



Energy Efficiency Training Week

Indicators and Evaluation

Charles Michaelis and Mafalda Silva

Bangkok 1 April 2019



IEA #energyefficientworld

Roundtable: knowing each other



- Charles Michaelis
 - From the UK with experience in Indonesia, Vietnam, China and Australia
 - Monitoring and evaluation of energy efficiency policies for 30 years
 - Indicators and evaluation helps to deliver better policies with better results for people and the environment
 - Hoping to build understanding of indicators and evaluation to help you in your work in future



- Mafalda Silva
 - Leads the end use data and energy efficiency indicators work stream in the IEA Energy Data Centre
 - Experience in research around sustainable and energy efficient urban planning and urban metabolism
 - Good policies need evidence: data and indicators are central to policy design and evaluation in any field
 - Hoping to provide useful and practical takeaways on indicators and evaluation for your daily work in your countries and to learn from your experience



- What is your name?
- Where are you from?
- What is your job and how are you involved in energy efficiency indicators and evaluation?
- What are you hoping to get out of this week?

- This course aims at providing participants with techniques to assess the results of energy efficiency policies and programmes; including a focus on relevant data and indicators and how to use them to feed different stages of the policy cycle, such as understanding policy progress and effectiveness and what can be improved; designing new indicators and refining existing ones.*
- The training will involve* **Interactive!** *lectures, group work and discussion to explore the principles of monitoring and evaluation techniques and how to implement them.*
- It will also identify sources of data for developing energy efficiency indicators and answering evaluation questions, and how to collect data to address evidence gaps.*

Agenda: Day 1 - Monday



14:00 - 14:30	INTRODUCTORY ROUNDTABLE
14:30 - 15:30	<p>1. WHERE TO START: INTRODUCTION TO KEY MONITORING AND EVALUATION CONCEPTS Charles Michaelis, Strategy Development Solutions</p> <p>Introduction to monitoring and evaluation concepts.</p> <p><u>Activity:</u> Indicators and evaluation exercise</p>
15:30 - 16:00	Coffee and Tea Break
16:00 - 17:00	<p>2. WHERE TO START: USING INDICATORS AND EVALUATION IN NATIONAL POLICY Charles Michaelis, Strategy Development Solutions</p> <p>Introduction to the policymaking process, theories of change, and the use of monitoring and evaluation.</p> <p><u>Scenario:</u> The national government wants to know if the policies implemented in the previous years have been effective.</p> <p><u>Discussion question:</u> What is the best way to know this?</p> <p><u>Activity:</u> Roundtable discussion</p>
17:30 – 19:30	Networking Reception (Foyer Ballroom 2)

Agenda: Day 2 - Tuesday



09:00 - 09:30	REVIEW: WHAT WE LEARNED YESTERDAY AND QUESTIONS
09:30 - 10:30	<p>3. TOOLKIT: ENERGY BALANCES AS A FIRST TOOL FOR INFORMING POLICIES Mafalda Silva, IEA</p> <p>Introduction to the energy balance and the insights and aggregated indicators relevant to energy efficiency policies</p> <p><u>Activity:</u> Reading balances and discussion on applications of indicators</p>
10:30 - 11:00	Coffee and Tea Break
11:00 - 12:30	<p>4. TOOLKIT: DATA FOR EFFICIENCY INDICATORS Mafalda Silva, IEA</p> <p>Introduction to the energy efficiency indicators and their relevance for tracking energy efficiency progress and informing policies.</p> <p><u>Activity:</u> Indicators exercise <u>and discussion on applications</u></p>
12:30 - 13:30	Lunch
13:30 - 15:00	<p>5. WHAT ARE THE STEPS: MAIN DATA SOURCES FOR DEVELOPING EFFICIENCY INDICATORS Mafalda Silva, IEA</p> <p>Overview of key data collection methods, and their advantages/disadvantages. Example of regional experience and practices.</p> <p><u>Discussion Question:</u> What are the benefits or drawbacks of each method? Where and how to find the data to develop efficiency indicators?</p>
15:00 - 15:30	Coffee and Tea Break
15:30 - 17:00	<p>6. WHAT ARE THE STEPS: HOW TO TELL IF YOUR POLICY MADE A DIFFERENCE? Charles Michaelis, Strategy Development Solutions</p> <p><u>Discussion Question:</u> What are the approaches you can take to answer this question?</p> <p><u>Activity:</u> What approaches would work in your country?</p>
17:30 - 19:30	Social Activity – Energy Slap Event

Agenda: Day 3 - Wednesday



09:00 - 09:30	REVIEW: WHAT WE LEARNED YESTERDAY AND QUESTIONS
09:30 - 10:30	<p>7. WHAT ARE THE STEPS: EFFICIENCY EFFECT AND OTHER DRIVERS OF ENERGY DEMAND Charles Michaelis, Strategy Development Solutions and Mafalda Silva, IEA</p> <p>Defining baseline, estimating energy savings from energy efficiency policies, and decomposition of energy efficiency effect.</p>
10:30 - 11:00	Coffee and Tea Break
11:00 - 11:30	<p>REVIEW: SUMMARY OF KEY MESSAGES AND ACTIONS INVOLVED IN MONITORING AND EVALUATION Charles Michaelis, Strategy Development Solutions and Mafalda Silva, IEA</p>
11:30 - 12:30	<p>8. ACTIVITY: DEVELOPING A MONITORING AND EVALUATION PLAN Charles Michaelis, Strategy Development Solutions and Mafalda Silva, IEA</p> <ul style="list-style-type: none"> What are the expected impacts? What are relevant indicators and evaluation questions? What data is needed to develop the indicators and answer the evaluation questions? What are possible obstacles? <p><u>Group exercise</u></p>
12:30 - 13:30	Lunch
14:00 - 15:30	<p>9. GROUP WORK ON ACTIVITIES Charles Michaelis, Strategy Development Solutions and Mafalda Silva, IEA</p> <p><u>Activity</u>: group reporting of monitoring and evaluation plans</p>
15:00 - 15:30	Coffee and Tea Break
15:30 - 16:00	<p>10. WHERE TO GET HELP: ADDITIONAL RESOURCES AND ASPECTS TO TAKE INTO ACCOUNT IN MONITORING AND EVALUATION Charles Michaelis, Strategy Development Solutions and Mafalda Silva, IEA</p>
16:00 - 16:30	<p>11. ENERGY EFFICIENCY QUIZ Charles Michaelis, Strategy Development Solutions and Mafalda Silva, IEA</p>
16:30 - 17:00	<p>12. WHAT TO DO NEXT? ROUNDTABLE DISCUSSION AND FEEDBACK ON COURSE Charles Michaelis, Strategy Development Solutions and Mafalda Silva, IEA</p>

Evaluation is an **objective** process of understanding **how** a policy or programme was implemented, **what** effects it had, for whom and **why**.

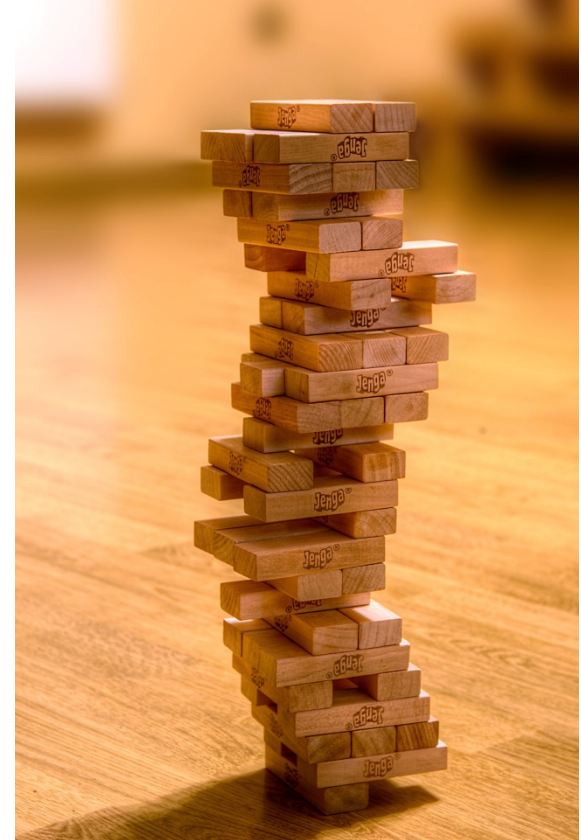
Leads to **more effective** policies and programmes

Indicators are clues, signs or markers that describe **observable** changes or events which relate to a programme or policy and show how close a programme or policy is to its desired path and outcomes.

Indicators provide the **evidence** that something has happened – e.g. an output delivered, an immediate effect occurred or a long-term change observed.

Exercise

- 4 groups
- 5 minutes
- Taking it in turns, remove a brick and place it on the top
- Tallest tower or last to collapse wins
- What indicators could you use to measure performance?



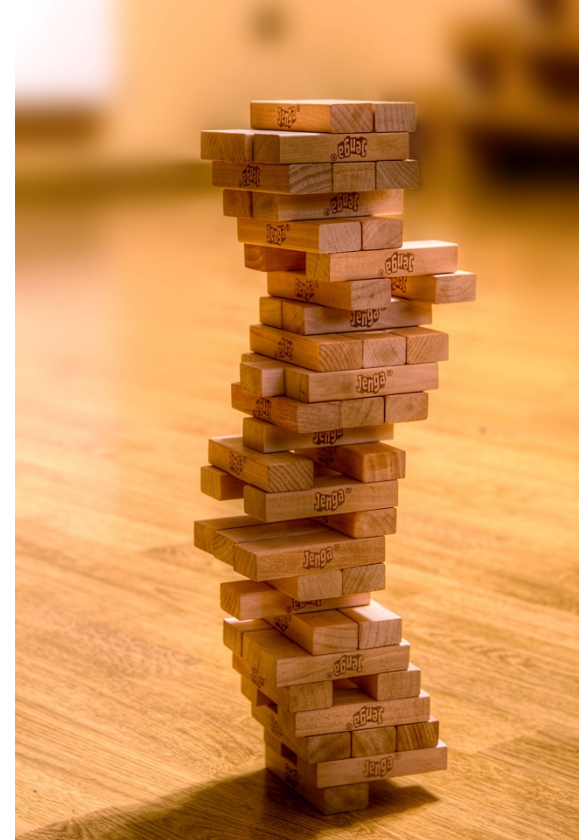
- Reflection

- What did you achieve?
- What about your approach worked and what didn't, why?
- What would you do differently next time?



What are indicators and evaluation?

- Repeat exercise
- Was that more effective?
- What have you learned about indicators and evaluation?
 - What did you do?
 - How did you do it?
 - What difference did it make?





ASEAN
THAILAND 2019

ADVANCING PARTNERSHIP
FOR SUSTAINABILITY



International
Energy Agency
Secure
Sustainable
Together



Department of Alternative
Energy Development and Efficiency
MINISTRY OF ENERGY

www.iea.org



IEA #energyefficientworld