

**Developing international cooperation on Energy Use  
Data & Energy Efficiency Metrics (EEUDM)  
Suggestions for discussion from France and IEA**

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# G20 EEUDM initiative: Background

- G20 agreed in Beijing June 2016 to launch a new work stream Key area II : Energy End-Use Data and energy efficiency Metrics (EEUDEM).
- Work to be led by France (ADEME) and the IEA – the technical committee (TC), with participation from as many G20 members as possible



# **G20 EEUDM initiative : Proposed project implementation Activities**

**The EEUDEM initiative could cover activities including:**

- 1. Exchange of information**
- 2. Capacity building**
- 3. Data**
- 4. Reporting**
- 5. Dissemination**

**Timing will depend on needs and interest from countries and can be multi-phase**

**The success of the initiative will depend on G20 countries involvement and be enhanced by funding.**

# G20 EEUDM initiative : Exchange of information (I)

**Objective:** share knowledge and experience possibly on the following areas:

- Collection and use of energy end-use data through complementary methods (surveys, modelling etc.)
- Development, production and use of energy efficiency metrics
- Energy efficiency database management
- Analysis of end-use data and metrics (strategies, approaches, methodologies)
- Development of meaningful comparisons
- Reporting and dissemination to improve decisions and policies effectiveness.

## Exchange of information (2)

Example activities could be the development of web tools, or regional or national workshops, designed for example as follows:

### Regional workshops

- a. To draw a **list of priority topics** based on the Paris workshop recommendations, the survey, follow-up interaction and voluntary contribution from countries.
- b. To organise **one or two workshops** per year preferably rotating the country hosting
- c. To share proceedings of the workshops

# Capacity building

Example activities could be :

## Training sessions

- a. National or regional training events on priority topics –complementing existing IEA training on energy balances, energy efficiency data, etc.
- b. The TC would prepare the training material and deliver the training with support from interested G20 countries.
- c. The training material would be made available to all.
- d. Developing webinars or other on-line training or support material

## In country job assistance

- a. Interested G20 countries could request TC assistance with relevant issues of EEUDM
- b. The TC would select the requests depending on funding availability and provide the assistance with external contribution as needed

# Data

International work on energy efficiency trends analysis could be considered for a selection of voluntary G20 countries or at the whole G20 level.

If agreed, it would require data collection for the G20 countries on a voluntary basis - potentially utilising existing data collection for the non- IEA countries taking part.

# Reporting

Example activities could be designed as follows:

## **National reporting for voluntary countries**

- a) The TC could provide an example of the content of the national report (e.g. similar to the IEA questionnaire)
- b) G20 countries could report on a voluntary basis, reviewed by the TC

## **G20 report on energy efficiency trends**

- a) The TC could produce the report on G20 energy efficiency trends, based on G20 data, possible including case studies from the national reports
- b) This report could be an ad hoc report or a dedicated chapter of the « energy efficiency market report »?
- c) The report will be reviewed by the G20 countries
- d) The report could be complemented by a database accessible to contributing countries



# Dissemination

Severall dissemination activities could be performed, for example:

- a) Material on the main lessons learned could be prepared by the TC and made available to G20 participating countries.
- b) Dissemination of any national reports in a national workshop or occasional regional workshops for G20 countries.
- c) Web platforms to share all documents related to the EEUDM activities.
- d) Reporting to G20EELP by the French Government and IEA
- e) Dissemination by the TC of the report on request by G20 countries or any relevant international fora.

# G20 EEUDM initiative: Suggested country participation elements

- This initiative is under the G20 EELP. Therefore **all G20 countries** can formally participate to this initiative.
- Participation of each country is on a **voluntary** basis.
- G20 countries which have a specific interest **can fund activities of** the initiative beyond the French governmental initial funding.
- Due to different expertise and practice in G20 countries, an element of the initiative could be particularly **focused towards countries with lack of end-use data.**
- Participation of countries to the different topics are **on an ad-hoc basis**
- Countries can participate **as provider** of capacity building or can **benefit** from these information.
- Countries are encouraged to participate in developing comparable data
- **Non-G20 countries** can participate to some topics on request or through invitation (ie workshop on exchange of information)

# G20 EEUDM initiative : Project implementation Management

- **Co-chairing** French government-ADEME /IEA
- **As technical coordination**, ADEME-IEA could jointly :
  - Produce strategic documents (Road map, TOR etc.) for agreement with others
  - Develop technical and methodological documents (surveys, guideline, training documents etc.)
  - Prepare (invitation and agenda) and organise workshops with other stakeholders if any (for instance a G20 country)
  - Organise and deliver training sessions.
  - Perform in country on-job assistance on request (depending on funding)
  - Review data
  - Disseminate the results at country level or at G20 level
- **IEA could**
  - Manage data collection if any (to be discussed) and any G20 EEUDM data base on energy demand and energy efficiency metrics
- **French government could**
  - Chair the G20 EUDD committee if any
  - Report and disseminate results to G20

## Questions for discussion

The initial design of the initiative should address the following questions:

- How could an international initiative improve energy use/efficiency data to best help your country?
- What are the barriers to the development of these data?
- What are key areas of interest for policy makers?
- What activities could help support the development of improved data?
- How can training be most usefully used and provided?
- On a longer term, would you see benefit in greater sharing of data across G20 countries to understand more on the impact of policies?
- What are the initial priorities?
- Any other key questions?

**Thank you for your attention**

# Task 1: Exchanges of informations

## Possible topics

1. Institutional framework to collecte end-use data
2. End-use surveys methodologies including data quality
3. Use of big data
4. Energy efficiency data base management
5. Sectoral end-use energy balance
6. Energy efficiency Metrics calculation included advanced indicators (energy efficiency index, decomposition analysis, financial indicators, diffusion indicators etc);
7. EE Metrics to monitor NEEAP
8. Reporting
9. Dissemination of results (key figures for efficiency)
10. Etc.

## Task 3: The EUD&EEM G20 Data base management

- a) The Technical coordination can prepare a common template as close as possible to the current IEA practices.
- b) IEA can send the questionnaire to the G20 countries participating countries (excepted those already engaged in the IEA mandatory template).
- c) The participating G20 countries will send back to IEA the filled-up template
- d) IEA will proceed to the quality check and send back a report on data collection issues to the participating countries.
- e) The TC will elaborate adjusted indicators to perform the benchmark of the EE metrics
- f) IEA builds-up an ad doc (internet interactive?) database gathering all the information
- g) IEA will provide access to the data base to all G20 participating countries to the benchmark

# **G20 EEUD initiative : Project implementation**

## **Possible Deliverables**

**D1a : Road map**

**D1b : TOR**

**D2: Training material**

**D3: Guidebook on EEUD good practices on surveys, EEUD energy balances**

**D4: National EEUs energy balances**

**D5: National EEUD templates (based on IEA template)**

**D6: National report on energy efficiency (on voluntary basis)**

**D6 : G20 data base (open or not)**

**D7: Report on G20 energy efficiency trends (every 2-3 years ?)**

**D8: Proceedings of workshops**

**D9: Website? (IEA, ADEME)?**

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# G20 EEUD initiative : Project implementation illustrative 2017 Actions

- Dissemination of proceeding of the 12th December meetings
- Setting-up a survey on EEUD data collection practices (spring 2017)
- Finalization of the TOR (Spring 2017)
- Finalization of Road map (Spring 2017)
- Selection of the topic for the first regional meeting
- First regional meeting (May-June 2017)
- Training session on selected topic and on the template (May June 2017)
- In country assistance (autumn 2017)
- Starting of the data collection process (Autumn 2017)
- Selection of topic for the second meeting (autumn 2017)
- Second project meeting (Autumn 2017)
- Report of activities to G20

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