, Zhongshan University
- He Cao Chairman, Franshion Properties

- Panelists emphasized that urbanization in China is a significant challenge but an opportunity. There is an understanding that every building will leave legacy for next generation and that it is critical 'to do' buildings right at very beginning.
- The first criteria for buildings must be on EE , but cities must also focus on EEB, and integrated urban planning; Shorten distances between cities and countryside. Cities should be closely linked to resources.

- For sustainable development, must have sustainable cities- look at transport/traffic, design/heat island effect. Population explosion, land use related to resources. Low carbon path is well known concept; reduce dependency on vehicles.
- Urbanization is also a roadmap for the country, creating opportunities for jobs.

Session 2: Promoting Resource and Energy Efficiency in Buildings was chaired by Jens Laustsen, Technical Director, Global Buildings Performance Network,

Topics/panelists:

- *Greening the Building Sector Supply Chain - Stephane Pouffary, UNEP-SBCI Chair and Dongmei Chen, Institute for Industrial Productivity- China-* Presentations focused on the opportunities to achieve greater resource efficiency (reducing the resource footprint of the construction sector). Fragmentation of sector, lack of incentives, responsibilities and indicators (especially for SME use) are critical barriers to overcome. IIP is about to launch a pilot project on supply chain management in China, which is a potential collaboration for UNEP-SBCI, following on the Task Force efforts.
- *UNEP-SBCI Sustainable Buildings Protocol- Piloting a framework for Reporting- Rodney Milford, Construction Industry Development Board, South Africa-* Presentation on the development of UNEP-SBCI protocol and preparation for pilot testing by partners and collaborators.
- *Developing Metrics for Material Efficiency, Helen Goodland, Brantwood Consulting.* Presentation on UNEP-SBCI Material Committee efforts to review metrics for materials. Key point that by 2050, the trend for embodied carbon in materials may exceed the carbon from building operations, making the focus on materials (and supporting supply chain initiatives) critical.

Session 3: The Economics of Sustainable Buildings (POLICY SESSION) was chaired by Mr. Roger Platt, Senior Vice President for Global Policy and Law, US Green Building Council

Panelists:

- Silvia Sartori, Project Leader, SWITCH Asia, European Union Chamber of Commerce in China
- ZHANG Yongming Tongji Sino-European Energy Efficient Building Training & Research Centre
- Jens Laustsen, Technical Director, Global Buildings Performance Network
- Xu Guangguo Member of Standing Committee of the Party Committee of Ningxia, Municipal Secretary of Ynchuan Party Committee
- Arab Hoballah, UNEP

- Mr. Platt presented findings of World Green Building Council's recent *Business Case for Green Buildings* report and facilitated discussion around key points:
  - Building green does not necessarily need to cost more, if the green design is integrated from beginning. Codes have become stringent, supply chains greener.
  - There is a *Perception gap* of costs for green building
  - Green buildings have generated higher sales prices, lower design and construction costs; more easily secured financing, with benefits to Developer, Tenant and Owner
  - Increased occupancy rates, lower operating costs

- Workplace productivity and health
- Risk Mitigation- reducing regulatory risk. Mandatory disclosure of energy performance can be a driver
- Need to Scale up from Green Buildings to Green Cities
- Panelists agreed there is a strong business case for EEB
- Many decision makers in building sector; issues of split incentives remain an obstacle
- Need to think more holistic- think about EE from the start of the process. Difficulty is getting an integrated team to work together.

Session 4: Policies and Strategies for Resource Efficiency and Climate Mitigation was chaired by Arab Hoballah, UNEP

Panelists included:

- Ms. Araya Nuntapotidech, Deputy Director General, Ministry of Natural Resources and Environment, Thailand
- Mr. La Tran Bac, Department of International Cooperation and Science, Technology – ISD, Vietnam Environment Administration
- Mr. Noer Adi Wardojo, Assistant Deputy for Standards and Technology, Ministry of Environment, Indonesia
- Professor Xudong Yang, Department of Building Science, School of Architecture, Tsinghua University, Beijing

- Mr. Hoballah presented an introduction of opportunities for Sustainable Building and Construction programmes under the 10YFP, focusing on resource efficiency, and continued opportunities for EE and Climate Mitigation in national strategies.
- Panelists highlighted the role of building sector policies in their national efforts, including focus on codes and targets
- Sustainable procurement and government leadership is being demonstrated in green building projects; Thailand has more than 30,000 public buildings, representing a key opportunity to promote EE.
- Vietnam is creating inventories for energy consumption, and developing national action plan for climate mitigation, including the building sector; VN also is developing Green Growth Strategy and national action plan for SCP ion preliminary stage– opportunity under 10YFP
- Indonesia engaged since 2008-09 in multi-stakeholder approach to SCP; also developed and provides tools for Energy Audits; developed standards for public housing and in development with stakeholders on broader SB policies
- Consensus among panelists on opportunities for strengthening codes, movement toward labelling, application of green building standards to achieve both RE and EE/Climate mitigation.