

IPEEC

APERC June 2015

Supporting Energy Efficiency in Major Economies



Overview



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- Progress



About IPEEC



- IPEEC is an autonomous partnership, founded in 2009 by the G8 + 5
- IPEEC provides global leadership on energy efficiency
- It reports to G20 Summit, Clean Energy Ministerial & others



IPEEC Members



Australia





Japan





Brazil



Germany







Canada



India







European Union



Italy



Republi c of Korea





IPEEC is

a high level international forum

- Provides global leadership on energy efficiency by identifying and facilitating government implementation of policies and programs that yield high energy-efficiency gains.
- Aims to promote information exchange on best practices & facilitate initiatives to improve energy efficiency.
- Formally established in 2009 at the **G8 summit in L'Aquila**, Italy, and resulting from successive meetings of the G8 + 6 economies.

IPEEC's Vision

A world where key national policy makers view energy efficiency (EE) as a resource and implement cost effective policies to promote it.



IPEEC's Mission

Accelerating the adoption of EE policies and practices through international cooperation and information sharing on policy analysis, programs, tools, and proven practices.



Where is IPEEC Making a Difference?

- IPEEC s the only international organisation focused to EE;
- Brings together economies that are:
 - « developed » and « emerging »,
 - Energy consumers & producers;
- Is voluntary & works through partnerships & cooperation;
- Is able to partner with industry;
- Engages high-level decision makers at G20, Clean Energy Ministerial and other forums; and
- Facilitates on-the-ground implementation.



IPEEC Recent Activities 1/3

Task Group	Purpose and Scope								
AEEFM (Assessment of EE Finance Mechanisms) - Completed	 To develop an understanding of barriers associated with financing of EE & to identify strategies to overcome these barriers. To explore avenues available to national governments to promote financing of EE. To identify and assess existing building EE rating tools and instruments that enable effective implementation of EE policy measures. To analyze implementation mechanisms & assess the impacts of rating tools & other building programs. 								
BEET (Building EE Task)									
EMAK (Energy Management Action Network for Industrial Efficiency)	- To promote energy management in industry by connecting policy makers and industry practices of the connection of the c								

Cooperation

IPEEC Recent Activities 2/3

Task Group	Purpose and Scope
GSEP	- To reduce global energy use in industrial facilities and
(Global Superior Energy	commercial buildings while improving energy security &
Performance)	reducing GHG emissions.
IPEEI	- To explore the problems associated with designing and
(Improving Policies	using appropriate methodologies for developing EE
through EE Indicators)	indicators.
MEER	To identify existing multilatoral and international EF
(Making EE Real) -	- To identify existing multilateral and international EE initiatives and assess their effectiveness.
Completed	initiatives and assess their effectiveness.
	- To provide a forum for cooperation & knowledge-sharing
PEPDEE	of how utilities can improve the EE of gas & electricity
(Policies for Energy	customers.
Provider Delivery of EE)	- To identify, document, encourage, & disseminate best
Completed	practices in utility-delivered EE programs, along with the
	regular policies.

IPEEC Recent Activities 3/3

Task Group	Purpose and Scope								
SBN	- To identify policies to improve building energy EE globally.								
(Sustainable Buildings	- To serve as a reference portal for information on energy								
Network) - Completed	efficient practices & use of renewable energy in buildings.								
SEAD (Super-efficient	- To increase the market penetration of super EE								
Equipment & Appliance	appliances through coordinated action & technical								
Deployment)	exchange by gvts committed to market transformation.								
Top Tens (Top 10 EE Best Practices and Available Technologies)	 To identify cost-effective & practical measures that could lead to significant energy savings. To create synergies between information resources already developed, & determine how this information can be best adopted by end users. 								
WEACT (Worldwide EE	- To facilitate the creation, improvement & implementation								
Action through Capacity	of EE policy-making capacity in developing & emerging economies.								
Building & Training)									

Cooperation

Participating Members

	AEEFM	BEET	EMAK	GSEP	IPEEI	MEER	PEPDEE	SBN	SEAD	TOP TENS	WEACT
Australia											
Brazil											
Canada											
China											
EU											
France											
Germany											
India											
Italy											
Japan											
Mexico											
South Korea											
South Africa											
Russia											
United Kingdom											
USA											
Secretariat											

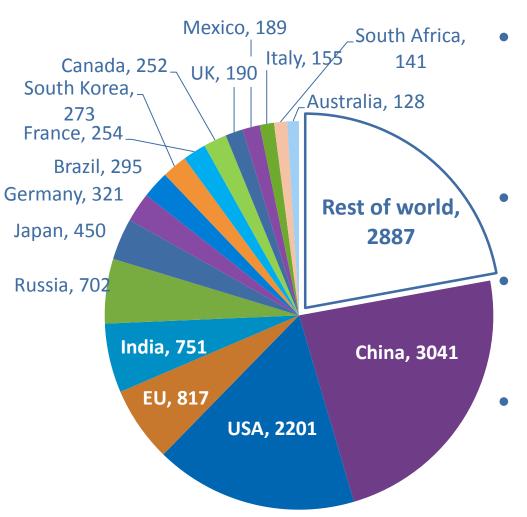
Network of implementing organisations

Proposed as future activity under the G20 Energy Efficiency Action Plan by Japan.

Activities:

- Knowledge management: through knowledge sharing and more effective information flow.
- <u>Capacity building</u>: at all levels. Different organisations and institutions have access and expertise in specific sectors, be it public, private, financial etc.
- Reinforce impact: by sharing knowledge and coordinating activities in a complementary manner

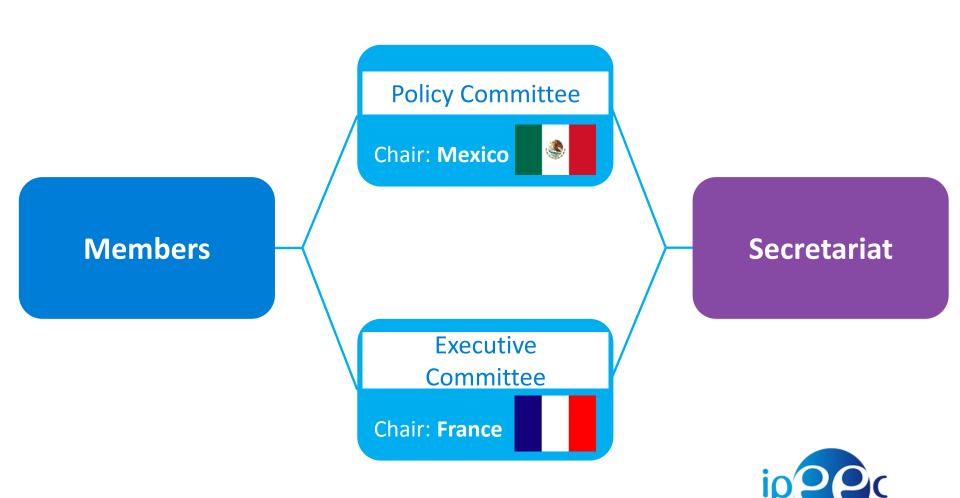
Why IPEEC?



- IPEEC's member economies represent:
 - Over 75% of global energy use
 - 75% of global GHG emissions
 - Global economy demands global response
 - International cooperation for **coordination** and maximum **impact**
- Energy Efficiency is the 'first fuel'!



IPEEC governance structure



Partnership for Energy Efficiency Cooperation

IPEEC Initiatives



Cooperation

- Building Energy Efficiency Task Group (BEET)
- Energy Management Action Network for Industrial Efficiency (EMAK)
- Global Superior Energy Performance Partnership (GSEP)
- Improving Policies Through Energy Efficiency Indicators (IPEEI)
- Super-Efficient Equipment and Appliance Deployment Initiative (SEAD)
- Top Ten Energy Efficiency Best Practices and Best Available Technologies Task Group (TOP TENS)
- Worldwide Energy Efficiency Action through Capacitans
 Building and Training (WEACT

Latest work



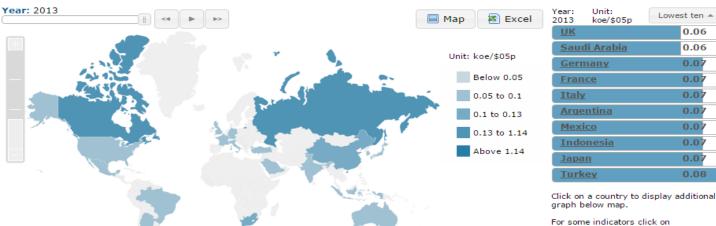
G20 Energy Efficiency Indicators

Contact | Policies | Home



▼ Intensities Primary Energy intensity Ajusted at same economic structure Ajusted at same economic structure, climate and energy mix Final Energy intensity Ratio final/primary intensities ▶ Power sector ▶ Industry ▶ Transport ▶ Buildings ▶ Agriculture ▶ Energy consumption

Final energy intensity at ppp



Enerdata

For some indicators click on « Advanced indicators » to get additional graphics.

Link to policies

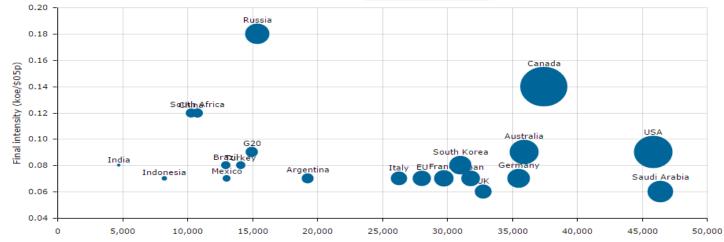
Final energy intensity of GDP at purchasing power parities

How to use

Sources

The final energy intensity is the ratio of final energy consumption over GDP. The final energy intensity is the energy consumed by end users (ie industry, transport, households, services and agriculture) excluding the use of petroleum products and natural gas as chemical feedstocks. The final energy consumption is excluding non-energy uses and statistical discrepencies. It is calculated as the sum of final consumption by end-use sectors and may differ from other sources.





Case Studies

TV switch in Mexico

- SEAD LEERA study found that exchanging 14 million old TVs with energy efficient LED-LCD TVs would save USD 2.3 billion
- Mexican Government set aside USD 2 billion to assist 13.8 million lowincome households with the TV switch
- First TV sets
 were delivered
 in May 2014



Cool roofs in India

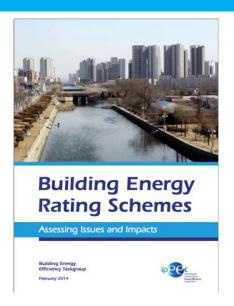
- GSEP initiative worked with SUCCEED to support construction of residential buildings with "cool" exteriors
- Reflective paint used reflects incoming sunlight, reducing cooling energy use and improving thermal comfort of buildings and cities
- Benefits extend to increase worker

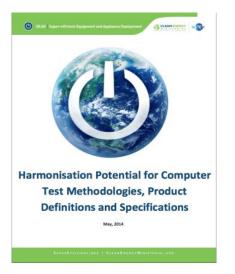


productivity, living standards, and reducing number of health-related illnesses and deaths.

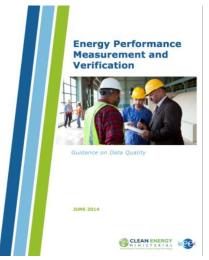


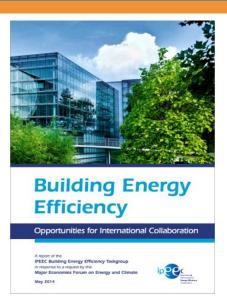
Publications

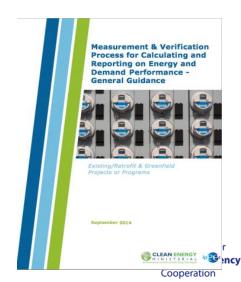












The G20 EE Action Plan





The G20 EE Action Plan

- Endorsement:
 - by G20 leaders in November 2014 Brisbane, Australia
- **Purpose**: to encourage uptake of energy efficiency policies in major G20 economies
- Action: six work streams



The G20 EE Action Plan



The G20 Work Streams

	APPLIANCES & EQUIP.	BUILDINGS	INDUSTRY	POWER	TRANSPORT
BEET		√			
EMAK			√		
GSEP		√	√	✓	
IPEEI	√	√	√	√	✓
SEAD*	✓				l
Top Tens	√	√	✓		
WEACT	✓	√	√	√	√
EEFTG		✓	✓		
TTG					✓

International
Partnership for
Energy Efficiency
Cooperation

The G20 Opportunity





Impact

G20 countries
 represent more than
 80% of global energy
 consumption



Policy influence

High-level forum for policy recommendations

Strategic outlook

Ambitious multi-year initiative with long-term goal





NEWSLETTER

Issue 9 - March 2015



Delivering the G20 Energy Efficiency Action Plan

The first few months of 2015 under the G20 Turkish Presidency have seen the launch of three new IPEEC Task Groups as part of the G20 Energy Efficiency Action Plan. In this edition, we explore these latest developments and reflect on the progress of International Energy Efficiency Cooperation.

Launching the G20 Energy Efficiency **Finance Task Group in Paris**

Finance is a crucial part to realising the world's energy efficiency potential, yet there are significant challenges. At the launch of the IPEEC Energy Efficiency Finance Task Group (EEFTG) on March 13th in Paris, international organisations, financial institutions, policy-makers and leading experts convened to address the bottlenecks in energy efficiency finance. Read more on page 11.

Making 'smart' devices smarter about energy use

According to IEA estimates, energy efficiency improvements to networked devices could unlock savings of 739 TWh per year by 2025. That's more than the current total final electricity consumption of Canada, Denmark, Finland and Norway combined! Recognising this tremendous potential, the G20 Energy Efficiency Action Plan invites G20 countries to accelerate work on this issue. Find out more about networked devices and the G20's efforts to improve their energy efficiency on p.6.

New task group to tackle vehicle energy efficiency

G20 economies are joining forces to improve transport energy efficiency through IPEEC's new Transport Task Group (TTG) as part of the G20 Energy Efficiency Action Plan. The TTG will do this by targeting a combination of actions on a few areas, including fuel efficiency and quality. Find out more about the TTG and why it's needed on page 8.

Connect with us











Turkey has set the foundation for an effective energy efficiency strategy

With the presidency of the G20 Summit in 2015, Turkey is keen to advance the implementation of the G20 Energy Efficiency Action Plan through the Energy Sustainability Working Group. Domestically too, Turkey is making huge strides towards reforming its energy landscape. Turkey's industrial sector energy efficiency strategy has already achieved great impact and there will be plenty more to come. especially now that Turkey is preparing to join IPEEC as the organisation's 17th member. Read more on page 2.



Past Events

Upcoming Events

World Future Energy Summit 19-22 Ian 2015

World Sustainable Energy Days 25-27 Feb 2015

Energy Efficiency UNFCCC Climate Global Forum 12 May 205

Change Conference

ECEEE Summer Study on EE 1# lune 2015

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Mr. Benoît Lebot Executive Director

With over 20 years' experience in Energy Efficiency, Mr. Lebot brings invaluable expertise to the IPEEC Secretariat. During his extensive career he has worked for the French



French National Energy and Environmental Agency (ADEME), the International Energy Agency (IEA), and the United Nations Development Programme. Having joined IPEEC in March 2014, Mr. Lebot aims to support IPEEC member states in further elevating energy efficiency on the international policy agenda and support the member states in the implementation of their work streams.

