General Insights Across Sectors

- Significant cost-effective potential for energy efficiency improvement (25-30%) with existing technologies by 2020
- Realizing this EE potential crucial to mitigate climate change rapidly and cost-effectively
- Mix of policies & measures required to overcome barriers → best practice points to key policies in each sector
- International cooperation needed
  - Consolidation of best practice, tools, etc.
  - Harmonization
  - Technology cooperation
  - Support to developing countries

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Energy Efficiency in Industry & Manufacturing

- Topic: P&M applied in industry; carbon finance
- Insights/recommendations
  - Need mix of "carrots" and "sticks" to overcome barriers
  - Energy awareness low → need to promote energy management, provide simple tools
  - Need qualified professionals (incl. ESCOs) and quality technologies to lower risk, increase confidence
  - Strategy has been to focus on energy-intensive industry / major emitters, but gains elsewhere also possible
  - International cooperation needed on technology, funding sources & mechanisms and policy research & implementation

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Energy Efficiency in Buildings

- Topic: Policy options & recommendations for energy efficient buildings and sustainable architecture
- Insights/recommendations
  - Major energy savings possible now – people underestimate savings potential and overestimate cost of "green buildings" – but know-how to integrate architectural design and technology needed
  - Integrated approach is needed: building envelope, plug loads, micro-generation, occupant behavior
  - There is a need to avoid "lock in" effect of new buildings and to address EE of existing building stock
  - Building codes are important, but must be enforced, and complemented with other P&M
  - Close interaction with commercial property developers to promote voluntary action "beyond code"

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Public Benefit Campaigns for Energy Efficiency

- Topic: Raising public awareness and understanding of energy efficiency; G8 leadership; market transformation
- Insights/recommendations
  - Market transformation requires informed consumers, pioneering manufacturers, bold decision-makers, and cost-effective incentive programs
  - National leadership important to make energy efficiency popular – government has important demonstration role
  - Awareness among all segments of society and tailored information/education/training needed
  - Countries should formulate quantitative national energy efficiency strategies

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Energy Efficiency in Appliances

- Topic: S&L programs
- Insights/recommendations
  - MEPS are the most cost-effective tool to remove obsolete equipment from the market and should be implemented globally
  - Support to developing countries needed (particularly Africa)
  - Need international harmonization of testing procedures and efficiency class levels
  - Credibility of label schemes requires strong enforcement (e.g., adequate testing)
  - S&L schemes must be complemented with other P&M to transform markets (e.g., consumer information, incentives, procurement programs, utility DSM)

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Energy Efficiency in Transport

- Topic: Transport sector policies in selected countries
- Insights/recommendations
  - There is a range of drivers for P&M to promote sustainable transport (e.g., fuel cost, energy security, congestion, local pollution)
  - Co-benefits of transport sector measures (e.g., air quality, health impacts) are significant, but not always considered in transport policy decision-making
  - Energy efficiency measures (e.g., LEV requirements, use of IT in freight transport, fuel economy standards) must be integrated with other measures (efficient public transport, demand management)
  - BRT systems have been successful in a number of countries

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