Energy Efficiency in Buildings 2.0
Scale up implementation
Why energy efficiency in buildings?

An energy & climate imperative

A business opportunity for growth

Investment required to deliver a 25 percent improvement in building efficiency by 2035 ($bn)

- Existing (~$1T)
  - North America: $468
  - OECD Europe: $413
  - OECD Asia: $142
  - E Europe/Eurasia: $242
  - Latin America: $100
  - Middle East: $138
  - Africa: $278

- Developing (~$1.6T): $850

Source: Rhodium Group estimates based on IEA energy projections
First EEB project (2006-2010)
“Why and How” - Transforming the Market

Global study – action areas – business viewpoint
A Call to Action

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 in buildings.

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 corresponding carbon emissions.

This Manifesto and its accompanying implementation guide aim to mobilize businesses, 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-based 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 its buildings.
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: ___________________________

140+ signatories

Toolkit to plan and initiate financially viable EEB investments

www.eeb-toolkit.com
Energy Efficiency in Buildings is the Local Opportunity
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:
Engaging the full value chain to identify benefits and unlock action

Source: Capturing the multiple benefits of Energy Efficiency, IEA, 2014
10 market engagements...

See details here and Why & How to carry out market engagements
… to address local market barriers

Awareness
Value to stakeholders, business case, multiple benefits

Workforce capacity
Skills, holistic approach

Finance & Investing
Including verification of value (M&V), transparency, data

Policy & Regulation
Codes, labelling, incentives
Engagement process

Phase 1: Diagnosis & Solutions
- Understanding of market situation (Barriers / Solutions)
- Identification of motivated partners (to initiate actions in phase 2)

Phase 2: Action
- Practical action plans
- Launch of implementation action on key topics
- Partners’ commitments

Phase 3: Scale up

EEB Laboratory
- Action plan report

Local take-over
- Monitoring /Progress report
- COP21 Buildings Day
- Commitments from EEB partners
- Online resource platform

Replication
- Formalize EEB lab process
- Identify partners to replicate
- Disseminate best practices
EEB lab concept

**Day 1**
EEB stakeholders
- Knowledge input

**Day 2**
- Technical committee
- Analysis

**Day 3**
- Broader audience
- Toward actions

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**Stakeholders interviews to identify**
- Barriers-Enablers
- Key stakeholders
- Possible action

**Working sessions and roundtables for further formal inputs**

**A high-level plenary session**
- Feedback on actions, commitments and next steps with local partners

**Interview notes**

**A first list of recommended actions**

**Ignite the engagement process**
Expected outcome of each market engagement

• An Action Plan to address market barriers (EEB lab report)

• An EEB platform made up of motivated stakeholders to take the action plan forward

• KPIs and progress reports to measure impact and results
A Scalable Franchise ...

EEB2.0: Engaging the value chain

Seek broad benefits, take action among:

Energy, Utilities, Local authorities

Extend the business case (co-benefits):

- 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

EEB laboratory

Day 1
EEB stakeholders
Day 2
Technical committee
Day 3
Broader audience

Knowledge input → Analysis → Toward actions

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Interview notes → A first list of recommended actions

Engagement Framework

Phase 1
Diagnosis & Solutions → Phase 2
Action → Replication

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

Local take-over
- Practical action plans
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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
1. An ambition
By 2030, 50% of projected energy use in buildings can be avoided by action on energy efficiency in buildings

2. An EEB Action Framework
- Engaging the full building value chain in local markets to develop action plans
- Addressing the key market barriers/enablers

3. A reporting and coordination mechanism

Low Carbon Technology Partnership Initiative on Buildings (IEA, SDSN, WBCSD)

Action Plan available here
Thank you

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