

Bill Sisson, United Technologies

SE4All Webinar 23 June 2015



Energy Efficiency in Buildings project (EEB 2.0)

Unlock financially viable energy efficiency investments that today are not being realized because of mostly non-technical barriers

Co-Chairs:





Core Group:





















Partners:



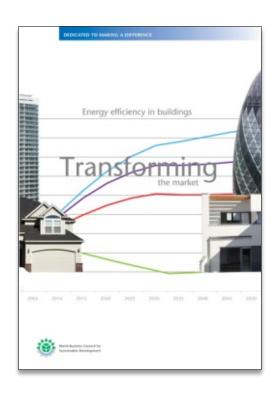


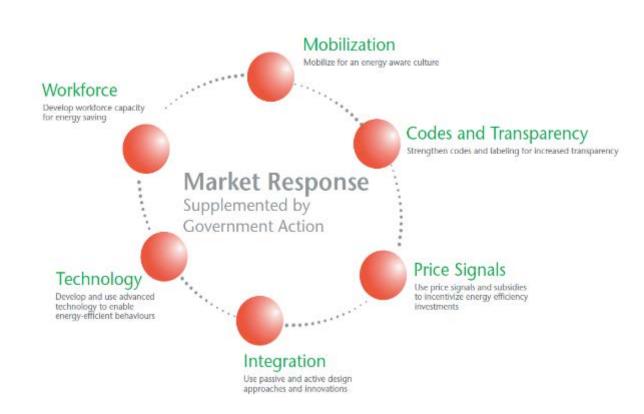






First EEB project (2006-2010) "How to" - Transforming the Market





Global <u>study</u> – action areas – business viewpoint







KANSA









eDF



And ... A Call to Take Action

ABB

Acciona

Borusan Holding C.A.

Bridgestone



MANIFESTO FOR **ENERGY EFFICIENCY** IN BUILDINGS



Buildings consume approximately 40% of all energy produced globally - more than transport or industry. Energy used in buildings is a major contribution to climate change, hence it must be addressed.

Business, public authorities, professional bodies and environmental organizations must share the task of supporting and driving the transformation of the building market towards radically lower energy use

Leadership in energy efficiency in buildings represents opportunities to reduce resource use, improve workplace productivity, and minimize impacts on the environment, all of which contribute to healthier. more sustainable cities

These collective efforts can set new sustainability standards for buildings that will incentivize investment in energy efficient buildings and will result in significant reductions in worldwide energy use and

This Manifesto and its accompanying implementation guide aim to mobilize business, governments and local authorities to improve the energy performance of their buildings as outlined in the Energy Efficiency in Buildings; Transforming the Market report.

By signing this Manifesto, the organization commits to:

- 1. Establishing a baseline of energy use in the buildings it controls and set time-bases energy and/or CO₂ reduction targets that will help to achieve transformative change.
- 2. Publish a policy for minimum energy performance levels in its buildings.
- 3. Define and carry out an audit program and implementation strategy to meet energy targets for
- 4. Publish annually buildings' energy use, CO2 emissions and progress against reduction targets, in the annual report or publicly available document
- 5. Further promote building energy efficiency among employees and other stakeholders, through advocacy, R&D, education and training.

We the undersigned, hereby pledge to the intentions outlined above.

Signature:			Date:		
Organization:			-		



BNP Paribas

Fook Tin Group GDF SUEZ Gammon Construction GHD Pty Ltd Goodyear

D Hong Kong)

ed

Cathay Pacific CEMEX

Chubu Electric Power

Chunghwa Telecom

Cimentos Liz

A call to action

Hoffmann-La Roche

Hong Kong Airport Authority

Hongkong Electric

Hongkong International

Terminals

Hang Lung

Infosys

Italcementi

+ Toolkit to plan and initiate LAFA

La Po

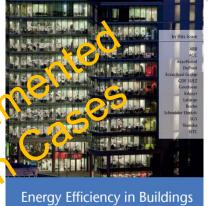
Masis Mets:

financially viable EEB investments (web tool – Dec.2015)

Philips Public Power Corporation

Nissan Novartis Novozymes

Rideau Recognition Solutions



tries. Ltd wbcsd buildings

Swire Properties Swire Pacific

Telecom Italia

TEPCO

The Link Management LTD

The Yokohama Rubber Company

Toyo Tire & Rubber

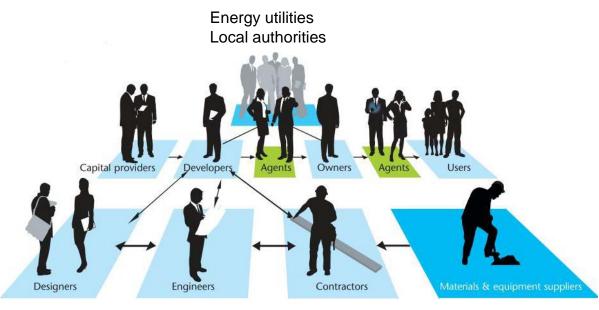
140+ signatories

VVD-000

EEB2.0: Engaging the value chain

Extend the business case (co-benefits)

Seek broad benefits, take action among:



WBCSD, 2007

Owners/Developers/Occupiers

- Asset values
- Cost savings
- Productivity, health and social *Utilities*
- Energy security
- Regulation & capital allocation
- Energy prices
- Carbon mitigation

Public Authorities

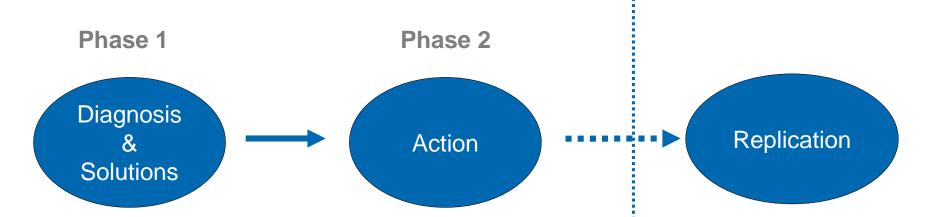
- Job creation
- Poverty alleviation
- Public budgets/taxes
- Consumption
- Competitive advantage

Financial Institutions

- Scalable investments
- Loan instruments



A Need for a Scalable Framework



EEB Laboratory

- Understanding of market situation (Barriers / Solutions)
- Identification of motivated partners (to initiate actions in phase 2)



Action plan report

Local take-over

- Practical action plans
- Launch of implementation action on key topics
- Partners' commitments

Monitoring /Progress report

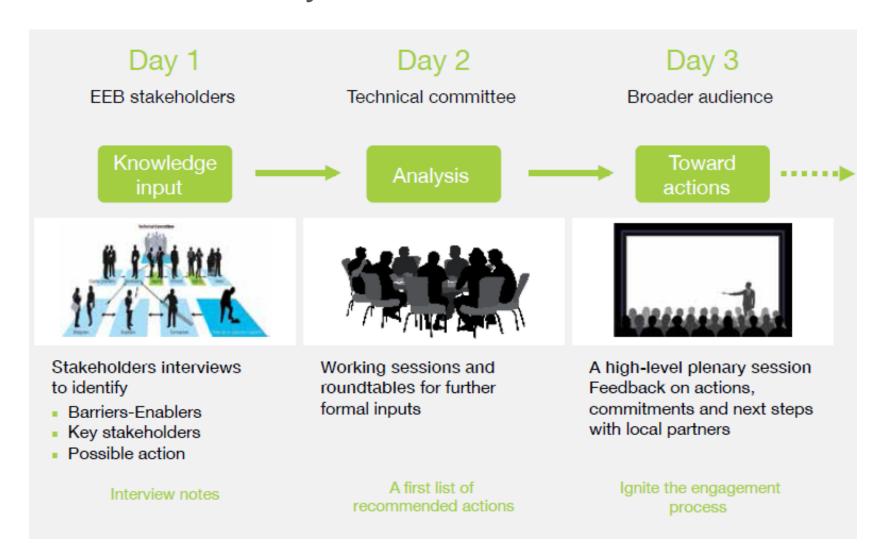
Scale-Up

- Formalize EEB lab framework
- Identify motivated partners
- Develop/disseminate best practices
- Create demand by markets

Low Carbon Technology Partnership initiative COP21 Buildings Day

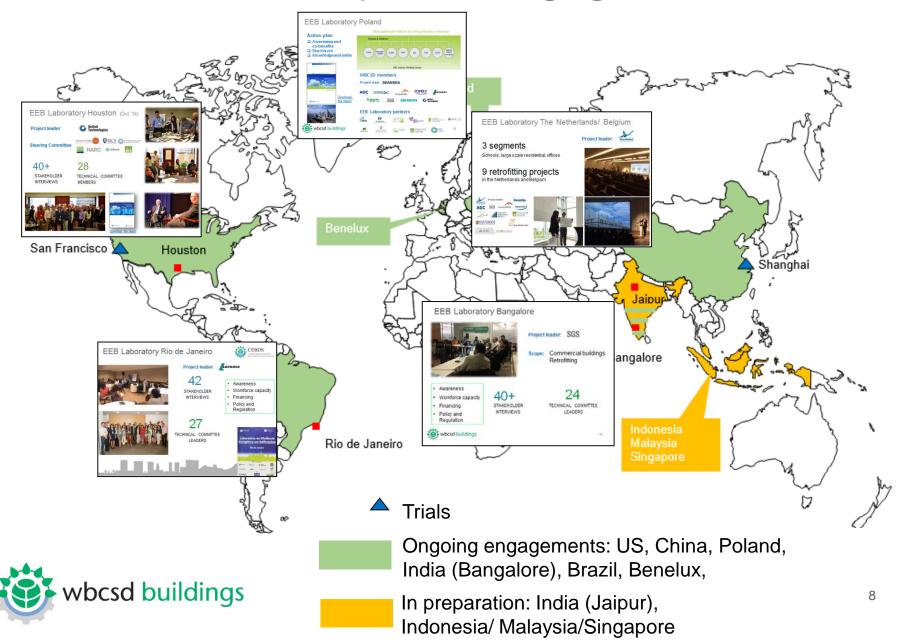


EEB laboratory





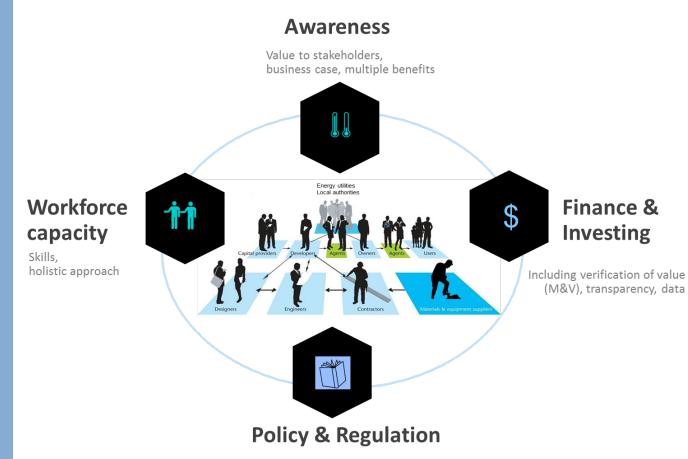
Perform market specific engagements



9 action plans...

- Houston/US
- Warsaw/Poland
- Rio de Janeiro/Brazil
- Bangalore & Jaipur/India
- Belgium/The Netherlands
- Singapore
- Jakarta/Indonesia
- Kuala Lumpur/ Malaysia
- China

to locally address Lab discovered barriers



"Energy Efficiency in Buildings – Houston" (March'15)

Action committees coordinated by



Areas of work

(right message to the right audience)

<u>Members</u>

Finance Bring PACE to the Houston market Promote the adoption of Investor Confidence Project	Ascentergy (chair) City of Houston; Thompson and Knight; Independent Consultant; McCord Development; Schneider Electric; Lionstone; Siemens		
Operations (Workforce) Develop training opportunities of building operators	Automated Logic (chair) City of Houston; Mitsubishi; McCord Development; HARC; Boxer; NRG; MLN Company; Gensler; Ascentergy; TEAM		
Competition (Policy) Advise on policies around benchmarking, building audits and operator training (City Energy Project)	Automated Logic (chair) City of Houston; Lionstone; Transwestern; Columbia Property Trust; Ascentergy; McCord Development; WHR Architects; PBK; Crimson; CPES LLC		
Communications (Awareness) Develop a communication platform - website	Shell (chair) City of Houston; Gensler; EES; JCI; McCord Development; Rice U; USBCSD; Entergy; Enterprise Realty Group; Lashley;		

ERM

By 2030, 50% of projected energy use in buildings can be avoided by action on energy efficiency in buildings



(IEA, SDSN, WBCSD)

Proposing to support Buildings Day at COP21 to initiate Scale Up commitments together with LCTPi partners

Scale up

- Shared ambition
- Convene local building market stakeholders
- Drive action plans
- Share knowledge
- Report on progress



Partners LCTPi on Buildings

- CEBDS BCSD Brazil
- Climate KIC
- Construction Marketing Group, Poland
- European Bank for Reconstruction and Development
- Global Buildings Performance Network
- International Energy Agency
- Investor Confidence Project Europe
- Ministry of Sustainable Development, France
- Ministry of Economy, Poland
- UNEP Finance Initiative
- UNEP Sustainable Buildings and Climate Initiative
- World Green Building Council
- World Resources Institute
- EEB 2.0 member companies: AGC, AkzoNobel, ARCADIS, ArcelorMittal, Engie, Infosys, Lafarge, Schneider Electric, SGS, Siemens, Skanska, United Technologies
- Interested: ICLEI, UNEP FI, Urban Land Institute

Thank you

