Capturing the Multiple Benefits of Energy Efficiency

Experts Roundtable on Industrial Productivity and Competitiveness Impacts

Paris, France
Monday, 27 January 2014
Nina Campbell
Multiple Benefits of Energy Efficiency

- Energy provider benefits
- Asset values
- Disposable income
- Poverty alleviation
- Health & wellbeing
- Energy savings
- Climate change mitigation
- Energy prices
- Resource management
- Development
- Energy security
- Job creation
- Macro impacts
- Public budgets
- Industrial productivity

Energy efficiency improvement
Multiple Benefits Project Goals

- Quantify the socioeconomic and environmental benefits delivered by energy efficiency improvements
- Investigate cross-sectoral linkages
- Develop the tools and methods needed to capture the range of benefits and costs
- Develop a strategy for integrating them within existing evaluation approaches
- Communicate the contribution that improving energy efficiency makes to mainstream social and economic policy
- Help countries build consensus on the value of a multiple benefits approach
Multiple Benefits Handbook Outline

PART ONE: STRATEGIC POSITIONING
- Rationale for multiple benefits approach
- Where we are now; energy savings; data challenges; existing appraisal & evaluation methodologies

PART TWO: METHODOLOGICAL TOOLKIT
- Outline for each benefit area: existing evidence; key indicators; main methodological options; default values/multiplier table; pitfalls; sample results.

PART THREE: MB IN THE POLICYMAKING PROCESS
- Integrating MB into a step-by-step evaluation process
- Adaptation to country contexts
- Communication and messaging
- Possible implications for the rebound effect
Project Progress to Date

- **Analytical scoping study**
  - *Spreading the Net: Capturing the Multiple Benefits of Energy Efficiency Improvements* (OECD/IEA, 2012)

- **Expert Roundtable on Macroeconomic Impacts**
  - With Climate Works, (Paris, January 2013)

- **Expert Roundtable on Health & Wellbeing Impacts**
  - With European Environment Agency, (Copenhagen, April 2013)

- **Expert Roundtable on Impacts for Energy Provider and Consumers**
  - With Natural Resources Canada, (Ottawa, October 2013)

- **Detailed preliminary findings on three benefit areas**
  - Reviewed by Roundtable experts
For 2014

- Experts Roundtable on Industrial Productivity and Competitiveness Impacts
  - Revise and refine Discussion Paper > Handbook Chapter
  - Seek additional inputs and guidance from expert reviewers

- Drafting of “Capturing the Multiple Benefits of Energy Efficiency: A Handbook for Policymaker and Evaluators”
  - Review by experts in IEA “Multiple Benefits Network”
  - Review by IEA member countries

- Publication & Dissemination
  - In paper and PDF form: September 2014
  - Dissemination and capacity building
  - Implementation of Multiple Benefits toolkit in real case studies
## Experts Roundtable on Industrial Productivity & Competitiveness Impacts

### Interest in quantifying non-energy benefits

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<tr>
<th>Stakeholder</th>
<th>Interest in quantifying non-energy benefits</th>
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| **Site or company level** | • More comprehensive assessment of costs and benefits of energy efficiency investments.  
• Increase benefit-cost ratios - shorter payback periods.  
• Enhanced sustainability reporting. |
| **Energy service or financial sector** | • Enhanced business models – strengthened business case for energy efficiency projects.  
• Improved bankability of energy efficiency projects. |
| **Shareholders** | • Increased understanding of how key resources affect business  
• Richer understanding of business investment performance  
• Better return on investment |
| **Programme or policy level** | • More comprehensive assessment of the cost-effectiveness of programmes or policies, justify funding and additional resources  
• Identify best options to access economic outcomes  
• Improved ability to engage industry in programmes by showing quantified benefits beyond cost reductions from reduced energy use. |
| **Wider sector or economy level** | • Justification for investing in policies to promote energy efficiency.  
• Improved decision-making basis for where to allocate resources – energy efficiency, new generation or other measures.  
• Improved international competitiveness |
Thank you

Get your thinking caps & creative hats on, we’re heading into the idea factory...