



ENERGee Watch

D3.5 Reports on Experiences and Showcase of Successfully Implemented Learning Programs in Learning Cycle 2

October 2022

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Preface

The overall aim of ENERGee WATCH is to launch an easy and replicable peer-to-peer learning programme to enable regional and local authorities to timely and accurately define, monitor, and verify their sustainable actions. The programme focuses on regional/provincial authorities and their agencies that are responsible for collecting and overseeing the monitoring of mitigation and adaptation measure indicators in order to empower them to make use of best practices. The learning programme is structured in four (4) courses: i) data collection, ii) monitoring & verification, iii) indicators for adaptation to climate change, iv) data display, dissemination, and validation by final users. ENERGee Watch has launched 4 courses per year (one per topic, twelve in total) to reach a total of 72 participating mentees. The learning programme includes tools such as mentoring, site visits, tailored guidebooks, and guided practice exchange which enable the proper matching of peer groups and proper knowledge replication.

No	Participant Name	Short Name	Country Code	Logo
1	Institute for European Energy and Climate Policy (IEECP)	NETHERLANDS	NL	
2	European Federation of Regions and Energy agencies (FEDARENE)	BELGIUM	BE	
3	Technoeconomics of Energy and Environmental Systems Laboratory – University of Piraeus (UPRC – Teeslab)	GREECE	GR	
4	Auvergne-Rhône-Alpes Energy Environment (AURA-EE)	FRANCE	FR	
5	Energy Agency of Savinjska, Šaleška and Koroška region (KSSENA)	SLOVENIA	SI	
6	Ile de France Regional Energy and Climate Agency (IAU IDF)	FRANCE	FR	
7	South East Energy Agency (3CEA)	IRELAND	IE	
8	Energy Agency of Plovdiv (EAP)	BULGARIA	BG	
9	Alba Local Energy Agency (ALEA)	ROMANIA	RO	
10	Cyprus Energy Agency (CEA)	CYPRUS	CY	





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Executive Summary

The second learning cycle of the peer-to-peer learning programme has been conducted in a hybrid format (both online and onsite) from June to July 2022. The four courses delivered in all cycles are as follows:

- Course 1: Data collection (acquisition and treatment)
- Course 2: Monitoring, reporting, verification: follow up on implementation of actions
- Course 3: Indicators and strategies on adaptation to climate change
- Course 4: Data display, dissemination, and validation by local authorities

Similar with LC1, the peer-to-peer online session and monitoring used an online system called Veri to help gather and safely keep data, as well as to track the course's progression. ENERGee Watch LC2 courses 2, 3, and 4 were conducted on-site in the mentor countries, while course 1 was conducted online due to the high travel expenses to the mentor country in Slovenia.

There were 21 participants across (14 mentees and 7 observers) from nine countries and 13 organisation in Cycle 2, representing multiple backgrounds and organizations, such as energy agencies and local authorities (city/municipality, county). In order to evaluate the effectiveness of the learning programme at the course level for mentees and observers, several surveys were conducted (assessment, satisfaction, action plan). According to the surveys (assessment and satisfaction), mentees generally improved their knowledge of course topics from not aware about the information taught to aware and very aware.



1 Implementation of Learning Cycle 2

A peer-to-peer learning programme (LP) has been launched by ENERGee Watch to help local and regional authorities define, monitor, and verify their sustainable actions in a timely and accurate manner. During the course of the programme, monitoring and evaluation surveys as well as the Veri online system, which is the same paperless approach adhering to GDPR guidelines used in LC1 (Learning Cycle 1), were used to collect and maintain course-related data.

ENERGee Watch's 2nd cycle of peer-to-peer learning started with the online Masterclass on April 4, 2022. The masterclass of LC2 (Learning Cycle 2) offered mentees the opportunity to familiarise themselves, select and change their courses before they began the courses. This masterclass brought mentors, administrators, and mentees together to introduce everyone and explore the broader course topics in ENERGee Watch.

Each mentee attended 1.5-2 days of training courses in the region of their mentor's organization, aside from course 1. The course study began on June 7 and concluded on July 7, 2022. In light of the difficulty of traveling to the mentor location, course 1 was conducted online. After attending the courses, mentees wrote an Action Plan for their region based on the lessons learned of their attended course. This Action Plan was written with the intention of implementing these actions which were to later be monitored by a workshop on 20 October 2022 for LC1 and LC2. At the workshop, mentees, observers, and mentors had the opportunity to discuss implementation and share their experiences applying the LP knowledge since the course's completion. These courses built on the feedback from LC1 and were taught in person for the first time as mentees were able to travel to the mentor's region.



Figure 1. Courses in ENERGee Watch

1.1 The Delivery of Topic Session

LC2 had a total of 8 meetings in which the on-site meeting lasted two days in the mentor's country, while course 1 was held online. Due to the topic being divided into 4-6 sessions within LC1, the total number of meetings in LC1 was greater than that of LC2, as mentees only met online, for a total of 30 meetings.

The VERI platform was used to send reminder emails to mentees and observers a week before the course began. Overall, 224 emails were sent to mentees, observers, and mentors shown in Table 1 below (with names of participants removed).

Table 1. Milestone email communication in LC2

ENERGee Watch LC2 email communication								
Welcome email	Letter of Commitment (LoC)	Covid Form	LOC reminder	LoC Reminder	LoC Reminder	Action Plan and Satisfaction survey	Energiee Watch - Reimbursement Form and 2 Surveys	Energiee Watch: Final Reminder
1	1	1	1	1	1	1	1	0
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	0	0	0	1	1	1
1	1	1	0	0	0	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	0	0	0	1	1	1
1	1	1	0	0	0	1	1	1
0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	1
61								
1	1	1	1	1	1	1	1	0
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	0
0	0	0	0	0	0	0	1	1
1	1	1	1	1	1	1	1	0
1	1	1	1	0	0	1	1	1
1	1	1	0	0	0	1	1	1
48								
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	0
1	1	1	1	1	1	1	1	0
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	0	0	0	1	1	1
1	1	1	0	0	0	1	1	1
1	1	1	1	1	1	1	1	1
64								
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	0
1	1	1	1	0	0	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	0	0	0	1	1	1
1	1	1	0	0	0	1	1	1
1	1	1	0	0	0	1	1	1
51								

ENERGee Watch LC2 topic sessions included testimony videos, interactive live sessions, case study examples, toolboxes, game cards, and spreadsheets. Before the session began, the administrator uploaded reading material and videos to the Veri system. Through the Veri platform, mentees and



observers could access handbooks, handouts, and other documents. **Figure 2** shows one of the sample material presentations in course 2.

Mentors in ENERGee Watch engaged mentees through group discussions, exercises, and a variety of learning tools, including audio and visual resources, for the topic sessions. As part of course 1, mentors used the EMBuild project (H2020), the Open Transport Map, the UITP, Eurostat, and the COPERT4 Transport Emissions Evaluation Model to assess the energy profile of the building stock. In course 2, business models were explained using MIRO (online whiteboard) and Canvas.

Course 3 used different types of material to deliver their topics such as testimony videos, live interventions, toolboxes (slides, documents, videos, replay), game cards, and spreadsheets. Testimony videos for each topic were given by:

- Liviu Stirbat – European Commission – European strategy on adaptation
- Petya Pishmisheva – Covenant of Mayor/tools and supports
- Tim Reeder – Thames Barrier
- Joao Dinis – Climate adaptation in Cascais
- Vivian Despoues/ Marion Fetet – Climate budget / I4CE
- Julie Roussel – Climate adaptation in Paris
- Erwan Cordeau – Cartographic tools / Institut Paris Region Tools associated with the diagnosis in course 3.



TOTAL	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Average household electricity consumption (kWh)	5,096	6,089	5,754	5,874	4,096	4,233	4,411	4,448	4,748	4,377
Average household energy consumption (MWh)	11,782.24	11,469.50	11,309.11	11,095.11	8,890.32	8,405.10	8,782.09	8,834.43	9,513.46	8,451.86
Average household CO2 emissions (tons)	5.95	5.90	5.68	5.58	4.60	4.20	4.35	4.37	4.70	4.23
Municipal buildings electricity consumption (kWh)	878,399	724,826	702,081	814,184	542,368	517,802	558,538	622,588	473,339	657,813
Share of renewable energy sources on Final Energy Consumption (%)	8.1%	8.5%	8.0%	8.4%	9.3%	9.4%	9.5%	9.3%	11.9%	12.2%
Increase/Decrease of energy consumption based on 2009 (%)	0.0%	-0.6%	-9.3%	-13.8%	-30.6%	-34.6%	-32.0%	-26.4%	-10.7%	-21.7%
National Average Electricity Consumption per capita - based on total el. Consum. (kWh)	6,003	5,819	5,425	5,129	4,467	4,408	4,422	4,604	4,320	4,497
Share of renewable energy sources on Electricity production (%)	0.0%	0.1%	0.2%	0.3%	0.4%	0.4%	0.4%	0.4%	0.5%	0.5%
Per capita electricity consumption (kWh)	5,305	5,389	4,967	4,886	4,122	3,957	3,966	3,975	3,852	3,915
Per capita energy consumption (kWh)	18,762.321	18,383.721	18,887.576	15,818.584	13,590.043	13,011.132	13,097.482	13,502.819	13,954.855	13,869.811
Tonnes of CO2 emissions	307,490	310,447	271,717	266,400	396,471	384,795	392,190	404,452	405,222	407,935
Average non-residential buildings energy consumption (MWh)							60,830.61			69,143.19

Figure 2. Sample presentation on course 2

Live intervention with a guest mentor in topic session could enhance the learning environment during the session, and was therefore encouraged. Guests could be external mentors, such as Marc Barra from Nature-based solutions giving live assistance in course 3. While toolboxes were provided in course 3, mentors also provided interactive materials such as game cards to raise awareness of a topic, for example, "Climate at stake" with associated rules (see figure 3).

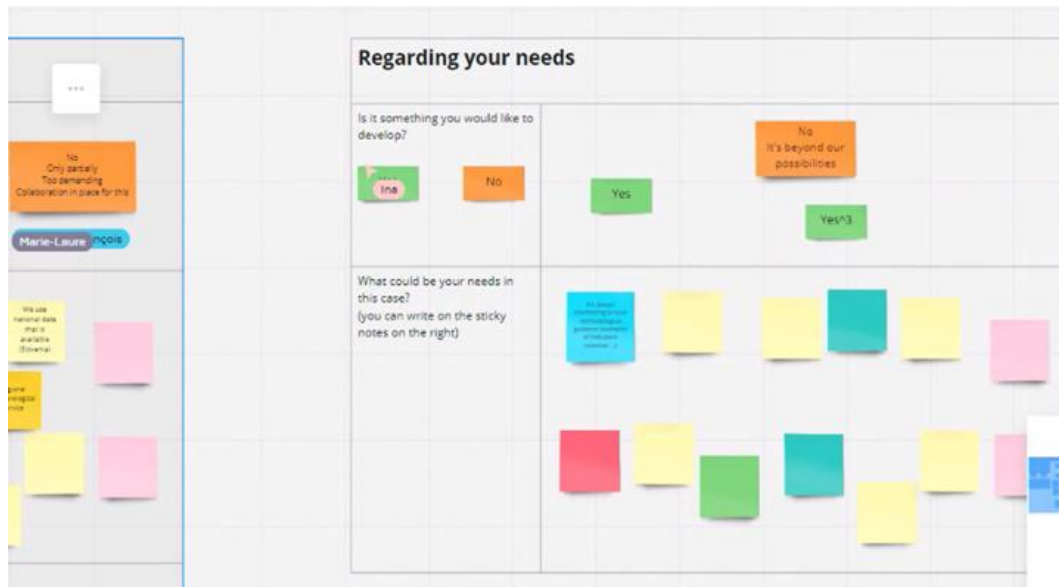


Figure 3. The interactive online tool used in the topic session i.e., course 3

Table 2. Climate Indicator

				Documentary references for indicators							Geographical scale of the indicator								
Category	P : Process E : Enabler R : Result	Theme	Indicator	Explanation of the indicator	DRIAS (French project for climate projections)	French National Observatory for the effects of climate change (ONERC)	Regional Observatory for Climate, Air and Energy (ORCAE)	Climate Observatory - Hauts de France	Climate-Adapt	Local climate or adaptation plan (extract)	Data providers 1	Data providers 2	Data providers 3	Europe	Regional	Local (municipal)	sub-municipal level	NA	Specific indicator
Climate hazard	E	Water and marine resources	Percentage of days for which maximum temperature is below -2°C during the winter season, and by "rain-days"																
Exposure / vulnerability	P	Agriculture and Forestry	Conditione favourable for the development of the bark beetle	Days of the insect population															
Exposure / vulnerability	P	Water and Biodiversity	Water exploitation index plus (WEI+) for river basin district (1970-2015)																
Exposure / vulnerability	P	Water and Biodiversity	Population and area exposed to water scarcity conditions in Europe (January 1950-2015)																
Exposure / vulnerability	P	Water and Biodiversity	Tourist numbers by country																
Exposure / vulnerability	P	Water and Biodiversity	Annual volume of water withdrawal	In tourist locations															
Exposure / vulnerability	P	Water and marine resources	Proportion of alpine ski areas in relation to snow conditions																
Exposure / vulnerability	P	Water and marine resources	Proportion of ski areas in the French region of northern Arvergne in relation to snow conditions																
Exposure / vulnerability	P	Water and marine resources	Evolution over time of tourism in alpine according to altitude of the location																
Exposure / vulnerability	R	Agriculture and Forestry	Evolution of agriculture practices	over time of the available sowing dates for two used crops: maize, corn and wheat															
Capacity to cope	R	Health and Society	Anties implemented in local ESCAR	Anties (aggregation of anties from different categories)															
Capacity to cope	R	Health and Society	Percentage of urban green spaces	The surface area of green spaces and large gardens in relation to the municipal surface area for the year 2013. It is of the most populated communes in the French county of Nord-Pas-de-Calais were studied															
Capacity to cope	R	Health and Society	Number of countries that have adopted a strategy of urban planning related to climate change adaptation																
Exposure / vulnerability	E	Health and Society	Population density	per km2, this indicator accounts for the risk of urban heat islands, which are reinforced by high density															
Exposure / vulnerability	E/P	Health and Society	Number of people aged 75+ in 2020	mortality of elderly people during extreme heat events. Focuses on the hospitalization rate in the case of more than 300 000 inhabitants, this indicator helps identify the areas where tourist activities are potentially threatened by climate effects															
Exposure / vulnerability	E	Tourism	Tourism intensity per municipality	rehabilitation of the site to climate effects, which is aggravated by the contribution of the ground (urban development, this indicator reflects the negative impact of air conditioning on urban heat															
Exposure / vulnerability and Capacity to cope	P/R	Urban planning	Air conditioning needs and their evolution																



Table 2 shows a sample of an online exercise from course 3 to provide an overview of indicators used by different national and local observatories for climate change impacts. The spreadsheet exercise was uploaded in the Veri platform so that mentees can access and upload the document after they have finished the exercise. The indicators are classified according to three categories: Pressure (P), State (S), and Response (R) for climate hazard, exposure/vulnerability, capacity to cope, and mix exposure/vulnerability. Documentary references and Geographical scale were provided for indicators (detailed indicator spreadsheet in Annex 2).

Course 4 started their topic session with an icebreaker (*klaxon app*) and questions regarding expectations from mentees related to the course. Course 4 delivered their topics through a PowerPoint presentation given by the mentor which was followed by Q&A which required interaction from the mentees. Presentations include examples that can lead to discussions between mentees and mentors. Presentation of data display tool: Inkscape, TableauPublic, eSankey, GIS tools, TerriSTORY, Adobe Illustrator, Microsoft Excel. Figure 4 shows an online tool to accompany territories with their energy objectives explained in course 4.

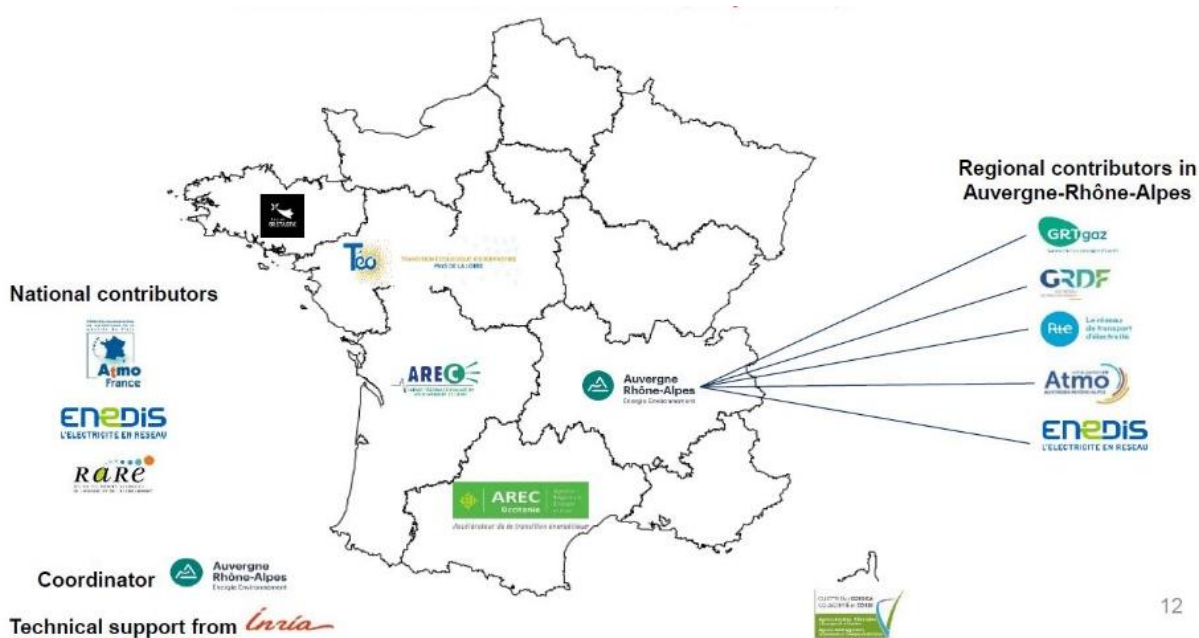


Figure 4. Online tool for territories with energy objectives (TerriSTORY)

1.2 Monitoring Learning Session

Learning cycle 2 mentees and observers came from a variety of backgrounds and organisations, including energy agencies and local authorities (city/municipality, county), total of 21 participants with 14 mentees and 7 observers from nine countries and 13 organisation. During course 1, that had taken place online between June 7-8, 2022, eight mentees and observer participated out of 13 confirmed participants. There were two mentees and two observers who attended course 2 on site in Cyprus. In the meantime, 5 participants attended course 3 in Paris, and 4 participants attended course 4 in Lyon, France.

Table 3. Total Mentees and observers in LC2

Course	Mentee	Observer
Course 1 -DATA Collection	7	1
Course 2 - Data Monitoring	2	2
Course 3 - Indicators Climate Adaptation	3	2
Course 4 - Data Visualisation	2	2
Total	14	7

There were 9 countries across Europe that participated as mentees and observers in Learning Cycle 2, with specific details of the participants' countries from Bulgaria (5 participants), Romania (4 participants), Ireland (3 participants), Hungary (1 participant), Croatia, Cyprus, France, Italy, Portugal (2 participants) respectively (Figure 5). Each course in ENERGeE watch shows the diversity in mentees and observers that the courses are trans-national in focus.



Figure 5. Mentee's countries in Cycle 2 peer learning

Evidence of the mentee's attendance were collected from attendance lists (courses 2, 3, and 4) as well as screenshots taken by mentors (course 1) and sent to the admin. Figure 6 shows mentees attend course 4 in Lyon, France.



Figure 6. Course 4 in Lyon, France (LC2)

1.3 Course Feedback

Several surveys were implemented for evaluating learning effectiveness before, during and after the course's sessions for mentees and observers.

1.3.1 Assessment survey

The objective of the assessment survey is to assess the mentee's knowledge about the course topics before starting the learning exchanges. This information is crucial for assessing the quality of the course as well as for improving the learning programme and assessing its impact. The assessment survey consists of two similar main parts:

- What do you already know about course?
- How aware are you of each of the course topics?

1.3.1.1 Assessment survey results from the 2nd learning cycle

For **Course 1: Data collection (acquisition and treatment)** there were in total five respondents.

A range of responses on awareness was evident in the data collection course. Most of respondents were aware and fairly aware on data sharing agreements and collaborations, tools and methodologies for quality energy estimations. All results are given in the table below:

Table 4. Course 1: Data collection course specific assessment survey results

Question: a. Systematic, timely and periodic gathering of energy data	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	3
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	1
Not aware: I have never heard or received any information about the topic	0
Question: b. General knowledge on data sharing	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	3
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	1
Not aware: I have never heard or received any information about the topic	0
Question: c. Data sharing agreements and collaborations	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	3
Not aware: I have never heard or received any information about the topic	0
Question: d. Tools and methodologies for data retrieving	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	3
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	1
Not aware: I have never heard or received any information about the topic	1
Question: e. Tools and methodologies for quality energy estimations	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	1
Not aware: I have never heard or received any information about the topic	1
Question: f. Tools and methodologies for BEI calculation	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	1
Not aware: I have never heard or received any information about the topic	2

For **Course 2: Monitoring, reporting, verification: follow up on implementation of actions** there were in total four respondents. Response on the previous knowledge of course 2 range from fairly aware to very aware. Respondents were very aware on vision creation and key action needed to ensure political and administrative support for SECAPs. However, respondents were not aware of energy modelling and future scenarios. All results are given in the table below:

Table 5. Course 2: Monitoring, reporting, verification: follow up on implementation of actions course specific assessment survey results

Question: a. Vision creation and internal administrative structures	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	3
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
Question: b. Key actions needed to ensure political and administrative support for the successful implementation of a SECAP	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	3
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	0
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	1
Not aware: I have never heard or received any information about the topic	0
Question: c. Perform an energy data verification process	Responses



Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	1
Question: d. Energy modelling and future scenarios	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	1
Not aware: I have never heard or received any information about the topic	1
Question: e. Key financial indicators	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	4
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0

For **Course 3: Indicators and Strategies on Adaptation to Climate Change** there were in total two respondents.

There was a range from very aware, to not aware on the indicators and Strategies on Adaptation to Climate Change. Most of respondents were fairly aware on prefigure and adaptation to climate change policy in their territory, methods and tools to assess adaptation policies. All results are given in the table below:

Table 6. Course 3: Indicators and Strategies on Adaptation to Climate Change course specific assessment survey results

Question: a. Concepts and notions associated with adaptation to climate change	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
Question: b. Climate impacts and associated effects	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
Question: c. Prefigure and adaptation to climate change policy on your territory	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	1
Not aware: I have never heard or received any information about the topic	0
Question: d. Methods and tools to assess adaptation policies	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	0
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	2
Not aware: I have never heard or received any information about the topic	0

For **Course 4: Data display, dissemination, and validation by local authorities** there were in total three responses. All of them were very aware and aware on Data display, dissemination, and validation by local authorities. All results are given in the table below:

Table 7. Course 4: Data display, dissemination, and validation by local authorities' course specific assessment survey results

Question: a. Analysing the audience and their needs	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
Question: b. Assessment of data display methods for the objective, audience and desired response	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	0
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	2
Not aware: I have never heard or received any information about the topic	0
Question: c. Role of data in making decisions	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	2
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
Question: d. Data visualisation as a persuasive tool	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
Question: e. Data manipulation to suit different representation styles	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
Question: f. Data dissemination and display options	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	1
Not aware: I have never heard or received any information about the topic	0

1.3.2 Satisfaction survey

The Satisfaction survey is a short questionnaire requiring feedback from participants to improve future courses. There were a few course-specific questions, asking how aware the mentee is, about each of the objectives of the course. This helped the course mentors to understand which objectives should be covered in more depth in the next cycles.

The other questions are same for all four courses:

2. TO WHAT EXTEND DO YOU AGREE WITH THE FOLLOWING STATEMENTS?

- a. The course met my expectations/needs
- b. I gained useful knowledge and information
- c. The information given was relevant for my work
- d. I will be able to apply the knowledge and information gained in the course
- e. I am satisfied with the timeframe/duration of the course
- f. I am satisfied with the guidance and support provided by the mentor
- g. I am satisfied with the learning materials

3. HOW LIKELY ARE YOU TO RECOMMEND THIS COURSE TO OTHER LOCAL AUTHORITIES, REGIONS OR ENERGY AGENCIES?

4. WHAT OTHER LEARNING MATERIAL OR LEARNING ACTIVITIES WOULD YOU LIKE TO SEE IN THIS COURSE?

5. DO YOU HAVE ANY FURTHER SUGGESTIONS TO IMPROVE THE COURSE AND/OR THE OVERALL ENERGEE WATCH LEARNING PROGRAMME?

1.3.2.1 Satisfaction survey results from the 2nd learning cycle

A total of 10 mentees responded to the satisfaction survey. All of them either agreed or strongly agreed about the positive statements about our programme. There were no "neutral", "somewhat disagree" or "strongly disagree" responses to any of the general questions asked. Here are the general responses:

- a. The **course expectations were met for all mentees**, with 8 "strongly agree" and 2 "agree" responses
- b. All mentees report they **gained useful knowledge**, with 8 "strongly agree" and 2 "agree" responses
- c. All mentees agreed that the **information given was relevant for their work**, with 8 "strongly agree" and 2 "agree" responses
- d. All mentees stated they will be able to **apply the knowledge and information gained** in the course, with 6 "strongly agree" and 4 "agree" responses
- e. Eight mentees were very satisfied, and four were satisfied with the **timeframe/duration** of the course
- f. Nine mentees were very satisfied, and one was satisfied, with the **guidance and support** provided by the mentor
- g. Nine mentees were strongly satisfied, and three satisfied with the **learning materials**.

Ten mentees very likely will recommend the ENERGee Watch courses to other local authorities, regions or energy agencies. The rest of the questions were course specific and asked how aware the mentees are of all the topics/objectives covered by the course.



For **Course 1: Data collection (acquisition and treatment)** there were in total two respondents. All of them were aware or very aware of all course topic offered. All results are given in the table below:

Table 8. Course 1: Data collection course specific satisfaction survey results

How aware are you of each of the course topics listed below?	
a. Systematic, timely and periodic gathering of energy data	
	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
b. General knowledge on data sharing	
	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
c. Data sharing agreements and collaborations	
	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
d. Tools and methodologies for data retrieving	
	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
e. Tools and methodologies for quality energy estimations	
	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
f. Tools and methodologies for BEI calculation	
	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0

2. To What Extend Do You Agree with The Following Statements?	
a. The course met my expectations/needs	Responses
Strongly agree	1
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
I gained useful knowledge and information	Responses
Strongly agree	1
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
c. The information given was relevant for my work	Responses
Strongly agree	1
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
d. I will be able to apply the knowledge and information gained in the course	Responses
Strongly agree	0
Somewhat agree	2
Neutral	0
Somewhat disagree	0
Strongly disagree	0
e. I am satisfied with the timeframe/duration of the course	Responses
Strongly agree	1
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
f. I am satisfied with the guidance and support provided by the mentor	Responses
Strongly agree	1
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
g. I am satisfied with the learning materials	Responses
Strongly agree	2
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
Question: 3. HOW LIKELY ARE YOU TO RECOMMEND THIS COURSE TO OTHER LOCAL AUTHORITIES, REGIONS OR ENERGY AGENCIES?	Responses
Very likely	2
Likely	0



For **Course 2: Monitoring, reporting, verification: follow up on implementation of actions** there were in total three respondents. Mentees were either very aware or aware of all course objectives covered. All results are given in the table below:

Table 9. Course 2: Monitoring, reporting, verification: follow up on implementation of actions course specific satisfaction survey results

How aware are you of each of the course topics listed below?	
a. Vision creation and internal administrative structures	
	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	2
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
b. Key actions needed to ensure political and administrative support for the successful implementation of a SECAP	
	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	2
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
c. Perform an energy data verification process	
	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	2
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0

d. Energy modelling and future scenarios	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
e. Key financial indicators	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	2
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
f. Visualise sustainable energy project ideas on Sustainable Business Model Canvas	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	2
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
g. Feasibility and environmental analysis for energy projects	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	3
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	0
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
h. Plan and monitor the progress and the impact of SECAP actions	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	3
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	0
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
2. TO WHAT EXTEND DO YOU AGREE WITH THE FOLLOWING STATEMENTS?	
a. The course met my expectations/needs	Responses
Strongly agree	2
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
b. I gained useful knowledge and information	Responses
Strongly agree	2
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
c. The information given was relevant for my work	Responses



Strongly agree	2
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
d. I will be able to apply the knowledge and information gained in the course	Responses
Strongly agree	2
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
e. I am satisfied with the timeframe/duration of the course	Responses
Strongly agree	2
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
f. I am satisfied with the guidance and support provided by the mentor	Responses
Strongly agree	3
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
g. I am satisfied with the learning materials	Responses
Strongly agree	2
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
3.HOW LIKELY ARE YOU TO RECOMMEND THIS COURSE TO OTHER LOCAL AUTHORITIES, REGIONS OR ENERGY AGENCIES?	Responses
Very likely	3
Likely	0
Not likely	0

For **Course 3: Indicators and Strategies on Adaptation to Climate Change** there were in total one respondent.

Mentees were aware or very aware of all but one course topic offered. All results are given in the table below:



Table 10. Course 3: Indicators and Strategies on Adaptation to Climate Change course specific satisfaction survey results

How aware are you of each of the course topics listed below?	
a. Concepts and notions associated with adaptation to climate change	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	0
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
b. Climate impacts and associated effects	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	0
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
c. Prefigure an adaptation to climate change policy on your territory	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	0
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
d. Methods and tools to assess adaptation policies	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	0
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
2. TO WHAT EXTENT DO YOU AGREE WITH THE FOLLOWING STATEMENTS?	
a. The course met my expectations/needs	Responses
Strongly agree	1
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
b. I gained useful knowledge and information	Responses
Strongly agree	1
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
c. The information given was relevant for my work	Responses
Strongly agree	1
Somewhat agree	0
Neutral	0



Somewhat disagree	0
Strongly disagree	0
d. I will be able to apply the knowledge and information gained in the course	Responses
Strongly agree	1
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
e. I am satisfied with the timeframe/duration of the course	Responses
Strongly agree	1
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
f. I am satisfied with the guidance and support provided by the mentor	Responses
Strongly agree	1
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
g. I am satisfied with the learning materials	Responses
Strongly agree	1
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
Question: 3. HOW LIKELY ARE YOU TO RECOMMEND THIS COURSE TO OTHER LOCAL AUTHORITIES, REGIONS OR ENERGY AGENCIES?	Responses
Very likely	1
Likely	0
Not likely	0

For **Course 4: Data display, dissemination, and validation by local authorities** there was four answer. The mentee was either aware or very aware of all course topic offered. All results are given in the table below:

Table 11. Course 4: Data display, dissemination, and validation by local authorities' course specific satisfaction survey results

How aware are you of each of the course topics listed below?	
a. Analysing the audience and their needs	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	3
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
b. Assessment of data display methods for the objective, audience and desired response	Responses

Very aware: I have knowledge and experience about the topic and have used/applied it in my work	2
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
c. Role of data in making decisions	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	2
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
d. Data visualisation as a persuasive tool	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	3
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
e. Data manipulation to suit different representation styles	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	2
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	2
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
f. Data dissemination and display options	Responses
Very aware: I have knowledge and experience about the topic and have used/applied it in my work	1
Aware: I have a clear idea about the topic and can provide examples of its application, but I have never used/applied it in my work	3
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	0
Not aware: I have never heard or received any information about the topic	0
2. TO WHAT EXTEND DO YOU AGREE WITH THE FOLLOWING STATEMENTS?	
a. The course met my expectations/needs	Responses
Strongly agree	4
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
b. I gained useful knowledge and information	Responses
Strongly agree	4
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
The information given was relevant for my work	Responses
Strongly agree	4



Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
d. I will be able to apply the knowledge and information gained in the course	Responses
Strongly agree	3
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
e. I am satisfied with the timeframe/duration of the course	Responses
Strongly agree	4
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
f. I am satisfied with the guidance and support provided by the mentor	Responses
Strongly agree	4
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
g. I am satisfied with the learning materials	Responses
Strongly agree	4
Somewhat agree	0
Neutral	0
Somewhat disagree	0
Strongly disagree	0
Question: 3. HOW LIKELY ARE YOU TO RECOMMEND THIS COURSE TO OTHER LOCAL AUTHORITIES, REGIONS OR ENERGY AGENCIES?	Responses
Very likely	4
Likely	0
Not likely	0

1.3.3 Conclusions from the assessment and the satisfaction survey

Both the assessment and the satisfaction survey contained the same questions. During the assessment survey conducted before the course started, mentees were fairly aware of and aware of the topics covered in the course. As a result of completing the course, mentees gain more knowledge about the topics covered in the course, and the satisfaction survey showed that they were very aware of and aware of those topics.

However, what is also evident is that on most of the questions in all courses, there is no one not aware of the topic, while in the beginning a substantial amount of replies were either “not aware” or “fairly aware” with the topic. This demonstrates that, after going through the course, all mentees were either aware or very aware of all topics mentored to them.



1.4 Action Plan

The ENERGee Watch Action Plan aims to verify the geographic origin of the mentees, check how the mentees are planning to implement the knowledge gained from P2P, to motivate them to further develop their plans, to meet additional participants, and to collect MRV best practices. The results of all parts of the Action Plans can be found in the supporting documentation of ENERGee Watch D4.1.

1.5 Challenges to Peer-to-Peer Deliverable in Cycle 2

Overall, the peer-learning in Cycle 2 was conducted successfully with onsite and online training. There was one main challenge related to peer learning process during Cycle 2;

- *Mentee's commitment or engagement*

Securing mentee's commitment or engagement was a major challenge that ENERGee Watch peer-learning programme had faced. Before the course started, mentees were required to sign their commitment letter and upload to the Veri platform. However, this action cannot guarantee the mentees' commitment. During the peer-to-peer topic seasons, some mentees withdrew, changed jobs or did not attending the course from the beginning.

Instructional design efforts, training materials and technological innovations cannot help to engage mentees unless mentees take the step of starting the course and navigating its content in the first place. Therefore, in the next cycle (cycle 3), all course materials such as handbooks, handouts, video, publications and other relate-course materials will be uploaded on the Veri platform prior to the commencement of the course, to improve mentee engagement in the programme by providing insight into the materials that will be covered.

In order to assess course engagement improvements, the administrator and mentors set the clear indicators and data analysis methodologies that enable them to measure engagement, such as:

- a) Monitoring the percentage of participation in critical weeks, with clear indicators that showed when to intervene and which actions could increase participation.
- b) Participant support strategies
Participants (mentees and observers) need to become familiar with the platform (Veri platform) and the course methodology. Due to work commitments, conflicting schedules, and various other factors, certain mentees were unable to participate in the course held in the mentor's country during Cycle 2. The hybrid course offers a beneficial solution for mentees participating in the cycle 3 sessions.



1.6 Key learnings from the course

The training will help to enhance the needs of the territories in attendance and facilitate ongoing or future projects by helping mentees to apply the knowledge gained to regular tasks and activities through:

- Updating **data collection and management** methods
- New **data evaluation** methods
- Ensuring **better quality, monitoring, verification/evaluation, and reporting of SECAPs**, expanding support periods for municipalities and attracting more investors
- Instructions and **guidelines for the preparation of municipal SECAPs**
- **Involvement of stakeholders** in SECAP and project development
- **Deepening knowledge** in developing energy and climate plans for all employees so that everyone has the same level of knowledge in the field
- Creation of **business plan using canvas method** in ongoing projects, business plans, feasibility and environmental analyses for sustainable energy projects and climate mitigation actions
- **Communication and dissemination improvement** via data visualization
- Improve the organisation's **indicators and strategies on adaptation** to climate change
- Better **framing of activities** to better serve the needs of the territory
- **Improving the organisation's indicators and strategies** on adaptation to climate change

