G20 Energy Efficiency Investment Toolkit

G20 Energy Efficiency Finance Task Group (EEFTG)

LAUNCH PRESENTATION

G20 Energy Efficiency Forum – Hamburg 2nd May 2017

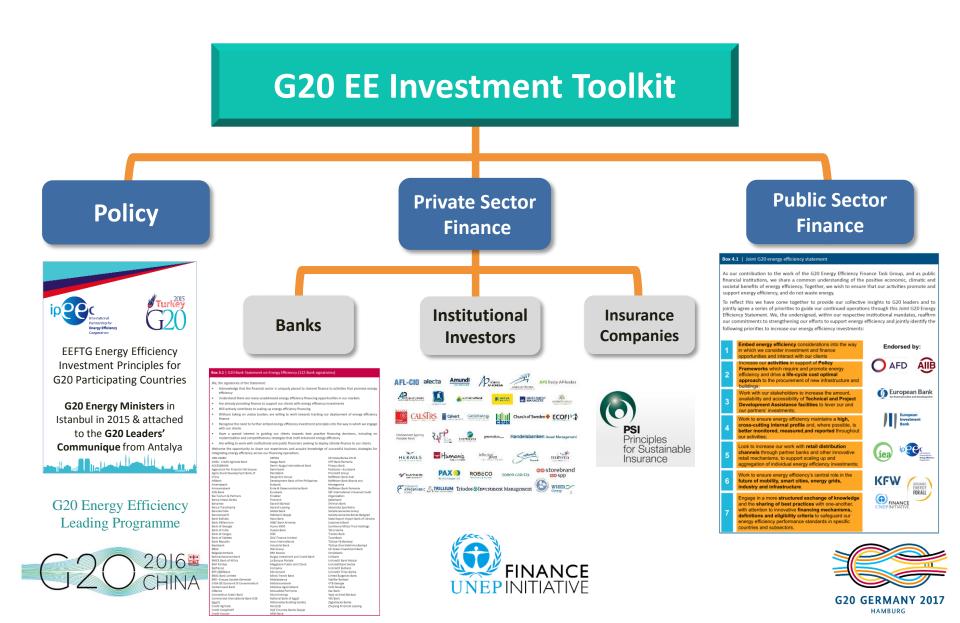




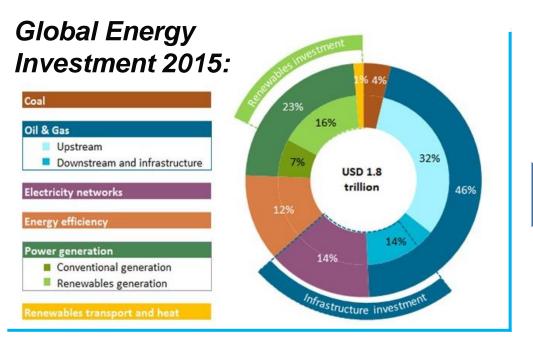




Why a G20 Toolkit to Scale-up Energy Efficiency Investments ?



I. Measurement and Definitional Tools



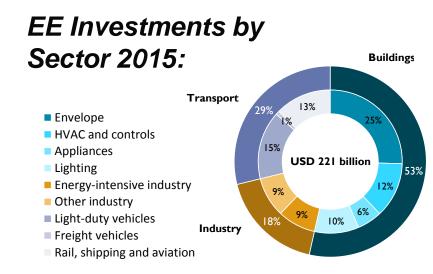
Investment in Energy Efficiency, Concepts:

• Method 1, Total Spend: Market size for energy efficient goods and technologies.

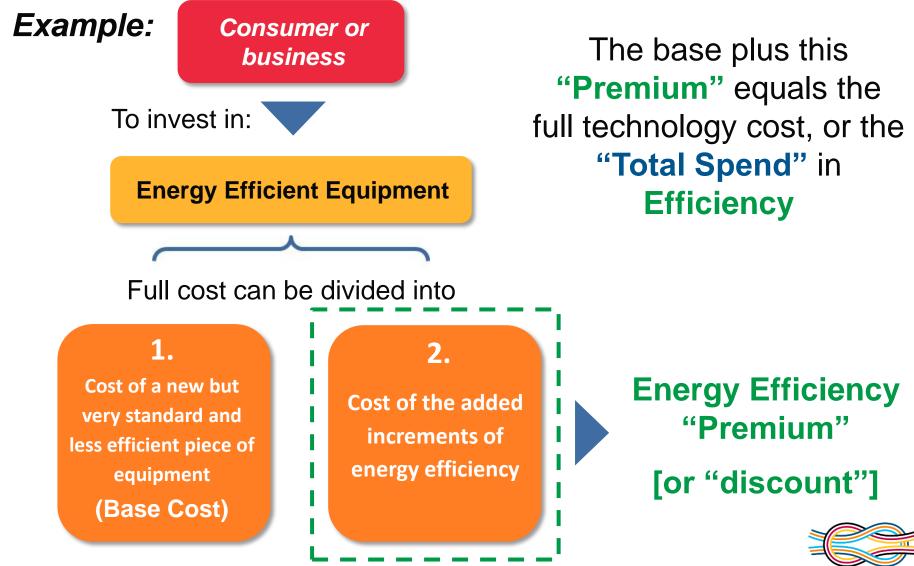
Method 2, The Incremental

Investment: Additional investment needs that would lead to energy efficiency improvements above BAU levels.

- Energy efficient investment needs to increase (independent of source)
- While Energy Efficiency Financing is a mechanism (means to an end) which can accelerate the growth of energy efficient business models, enabling the up-scaling of energy efficiency investments



Energy Efficiency Premium: How G20 can "Take it to Zero"



G20 GERMANY 2017

Mapping Tools: "Energy Efficient World" for the G20...

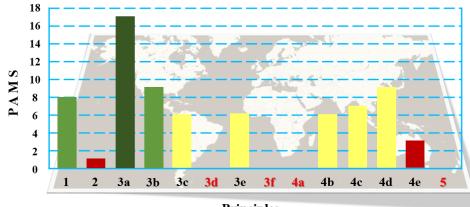
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			Integrated	Core
Market	\$	USD trillions	USD 221bn	ESCOs (USD 24 bn); "Self-financed"
Policy	2000+ policies	Energy subsidies; Inefficient markets; Supply-led planning.	Energy Transition; National Renovation Strategies; Vehicle Fleet Standards; Transparent Energy Planning.	"EE First"; Mandatory targets/ standards; NZEBs; EE Obligation schemes; National EE Action Plans.
		Mainstreaming Enabling		
r Private Sector	Banks	Finance undertaken without explicit consideration of energy "externalities" or cost effective energy improvements.	Green tagging; Green buildings lending; green lending; climate lending; Equator principles.	EE mortgages; Building renovation Ioan; EE credits/Ioans; EE tagging.
	Investors \$70tr	Finance undertaken without explicit consideration of energy "externalities" or cost effective energy improvements.	Green tagging and company disclosure; Collaborative shareholder activism; Green funds; Sustainable real estate funds.	EE funds; Energy Productivity Indexes; Own real estate EE renovation; EE tagging.
	Insurers \$31tr	Product and services without explicit consideration of energy "externalities".	Green buildings insurance; Climate mitigation insurance and investments; Addon coverage; Technical assistance, advisory services.	Energy saving insurance; energy performance guarantee; EE advisory services.
Public Sector	Public finance \$176 + bn	Finance undertaken without explicit consideration of energy "externalities" or cost effective energy improvements.	Resource Efficiency; Safeguards; ESG & Climate Commitments; \$33 bn	Direct EE Lending; EE Policy lending; EE targets; Technical assistance. \$7 bn

II. G20 Policy Tools: voluntary EE Investment Principles (vEEIP) Framework, Databases & TEWs

- EEFTG reviewed 2,000 policies in the IEA's PAMS database, focusing on G20 countries, in combination with the results of its 2016 global expert survey.
- To then sort the data by principle and sub-principle of the vEEIP for G20 participating countries
 - Attaining an approximate view of the **Principles** and **sub-Principles** that are widely implemented in existing policies and **identified the gaps where further progress can be made**.

Concentration of PAMS policies in the vEEIP Framework for G20 countries



Principles

Policy toolkit: based on the Principles

will

provide

for each

- Rationale Key Findings
- Case Studies (policy innovations that promote EEI)
- Action Areas

of the Principles and sub-Principles in the G20's vEEIP

EEFTG's Tools for Bilateral Engagement with G20 Countries

- I. Supporting the development of an enabling national policy framework
- II. Providing an engagement platform and mechanism through its Technical Engagement Workshops (TEWs)
- III. Exchanging knowledge of good practices

III. Private Sector Tools: Collective Statements, Green Tags, Best Practice Surveys and De-Risking

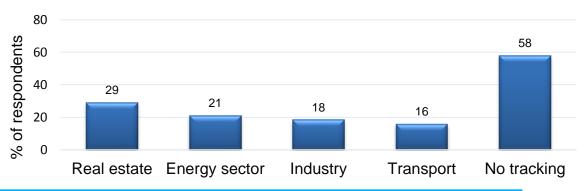
2016 EEFTG's Bank Survey

Key Conclusions:

- a. Well-recognized opportunity
- b. Needing awareness raising and supportive policies
- c. Requiring tracking of energy efficiency finance

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Green Tagging to Track the Energy Performance of Banks' Assets



G20 Energy Efficiency



Insurers can help De-Risk Energy Efficiency Investments:

- 1. Technical risks particularly during the implementation of the energy efficiency improvements as a multi-stakeholder process and when using complex equipment.
- Financial/performance risk the level of energy savings and the financial value of these savings.



IV. Public Finance Tools: Joint Statement, Focus Action Framework, Structured Engagement for Development

Public Financial Institutions have led Energy Efficiency in 3 Areas:

- 1. Showcasing & replication of energy efficiency investment models.
- Identification & implementation of new financial instruments that facilitate the replication and scale up of energy efficiency investments.
- 3. Identification of **internal policies** that **mainstream** EE investing **across all activities** of the organisation.

Joint G20 Energy Efficiency Statement



Framework of Action for Public Financial Institutions and Country Partners to scale-up Energy Efficiency Investments

- Increase Policy-based Lending to Support Investment Grade Policy Frameworks that require and promote EE and to drive "Life-cycle Cost Optimal" Procurement of Public Infrastructure and Buildings
- 2. Increasing the amount, availability, simplicity and connectedness of Technical Assistance/ Project Development Assistance facilities
- 3. Lever Multiple Retail Distribution Mechanisms
- 4. Energy Efficiency's Central Role in the Future of Mobility, Smart Grids and Infrastructure

Summary for Policymakers: 10-pages, 24x Recommendations ... supported by 30x Case Studies (Annex)

EEFTG's **G20 Energy Efficiency Investment Toolkit** provides voluntary options & insights to G20 members on pathways to begin this **market transformation**.

It also includes *tools*, *actions, best practices* and *case studies* for *G20 countries* to take-up as they consider useful G20 Energy Efficiency policies, financing tools and best practices developed through the flexible and collaborative architecture of this Toolkit provide an integrated approach to enhancing capital flows towards energy efficiency

Embedding energy efficiency in investment
processes through an enabling policy
framework is key to accelerating G20 energy
intensity improvement

G20 Energy Efficiency Investment Toolkit is a vehicle to showcase best practices, strengthen the visibility of energy efficiency in private financial disclosure and support commitments to scale-up energy efficiency investments

G20 countries can lever the experience of public financial institutions to ensure energy efficiency's central role in the future of mobility, smart cities, energy grids, industry and infrastructure

What next for the G20 Toolkit ? (Debate)

No single Stakeholder group can deliver the scale up of G20 energy efficiency investment required on its own

Value Created:

- The network effect created by convening and connecting the multiple stakeholders responsible for its components; and
- Uniting them in the pursuit of a shared objective with benefits for all.

The G20 Toolkit Provides:

Collaborative Architecture

 G20 policy makers can engage in a structured dialogue with investment providers

+

 Jointly develop and deliver the targeted economic, social and environmental benefits

G20 Leaders grow EE Vinvestm

investments together

G20 GERMANY 201

- In their national interests
- And for the benefits of the global community

3x Toolkits in One to Scale-up Energy Efficiency Investments



By G20 Energy Efficiency Finance Task Group (EEFTG) (Work & Achievements)

Comprised of 15 countries and co-chaired by France & Mexico



2016=

十国集团能源部长会议

In 2016 EEFTG engaged with around 1,200 individuals through a programme of 18 workshops or contributions to G20 and related activities in Europe, USA, China and Latin America

EEFTG global survey generated 140 specific ideas, instruments, approaches, mechanisms, instruments and practices shared by 72 experts

> Beijing G20 Energy Ministerial Communique calls for "upscaling energy efficiency investment"







Launched campaign to engaging with 122 banks & asset managers managing \$4+ trillion of funds



Thank You

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Supported by: $\frac{CLIMATE}{P \ A \ R \ T \ N \ E \ R \ S} \frac{STRATEGY}{STRATEGY}$

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