

International Contexte and Financial needs for energy efficiency

EE Seminario OLADE 2016, Montevideo Benoit LEBOT, Executive Director

International Partnership for Energy Efficiency Cooperation







1973 1978 1983 1988 1993 1998 2003 2008 \*IEA-11: Australia, Denmark, Finland, France, Germany, Italy, Japan, Netherlands, Sweden, United Kingdom, United States

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# **Multiple Benefits of Energy Efficiency**



# World Green House Gas Emissions













### Pathway towards a 2° C Global Warming



#### Four wedges for a low carbon development



## **Energy Efficiency #1 in GHG Mitigation**

**Global energy-related GHG emissions** 

Savings by measure, 2030



Five measures – shown in a "Bridge Scenario" – achieve a peak in emissions around 2020, using only proven technologies & without harming economic growth

\*Source: IEA (2015) WEO Special Report on Energy and Climate Change

# **Energy Efficiency #1 in GHG Mitigation**



The measures in the Bridge Scenario apply flexibly across regions, with energy efficiency and renewables as key measures worldwide

\*Source: IEA (2015) WEO Special Report on Energy and Climate Change



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# ...and the \$ \$ \$ needed

# Average annual low-carbon investment, 2014-2040



Energy Efficiency





# Why the G20?





### **IPEEC Members are Major Economies**



### IPEEC Member Countries weight >75% of World Energy Consumption



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# **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.



### **The G20 Energy Efficiency Action Plan**

















### Two major financial flows are needed:

## **1. Financing EE Enabling Environment**

# 2. Scale up of EE Investments



Proposed Energy Efficiency Investment Principles I

- Recognise Importance of Energy Efficiency as an Economic and Development Priority.
- 2. Encourage countries to consider both supply and demand side investments in a **balanced way**



Proposed Energy Efficiency Investment Principles II

- 3. Country-level review of measures and policies that **stimulate demand** for energy efficiency investments
- 4. Collaboration to unlock barriers that prevent the **supply of finance** for energy efficiency investments



Proposed Energy Efficiency Investment Principles III

 Build Capacity within Public and Private Financial Institutions for Energy Efficiency Investments.



# G20 Energy Efficiency & Finance

Regulations and their stability are the key drivers for the demand of and the supply for energy efficiency investments



### **Achievements from G20 EE & Finance**

Energy Efficiency Principles

Bank Declaratio n of Intent on Energy Efficiency

G20 Energy Efficiency Investor Statement \$4 Trillion of assets



**106** banks

#### **Bank Statement on Energy Efficiency**

- Channel finance
- <u>Recognise</u>
   opportunities
- **Provide** finance
- <u>Scale</u> up
- <u>Track</u> deployment

- <u>Embed</u> EE investment principles
- <u>Guide</u> clients
- <u>Work</u> together
- <u>Share</u> experience





Energy Efficiency

#### **Over 100 banks mobilized globally at COP21** to increase the financing of energy efficiency

**ABN AMRO** ACBA - Credit Agricole Bank ACCESSBANK Agiencioni Per Financim NE Kosove AKBank Ameriabank Armswissbank **ASN Bank Bai Tushum & Partners** Banamex Banca Transilvania **Bancolombia** Bancompartir Bank Eskhata **Bank Millennium Bank of Georgia** Bank of India Bank of Valletta **Bank Republic** Basisbank **BBVA** Belgazprombank Belvnesheconombank **BMCE Bank of Africa BNP** Paribas **B**pifrance **BPS-SBFRBank** 



European Bank for Reconstruction and Development

- BRAC Bank Limited BRD - Groupe Societe Generale CASA DE Economii SI Consemnatiuni CenterInvest Bank CIBanco Connecticut Green Bank Crédit Agricole Crédit Coopératif
- **Crédit Foncier** CREDO **Daegu Bank** Demir Kyrgyz International Bank Demirbank DenizBank **Desjardins Group** Ecobank Frste & Steiermarkische Bank Eurobank Firstrand Garanti Bankasi Garanti Leasing Halkbank Skopje Hana Bank **HSBC Bank Armenia** Humo MDO **IDLC** Finance Limited
- Imon International



Industrial Bank **ING Group** Kyrgyz Investment and Credit Bank La Banque Postale Megabank Microinvest Minsk Transit Bank Mobiasbanca Moldincombank Moldova Agroindbank Mutualista Pichincha National Bank of Egypt NLB Tutunska Banka A.D. Skopje **NRW Bank** Ohridska Banka A.D. Ohrid **OTP Bank Romania** Pireaus Bank **Procredit Group Raiffeisen Bank Aval** Raiffeisen Bank D.D. Bosnia and Herzegovina Raiffeisen Bank Romania SEE International Universal Credit Organization Şekerbank



Shinhan Bank Slovenska Sporitelna Societe Generale Group Societe Generale Banka AD Beograd State Export Import Bank of Ukraine Sudameris Bank Sumitomo Mitsui Trust Holdings Tatra banka Triodos Bank **TuranBank** Türkiye İs Bankası Türkiye Sinai Kalkinma Bankasi **UK Green Investment Bank** Ukrsibbank Unibank Unicredit Bank DD Mostar Unicreditbank Serbia **Unicredit Bulbank Unicredit Tiriac Banka United Bulgarian Bank** Vakiflar Bankasi **VTB** Georgia Xac Bank Yapı ve Kredi Bankasi **YES Bank** Zagrebacka Banka



#### **Energy Efficiency Investor Statement**



**Investors managing close to USD 4 trillion signed the Energy Efficiency Investor Statement** 







Ceres WE CAN WILL Lima-Paris Action Agenda

# Energy Efficiency Investor and Bank Statements

 Remain open for additional signature to accompany the G20 work, and until COP22,

 2016: Increasing the number of institutions involved, and developing content



# **Energy Efficiency needs access to:**

Information
 Technologies
 Know how
 Finance

# Vision -Dedicated Staff Work Plan



# **Conclusion: no longer an option**

- All levels to be mobilized, in all economies;
- Significant public \$ is necessary on EE fundamentals, but returns are high
- Green Climate Funds could finance EE
- National versus local: experiment, validate, raise EE ambition
- International Cooperation can enhance the deployment of Energy Efficiency.

Cooperation

# **Thank You** E-mail: b<u>enoit.lebot@ipeec.org</u> Tel: +33 (0)1 40 57 67 89 <u>www.ipeec.org/EEFTG</u>





- National Policy Framework (EE law);
- Dedicated human resources

   (institutions or existing
   departments);
- Dedicated financial resources;

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- Energy Efficiency is not only an energy policy
- Set level playing field (market price for energy, ruling utilities)
- EE needs time and lots of patience...



- Energy efficiency requires and consumes lots of data
- Significant investments is needed in data collection and analysis (setting the baseline)
- Governments to set metrics, data collection channels...



- Energy bills reduction is just one of the benefits of energy efficiency
- Metrics & data collection to assess non energy benefits
- Energy Efficiency Targets
- Monitor progress: EE indicators



- Minimum Energy performance standards on equipment, systems & buildings
- Labeling, rating, certification, codes
- New construction & existing buildings
- Include energy in land use & urban development

GIS, ITC, Big Data, BIM = great opportunities

- Utility programs (DSM)
- Engage the finance community
- Set financial/fiscal measures
- MRV & Inspection scheme

![](_page_43_Picture_5.jpeg)

- Permanent communication on all levels
- Mainstream EE in all line Ministries
- Good balance between National & Local implementation (experiment).
- When appropriate, line up with international or regional dynamics.

![](_page_44_Picture_5.jpeg)