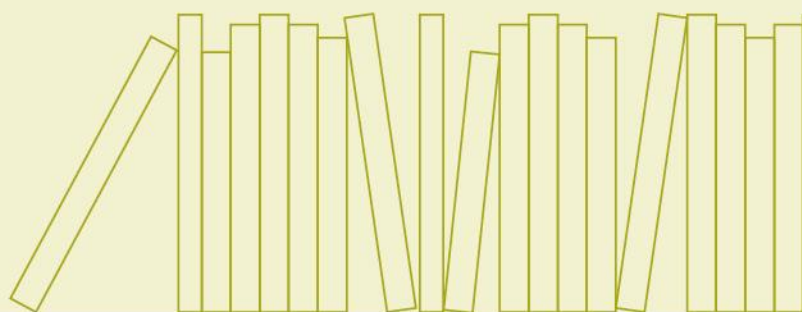


Economic Commission for Latin America and the Caribbean

**ECLAC SUBREGIONAL HEADQUARTERS
FOR THE CARIBBEAN**



Evaluation report of the launch of the Energy Efficiency Indicators Database Programme for Latin America and the Caribbean, and capacity building workshop on energy efficiency indicators



UNITED NATIONS

ECLAC



Economic Commission for Latin America and the Caribbean
Subregional Headquarters for the Caribbean

Launch of the Energy Efficiency Indicators Database
Programme for Latin America and the Caribbean, and
capacity building workshop on energy efficiency indicators
25 - 26 May 2017
Kingston, Jamaica

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**EVALUATION REPORT OF THE LAUNCH OF THE ENERGY
EFFICIENCY INDICATORS DATABASE PROGRAMME
FOR LATIN AMERICA AND THE CARIBBEAN, AND CAPACITY
BUILDING WORKSHOP ON ENERGY EFFICIENCY INDICATORS**

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A. INTRODUCTION

1. The Natural Resources and Energy Unit of the Economic Commission for Latin America and the Caribbean (ECLAC) has analysed the strengths and weaknesses of the energy efficiency programmes in the region and has reached the conclusion that one of the main obstacles has been the lack of information and indicators to facilitate a quantitative, full and integrated analysis of the evolution of said policies with the objective of making policy interventions based on solid information. In addition, the quality of the statistics and the performance indicators to quantify results of national energy efficiency programmes in Latin American and Caribbean countries has been deficient.

2. As a way to overcome this shortcoming, ECLAC developed the Regional Programme BIEE (Energy Efficiency Indicators Database for Latin America and the Caribbean) with the objective of creating a database of indicators that measure the performance of energy efficiency policies in participating countries. The programme follows the successful implementation of the *ODYSSEE Programme*, developed by the European Commission and managed by the French Environment and Energy Management Agency (ADEME for its acronym in French), and aims at producing a series of specific and methodologically consistent indicators that allow measuring and analysing the evolution of national energy efficiency programmes. ECLAC has undertaken the task of training and coordinating actions in the region to develop a common tool that facilitates this task.

3. The programme started in 2011 with to a contribution from the German Cooperation Agency (GIZ) and technically supported by ADEME, within the framework of the International Partnership for Energy Efficiency Cooperation. Initially, the programme aimed at supporting Southern Common Market (MERCOSUR) countries and associated nations; however, due to its success 19 Latin American countries are now participating: Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela. The Central American Integration System and the Latin American Energy Organization also participate.

4. The BIEE Programme launch in the Caribbean was designed to invite English-speaking Caribbean countries to join the initiative and improve their energy efficiency information. Barbados, Guyana, Jamaica, Saint Lucia and Saint Vincent and the Grenadines participated in the launch and presented the state energy efficiency measures and policies in their respective countries.

B. ATTENDANCE

1. Place and date of the training course

5. The BIEE Programme launch in the Caribbean and capacity building workshop on energy efficiency indicators was held from 25 to 26 May 2017, in Kingston, Jamaica.

2. Attendance

6. The workshop targeted specialists from energy agencies, and seventeen representatives from five Member States (Barbados, Guyana, Jamaica, Saint Lucia and Saint Vincent and the Grenadines) participated. Additionally, one representative from the Inter-American Development Bank (IDB) Jamaica delivered a presentation on energy efficiency projects in the region

7. The course was facilitated by the Research Assistant of the Natural Resources and Energy Unit of ECLAC headquarters, and the Coordinator and the Associate Environmental Affairs Officer of the

Sustainable Development and Disaster Unit of ECLAC subregional headquarters from the Caribbean. The discussion of the methodology was facilitated by the French Environment and Energy Management Agency and Enerdata.

C. SUMMARY OF KEY OUTCOMES OF THE TRAINING COURSE

8. Participants were trained in various components of the Energy Efficiency Indicators Database for Latin America and the Caribbean (BIEE programme). On the first day, the workshop focused on assessing the state of energy efficiency measures and policies in the participating countries, and on exploring the scope of the project and its successful implementation in Europe through the ODYSSEE-MURE programme. The database's template for information gathering and a description of the macro and energy balance sector were also presented.

9. The second day focused on specific sectoral approaches and information requirements, namely household, industry, services and agriculture. A final session presented the outcomes of ECLAC-GIZ project "Sustainable Energy in the Caribbean: Reducing the Carbon Footprint in the Caribbean through the Promotion of Energy Efficiency and the Use of Renewable Energy Technologies", including a roadmap to transition government fleets to energy efficient vehicles, as well as a summary of the IDB's energy efficiency projects in the region.

10. The facilitators shared the experience of various governments in the region in the incorporation of energy efficiency indicators, best practices and future steps.

D. SUMMARY OF EVALUATION

11. This section of the report presents a summary of the comments provided by participants on the final day of the training. To elicit participants' feedback on diverse aspects of the course, an evaluation questionnaire was administered. The summary presents an account of all responses received from the participants.

12. The evaluation summary provided an account of participants' views of various aspects of the training course on energy efficiency indicators. Fourteen participants responded to the evaluation questionnaire, 5 female (38.5 per cent) and 8 male (61.5 per cent) (thirteen participants provided information on sex). The full list of participants is annexed to the report.

13. In terms of knowledge of the topic, 58.3 per cent of participants had received training on energy efficiency indicators, while 41.7 per cent had never received training on the subject.

TABLE 1
PRIOR TRAINING IN ENERGY EFFICIENCY INDICATORS

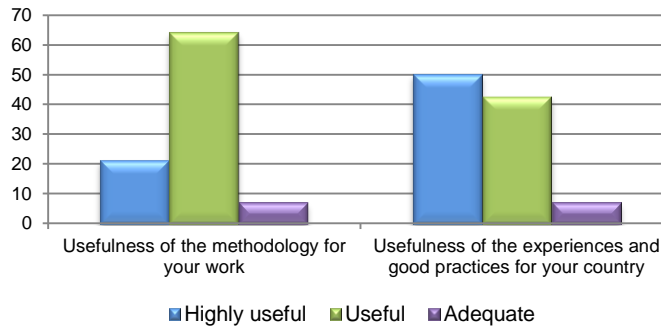
		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Yes	7	58.3	58.3
	No	5	41.7	100.0
	Total	12	100.0	

1. Substantive content

14. Most respondents (92.3 per cent) reported that the training course met their expectations.

15. In terms of the relevance of the training, 50 per cent considered that the topics and presentations were highly useful for their work, 42.9 per cent considered they were useful and 7.1 per cent rated them as adequate. Similarly, as regards the relevance of the recommendations given during the training, 50 per cent of participants rated them as highly useful, 35.7 per cent as useful, and 14.3 per cent as adequate. In this regard, it is worth noting that 85.7 per cent of participants agreed that the methodology was highly useful and useful for their work, 7.1 per cent rated it as adequate, and 7.1 per cent as inadequate.

FIGURE 1
PARTICIPANTS' FEEDBACK ON THE SUBSTANTIVE CONTENT OF THE WORKSHOP
Percentage

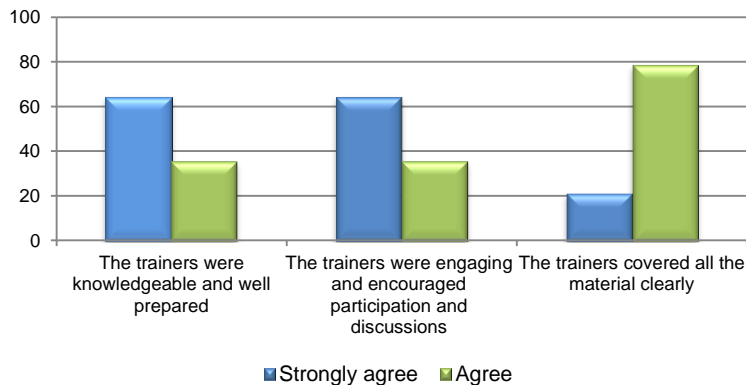


16. Ninety-two per cent of respondents agreed that the presentation of other countries' experiences and good practices was either highly useful (50 per cent) or useful (42.9 per cent), and 7.1 per cent considered them adequate (figure 1).

17. All respondents considered the course highly useful (21.4 per cent) or useful (78.6 per cent) in introducing them to new approaches, techniques and concepts. In this regard, most participants considered it very likely (57.1 per cent) or likely (28.6 per cent) that they would use the newly acquired knowledge in their daily work, while 14.3 per cent were neutral.

18. As regards the quality of the training, 100 per cent of the respondents strongly agreed (64.3 per cent) or agreed (35.7 per cent) that the trainers were knowledgeable and well prepared. Likewise, 21.4 per cent strongly agreed and 78.6 per cent agreed that all the materials were covered clearly (figure 2).

FIGURE 2
PARTICIPANTS' FEEDBACK ON THE FACILITATORS OF THE WORKSHOP
Percentage



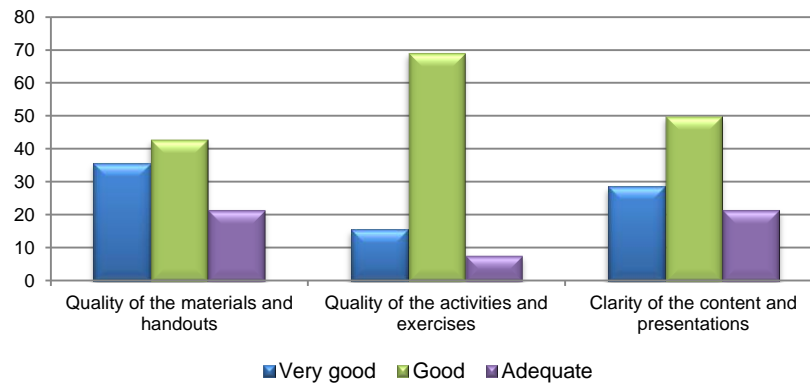
2. Organization of the course

19. Participants were asked to rate specific elements of the organization of the course using a 5-point scale. Approximately 64 per cent of respondents strongly agreed or agreed that the location of the training was convenient, while 28.6 per cent rated it as adequate and 7.1 per cent as inadequate; 71.4 per cent of participants strongly agreed or agreed that the space was comfortable and conducive to learning, and 28.6 per cent were neutral.

20. In terms of the materials and handouts, most respondents rated their quality as very good (35.7 per cent) or good (42.9 per cent), 21.4 per cent as adequate. Likewise, most participants rated the quality of the activities as very good (15.4 per cent) or good (69.2 per cent), while 7.1 per cent considered them adequate and 7.7 per cent as below average (figure 3).

21. Regarding the pace and structure of the sessions, 21.4 per cent of the participants agreed that it was very good, 64.3 per cent considered it was good, and 14.3 per cent rated it as adequate. Finally, 28.6 per cent of respondents rated the clarity of the content and presentations as very good, 50 per cent rated it as good and 21.4 per cent as adequate.

FIGURE 3
PARTICIPANTS' VIEWS ON THE ORGANIZATION OF THE WORKSHOP
Percentage



3. Responses and comments to open-ended questions

22. Among the general responses received to open-ended questions were the following:

What were the most important outcomes/recommendations of the course?

- Standardized methodology and tool for multiple sectors and countries
- Understanding the type of data required to complete the database
- Importance of energy efficiency data
- Economic and productive impacts of energy efficiency
- Data requirements and calculation of indicators

How do you intend/expect to apply the knowledge acquired in this training course?

- Improve data gathering, analysis and reporting
- Carry out assessments based on indicators and other supporting information
- Recommend the participation of the country in the BIEE programme
- Identify data that is not being collected

Strengths of the training

- Clarity of the presentations and materials
- Information on how to gather data and report indicators
- Comprehensive scope and materials
- Useful country experiences and international best practices

Areas of improvement

- Improve quality of slides
- Incorporate more information about the specific situation of the Caribbean
- Allocate more time for discussion and interaction with participants
- Develop online sessions to target a wider audience
- More hands-on application of the methodology
- Discuss applicability in the Caribbean

E. CONCLUSIONS

23. Overall, the training was highly valued, and the participants' responses reflected a high level of satisfaction with the content of the course. Participants understood the importance of collecting sectoral data permanently in order to have reliable baseline information. Once core concepts were clearly exposed, participants showed interest in continued support from ECLAC, specifically in regards to methods and lessons learned in terms of data collection and on ways of improving planning instruments.

24. Participants expressed their appreciation of the workshop, and signaled their commitment to sharing the acquired knowledge in order to prompt the participation of their countries in the BIEE programme. ECLAC informed participants about the procedure and the requirements to participate in the BIEE programme, and will be providing guidance to those countries that decide to join the project.

Annex I**LIST OF PARTICIPANTS**

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Annex II**Evaluation Form****WORKSHOP EVALUATION**

In an effort to assess the effectiveness and impact of this training course, kindly complete the following evaluation form. Your responses will be invaluable in providing feedback on the overall workshop, identifying areas of weakness and help improve the organization of future courses.

Sex Female Male**Age** 0 or under 31 – 40 41 – 50 51 or over**Sector** Public Private Academia Other (NGO, social organization, etc)**Country of origin:** _____**Institution(s) you represent:** _____**Title/Position:** _____1. Have you received training in energy efficiency prior to this course? Yes No

2. Content Delivery & Organization	Very Good	Good	Adequate	Below Average	Poor
Pace and structure of the sessions	[]	[]	[]	[]	[]
Quality of reference materials and handouts	[]	[]	[]	[]	[]
Quality of activities and exercises	[]	[]	[]	[]	[]
Clarity of the content and presentations	[]	[]	[]	[]	[]
How would you rate the course overall?	[]	[]	[]	[]	[]

3. Facilitator	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
The trainers were knowledgeable and well prepared	[]	[]	[]	[]	[]
The trainers were engaging and encouraged questions and participation	[]	[]	[]	[]	[]
The trainers covered all the material clearly	[]	[]	[]	[]	[]

4. Facilities	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
The location of the training was convenient	[]	[]	[]	[]	[]
The training space was comfortable and conducive to learning	[]	[]	[]	[]	[]

5. Impact	Highly Useful	Useful	Adequate	Inadequate	Highly Inadequate
Relevance of the topics and presentations for your work	[]	[]	[]	[]	[]
Relevance of the recommendations for your work	[]	[]	[]	[]	[]
Introduction to new approaches and techniques	[]	[]	[]	[]	[]
Usefulness of the methodology for your work	[]	[]	[]	[]	[]
Usefulness of the experiences and good practices for your country	[]	[]	[]	[]	[]

6. Did the training meet your expectations? Yes [] No []

7. What is the likelihood of using what you learned in this training?

Very Likely	Likely	Neutral	Unlikely	Highly Unlikely
[]	[]	[]	[]	[]

8. What were the most important outcomes/ recommendations of the course?

9. How do you intend/expect to apply the knowledge acquired in this training course?

10. Strengths of the training:

11. Areas of improvement (training):

THANK YOU

Annex III**RESPONSES TO CLOSE-ENDED QUESTIONS****Table 1. Sex**

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Female	5	38.5	38.5
	Male	8	61.5	100.0
	Total	13	100.0	

Table 2. Age

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	30 or under	3	25.0	25.0
	31-40	4	33.3	58.3
	41-50	3	25.0	83.3
	50 or over	2	16.7	100.0
	Total	12	100.0	

Table 3. Sector

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Public	11	100.0	100.0
	Total	11	100.0	

Table 4. Prior training in energy efficiency

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Yes	7	58.3	58.3
	No	5	41.7	100.0
	Total	12	100.0	

Table 5. Pace and structure of the sessions

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Very good	3	21.4	21.4
	Good	9	64.3	85.7
	Adequate	2	14.3	100.0
	Total	14	100.0	

Table 6. Quality of the materials and handouts

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Very good	5	35.7	35.7
	Good	6	42.9	78.6
	Adequate	3	21.4	100.0
	Total	14	100.0	

Table 7. Quality of the activities and exercises

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Very good	2	15.4	15.4
	Good	9	69.2	84.6
	Adequate	1	7.7	92.3
	Below average	1	7.7	100.0
	Total	13	100.0	

Table 8. Clarity of the content and presentations

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Very good	4	28.6	28.6
	Good	7	50.0	78.6
	Adequate	3	21.4	100.0
	Total	14	100.0	

Table 9. Overall rate of the course

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Very good	4	28.6	28.6
	Good	9	64.3	92.9
	Adequate	1	7.1	100.0
	Total	14	100.0	

Table 10. The trainers were knowledgeable and well prepared

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Strongly agree	9	64.3	64.3
	Agree	5	35.7	100.0
	Total	14	100.0	

Table 11. The trainers were engaging and encouraged participation and discussions

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Strongly agree	9	64.3	64.3
	Agree	5	35.7	100.0
	Total	14	100.0	

Table 12. The trainers covered all the material clearly

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Strongly agree	3	21.4	21.4
	Agree	11	78.6	100.0
	Total	14	100.0	

Table 13. The location of the training was convenient

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Strongly agree	6	42.9	42.9
	Agree	3	21.4	64.3
	Neutral	4	28.6	92.9
	Disagree	1	7.1	100.0
	Total	14	100.0	

Table 14. The training space was comfortable and conducive to learning

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Strongly agree	5	35.7	35.7
	Agree	5	35.7	71.4
	Neutral	4	28.6	100.0
	Total	14	100.0	

Table 15. Relevance of the topics and presentations for your work

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Highly useful	7	50.0	50.0
	Useful	6	42.9	92.9
	Adequate	1	7.1	100.0
	Total	14	100.0	

Table 16. Relevance of the recommendations for your work

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Highly useful	7	50.0	50.0
	Useful	5	35.7	85.7
	Adequate	2	14.3	100.0
	Total	14	100.0	

Table 17. Introduction to new approaches, techniques and concepts

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Highly useful	3	21.4	21.4
	Useful	11	78.6	100.0
	Total	14	100.0	

Table 18. Usefulness of the methodology for your work

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Highly useful	3	21.4	21.4
	Useful	9	64.3	85.7
	Adequate	1	7.1	92.9
	Inadequate	1	7.1	100.0
	Total	14	100.0	

Table 19. Usefulness of the experiences and good practices for your country

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Highly useful	7	50.0	50.0
	Useful	6	42.9	92.9
	Adequate	1	7.1	100.0
	Total	14	100.0	

Table 20. Did the training meet your expectations?

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Yes	12	92.3	92.3
	No	1	7.7	100.0
	Total	13	100.0	

Table 21. What is the likelihood of using what you learned in this training?

		<i>Frequency</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Very likely	8	57.1	57.1
	Likely	4	28.6	85.7
	Neutral	2	14.3	100.0
	Total	14	100.0	



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