ENERGee Watch

D3.5 Reports on Experiences and Showcase of Successfully Implemented Learning Programs in Learning Cycle 3

January 2023

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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

ENERGee Watch's third learning cycle (LC3) began with an introduction webinar on October 3, 2022, followed by the core peer-to-peer learning session in Brussels on November 15-16, 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

LC3 topics were similar to those covered in previous Learning Cycles (LC1 and LC2), with course 1 focusing on SECAP – data collection for baseline review, energy management, energy supply and production, and transportation. Topics covered in course 2 include Vision setting; Establishing an Energy & Climate Team; Energy Modelling and Scenarios; Data Processing and Verification, Implementation & Successful Monitoring; Sustainable business model canvas and financial feasibility analysis; Study case NBS business model for cities; Sustainable business model canvas in practice, and Economics of Climate. Course 3 covered topics such as Strategy development/actions plan; Establishing a diagnosis; Building and implementing an action plan for adaptation, with examples of the Cities of Paris and Vancouver; The fundamentals of climate change adaptation; and the fundamentals of assessment for adaptation. Lastly, course 4 focused on Data display, dissemination and validation by local authorities; Identifying the information needs of the end-users; Data manipulation and presentation in an effective manner; terristory® an online tool to accompany territories with their energy objective; as well as data dissemination.

A total of 36 mentees and 4 observers participated in learning cycle 3 from 26 organizations including energy agencies, local authorities (city, municipality, county), from 13 countries across Europe.

Several surveys were conducted to evaluate the effectiveness of the course's sessions for both mentees and observers, including a need assessment survey, an assessment survey, a stakeholder survey, an action plan survey, a satisfaction survey, and a mentee journey survey. The surveys (assessment and satisfaction) indicated that mentees generally improved from not aware to aware to very aware of course topics.

1   Implementation of Learning Cycle 3

ENERGee Watch's 3rd cycle of peer-to-peer learning began with an introductory webinar (Masterclass) on October 3, 2022. The introductory webinar offered mentees the opportunity to select and change their courses before they began the course. An introductory webinar bringing together mentors, administrators, and mentees allowed for everyone to learn more about ENERGee Watch and explore broader course topics. The following items were on the agenda for the introduction webinar:

- Presentation by IEECP on the ENERGee Watch programme
- Presentation of the Veri platform, surveys, etc. by the South East Energy Agency
- Mentors present their course in breakout rooms, where they meet potential mentees and answer their questions about the programme.

The ENERGee Watch peer-to-peer learning programme addresses the challenges associated with energy and climate data collection, monitoring, processing or communication. During the programme, participants attended the course in Brussels or online (hybrid) on 15-16 November 2022.

The participants had a choice from 4 different courses, developed and delivered by experts in the field:
1. Energy Data collection (acquisition and treatment)
2. Monitoring, Reporting, Verification: follow up on implementation of actions
3. Indicators and strategies on adaptation to Climate Change
4. Data display, dissemination and validation by end users

Course 1: Data collection (acquisition and treatment)	Course 2: Monitoring, reporting, verification: follow up on the implementation of actions
Mentored by **Boštjan Krajnc,** *Energy Agency of Savinjska,Šaleska and Koroška Region, Slovenia*	Mentored by **Savvas Vlachos, Myrto Skouroupathi, Charis Kordatos,** *Cyprus Energy Agency Cyprus*
Course 3: Indicators and strategies on adaptation to climate change	**Course 4: Data display, dissemination, and validation by local authorities**
Mentored by **Sandra Garrigou, Marie-Laure Falque-Masset** *Ile de France Regional Energy and Climate Agency, France*	Mentored by **Thomas Knight,** *Auvergne Rhône Alpes Energie Environnement, France*

Figure 1. Courses in ENERGee Watch

ENERGee Watch

Figure 2. Timeline of ENERGee watch programme

The ENERGee Watch peer-to-peer learning programme had been launched to help local and regional authorities define, monitor, and verify their sustainable actions in a timely and accurate manner. As a general guideline, each cycle, of which there were 3 in the programme, was expected to last between four and six months, beginning with the introductory webinar and ending with the implementation of action plan. During monitoring and evaluation surveys, the Veri online system, which is similar to the previous learning cycle, was used to collect and maintain course-related data. In terms of data protection information, VERI is a sustainable solution offering a paperless approach and adhering to GDPR.

Veri platform offers the following advantages over traditional platforms:

- *Data Gathering* - Data about profiles and programs is collected in a digital record by Veri.
- *Data Quality* - Data quality is maintained by Veri through Prepopulated Actions, Ensure Data Quality, and Enforce Data Quality
- *Data Imports/Exports* - Veri customizes data imports and exports in accordance with quality standards
- *Data Harvesting* - Veri uses AI (Artificial Intelligence) for data analytics and benchmarking standards and compliance
- *Indicator Data* - Veri monitors Attendance, Certification, and Progression.
- *Evaluation Data* - Veri is capable of conducting the baseline diagnostic, skills competency assessment, and feedback assessment
- *Remote Data Capture and Automated Communication* - Veri provides course scheduling and remote call integration services
- *Data Reporting* - Veri provides Live Updates, Report Generation, and Empowering Improvement Data-Driven Decisions
- *Data Productivity* - Veri provides Red Banner Exception Reporting and Milestone Triggers/Notifications

As part of its function in ENERGee Watch, Veri gathered and safeguarded the personal information of mentors, observers, and mentees, tracked mentee progress, and shared program materials and documents. During the course cycles, Veri managed the email communications for the online masterclass and training, including the task of sharing the link to the meeting and gathering data for surveys.

1.1 The Delivery of the Course's Topics

Course 1: Data Collection (acquisition and treatment)

The overall aim of ENERGee WATCH is enable regional and local authorities to timely and accurately define, monitor, and verify their sustainable actions via a peer-to-peer learning program. The learning process targets regional and/or provincial authorities and their agencies and observatories that are responsible for collecting and overseeing the monitoring of mitigation and adaptation indicators to empower them to make use of the best practices. Course 1 was broken into 4 topics:
- Topic 1: SECAP – data collection for baseline review,
- Topic 2: Energy management,
- Topic 3: Energy supply and production,
- Topic 4: Transport

Target audience for Course 1 Data Collection

This course was aimed at professionals at the regional and local levels, that are responsible for energy data collection and would like to learn more on how to tackle challenges connected to gathering quality and comprehensive energy data. It was aimed at those who should or could play a key role in improving data sharing to accelerate the achievement of EU climate goals.

Course 2: Monitoring, Reporting, Verification

Course 2, "Monitoring, revision and verification of data" emphasised the enhancement of the capacity of local authorities to implement sustainable projects through:
- Development of internal administrative structures for the successful implementation and monitoring of sustainable energy action plans (roles, support, prioritization, budgeting, and tools)
- Process to verify energy data
- Data quality improvement
- Development of business plans, feasibility, and environmental analysis for sustainable energy Projects

To achieve these objectives, course 2 consisted of the topics below:
- Topic 1: Vision Setting
- Topic 2: Establishing an Energy & Climate Team
- Topic 3: Data Processing and Verification
- Topic 4: Energy Modelling and Scenarios
- Topic 5: Sustainable business model canvas and financial feasibility analysis
- Topic 6: Implementation & successful monitoring
- Topic 7: Study case NBS business model for cities
- Topic 8: Sustainable business model canvas in practice

- Topic 9: Economics of Climate

Target audience for course 2: Monitoring, Reporting, Verification

The training course was addressed to a) local authorities' staff which are directly related to the SECAP implementation, and to b) support structures (energy agencies) that provide technical support and expertise. The candidates had the opportunity to empower their knowledge in critical issues for the successful implementation of the SECAPs.

Course 3: Indicators and Strategies on Adaptation to Climate Change

Course 3 was focused on adapting to climate change initiatives and is intended to clarify the concept, offer keys to understanding this discipline, as well as provide insight into methodologies, systems, and tools to assist public actors in their climate change efforts. During the exercise, participants would be guided in building their own roadmaps to ensure that climate change adaptation is fully integrated into energy-climate action plans. Course 3 covered topics such as:

- Strategy development / actions plan
- Establishing a diagnosis
- Building and implementing an action plan for adaptation: Examples of the Cities of Paris and Vancouver
- The fundamentals of climate change adaptation
- The fundamentals of assessment for adaptation

Target audience of Course 3 Indicators and Strategies on Adaptation to Climate Change

The course was particularly aimed at territorial public actors responsible for energy-climate policies and the structures (e.g., local energy agency) supporting them in the deployment of these policies. The objective was to facilitate the inclusion of adaptation to climate change and the transition to action in order to face the current and future challenges for the territories.

Course 4: Data Display, Dissemination, and Validation by Local Authorities

ENERGee Watch Course 4 covered how to identify the key factors that determine how to disseminate data (regulations, targets, usage, etc.). It also covered how to identify key recipients and stakeholders, teaching mentees how to identify their needs and expectations, collect the data, and get it into the required format. Some methods and tools to represent and illustrate data patterns and messages in data (graphs, Sankey diagrams, maps, etc.) were also be covered in this course. Finally, how to efficiently disseminate this data and the subsequent messages (technical reports, newsletters, online tools, etc.) was taught too. Course 4 sought to achieve its objectives over 6 topics:

- Topic 1: Data display : What determines effective Communication of data?
- Topic 2: Identifying the information needs of end-users
- Topic 3: Data manipulation and presentation in an effective manner
- Topic 4: Implementing data display tools
- Topic 5: TerriSTORY®, an online tool to accompany territories with their energy objectives
- Topic 6: Data dissemination

Target audience of Course 4: Data Display, Dissemination, and Validation by Local Authorities

This course aimed to identify how to best communicate a dataset or to portray certain messages in the data. Throughout the course, key topics necessary to ensure effective and complete communication of data and information were covered. Some current challenges that this course could rectify include; a lack of interaction with recipients of datasets, the misunderstanding of datasets, difficulty in portraying messages that are in the data, a requirement for datasets to be communicated in a particular way, a need to find more innovative/representative data visualisation methods, or simply an interest to develop links with existing innovative tools.

1.2   Monitoring Learning Session

As part of Learning Cycle 3, mentees and observers came from a variety of backgrounds and organizations, including energy agencies as well as local governments (city/municipality, county). During the course, 40 total participants took part, with 22 mentees participating online, and 14 mentees and 4 observers attending in Brussels from 15-16 November 2022.

Table 1. Total Mentees and observers for each course in LC3

Course	Mentee	Observer
Course 1 - Data Collection	6	1
Course 2 - Data Monitoring	9	1
Course 3 - Indicators Climate Adaptation	17	1
Course 4 - Data Visualisation	4	1
Total	**36**	**4**

There were 26 organisations represented in LC3 withing which 23 organisations were new to the ENERGee Watch LP. There were 13 countries across Europe that participated as mentees and observers in Learning Cycle 3, with from Albania (1 participant), Austria (1 participant), Bulgaria (3 participants, Croatia (4 participants), Cyprus (3 participants), Greece (5 participants), Ireland (4 participants) , Italy (6 participants), Montenegro (1 participant), North Macedonia (1 participant), Poland (4 participants), Portugal (7 participants), and Romania (4 participants) respectively (Figure 3). Each course was diverse in both mentees and observers.

Figure 3. Mentee's countries in Cycle 3 peer-to-peer learning

1.3 Course Feedback

Several surveys were conducted for the purpose of assessing the effectiveness of learning before, during, and after the course for mentees and observers, such as a needs assessment, assessment, satisfaction, and action plan surveys, and a mentee experience survey.

1.3.1 Assessment survey

The objective of the assessment survey is to assess the mentee's knowledge about the course topics <u>before</u> starting the learning exchanges. This information is crucial for assessing the quality of the course 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 3rd learning cycle

For **Course 1: Data collection (acquisition and treatment)** there were in total 6 respondents

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

Table 2. Course 1: Data collection course specific assessment survey result

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	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	3
Not aware: I have never heard or received any information about the topic	1
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	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	4
Not aware: I have never heard or received any information about the topic	1
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	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	5
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	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	5
Not aware: I have never heard or received any information about the topic	0
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	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	4
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	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	4
Not aware: I have never heard or received any information about the topic	1

For **Course 2: Monitoring, reporting, verification: follow up on implementation of actions** there were in total 9 respondents. According to the survey results, most respondents were fairly aware and not aware regarding Monitoring, reporting, and verification: follow up on the implementation of actions. Several respondents indicated that mentees are not aware of the process for verifying energy data. All results are given in the table below:

Table 3. Course 2: Monitoring, reporting, verification: follow up on implementation of actions course specific assessment survey result

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	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	7
Not aware: I have never heard or received any information about the topic	1
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	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	5
Not aware: I have never heard or received any information about the topic	2
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	1
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	4
Not aware: I have never heard or received any information about the topic	3
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	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	5
Not aware: I have never heard or received any information about the topic	2
Question: e. Key financial indicators	**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	4
Not aware: I have never heard or received any information about the topic	2

For **Course 3: Indicators and Strategies on Adaptation to Climate Change** there were in total 18 respondents.

There was a range from aware to not aware on the indicators and Strategies on Adaptation to Climate Change. Most of respondents were aware and/or fairly aware on concepts and notions associated with adaptation to climate change, climate impacts and associated effects, and an adaptation to climate change policy in their territory. Despite these results, there were a high number of fairly aware and not aware survey respondents regarding methods and tools for assessing adaptation policies.

Table 4. 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	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	9
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	5
Not aware: I have never heard or received any information about the topic	1
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	4
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	8
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	4
Not aware: I have never heard or received any information about the topic	2
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	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	6
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	8
Not aware: I have never heard or received any information about the topic	2
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	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	4
Fairly aware: I have some idea about the topic, but wouldn't be able to explain it in detail	10
Not aware: I have never heard or received any information about the topic	3

For **Course 4: Data display, dissemination, and validation by local authorities** there were in total five participants.

The majority of respondents were fairly aware and aware on Data display, dissemination, and validation by local authorities. Despite the fact that participants were very aware of the importance of data in making decisions, they were unaware that data visualisation can be used as a persuasive tool as well as data manipulation. All results are given in the table below:

Table 5. 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	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	1
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	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	3
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	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	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: 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	1
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	1
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	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	2
Not aware: I have never heard or received any information about the topic	1
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	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	3
Not aware: I have never heard or received any information about the topic	0

1.3.2   Satisfaction survey

The Satisfaction survey is a 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 the success of this last cycle.

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 3rd learning cycle

From a group of 40 participants, 38 responded to the survey, yielding satisfactory results. The majority of respondents expressed strong agreement or agreement with the positive statements regarding the ENERGee Watch P2P program.

a. The **course expectations were met for all mentees**, with 22 "strongly agree", 13 "agree", and 3 "neutral" responses

b. All mentees report they **gained useful knowledge**, with 26 "strongly agree", 10 "agree", and 2 "neutral" responses

c. All mentees agreed that the **information given was relevant for their work**, with 22 "strongly agree" and 16 "agree" responses

d. All mentees stated they will be able to **apply the knowledge and information gained** in the course, with 17 "strongly agree", 18 "agree", 2 "neutral", and 1 "somehow disagree" responses

e. 26 mentees were very satisfied, 9 were satisfied, and 3 were neutral with the **timeframe/duration** of the course

f. 32 mentees were very satisfied, and 6 was satisfied, with the **guidance and support** provided by the mentor

g. 26 mentees were strongly satisfied, 10 were satisfied, and 2 neutral with the **learning materials**.

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 five respondents.

All of them were aware or very aware of all course topic offered. Mentees are only fairly aware of the topic in systematic and tool topic sessions. All results are given in the table below.

Table 6. 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	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
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	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	2
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	3
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
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	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	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
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	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
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	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
2. To What Extend Do You Agree with The Following Statements?	
a. The course met my expectations/needs	**Responses**
Strongly agree	2
Somewhat agree	3
Neutral	0

Somewhat disagree	0
Strongly disagree	0
b. I gained useful knowledge and information	**Responses**
Strongly agree	3
Somewhat agree	2
Neutral	0
Somewhat disagree	0
Strongly disagree	0
c. The information given was relevant for my work	**Responses**
Strongly agree	3
Somewhat agree	2
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	3
Neutral	0
Somewhat disagree	0
Strongly disagree	0
e. I am satisfied with the timeframe/duration of the course	**Responses**
Strongly agree	5
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	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
g. I am satisfied with the learning materials	**Responses**
Strongly agree	4
Somewhat agree	1
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	5
Likely	*0*

For **Course 2: Monitoring, reporting, verification: follow up on implementation of actions** there were in total 10 respondents. Mentees were either very aware or fairly aware of all course objectives covered. All results are given in the table below:

Table 7. 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	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	4
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
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	5
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
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	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	4
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
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	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	6
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
e. Key financial indicators	**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	5
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
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	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	6
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

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	5
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
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	5
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
2. TO WHAT EXTEND DO YOU AGREE WITH THE FOLLOWING STATEMENTS?	
a. The course met my expectations/needs	**Responses**
Strongly agree	5
Somewhat agree	3
Neutral	2
Somewhat disagree	0
Strongly disagree	0
b. I gained useful knowledge and information	**Responses**
Strongly agree	6
Somewhat agree	3
Neutral	1
Somewhat disagree	0
Strongly disagree	0
c. The information given was relevant for my work	**Responses**
Strongly agree	5
Somewhat agree	5
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	7
Neutral	2
Somewhat disagree	0
Strongly disagree	0
e. I am satisfied with the timeframe/duration of the course	**Responses**
Strongly agree	5
Somewhat agree	3
Neutral	2
Somewhat disagree	0
Strongly disagree	0
f. I am satisfied with the guidance and support provided by the mentor	**Responses**
Strongly agree	9

Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
g. I am satisfied with the learning materials	**Responses**
Strongly agree	3
Somewhat agree	5
Neutral	2
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	7
Likely	3
Not likely	0

For **Course 3: Indicators and Strategies on Adaptation to Climate Change** there were a total of 18 respondents.

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

Table 8. 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	10
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	8
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	8
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	10
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	7
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	10
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
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	6
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	11
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
2. TO WHAT EXTEND DO YOU AGREE WITH THE FOLLOWING STATEMENTS?	
a. The course met my expectations/needs	**Responses**
Strongly agree	12
Somewhat agree	6
Neutral	0
Somewhat disagree	0
Strongly disagree	0
b. I gained useful knowledge and information	**Responses**
Strongly agree	14
Somewhat agree	4
Neutral	0
Somewhat disagree	0
Strongly disagree	0
c. The information given was relevant for my work	**Responses**
Strongly agree	12
Somewhat agree	6
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	13
Somewhat agree	5
Neutral	0
Somewhat disagree	0
Strongly disagree	0
e. I am satisfied with the timeframe/duration of the course	**Responses**
Strongly agree	14
Somewhat agree	4
Neutral	0
Somewhat disagree	0
Strongly disagree	0
f. I am satisfied with the guidance and support provided by the mentor	**Responses**
Strongly agree	15
Somewhat agree	3
Neutral	0
Somewhat disagree	0
Strongly disagree	0
g. I am satisfied with the learning materials	**Responses**
Strongly agree	16
Somewhat agree	2
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	14
Likely	4
Not likely	0

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

Table 9. 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	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	1
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	1
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	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	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	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	1
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	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
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	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	1
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?	
Question: a. The course met my expectations/needs	**Responses**
Strongly agree	3
Somewhat agree	1
Neutral	1
Somewhat disagree	0
Strongly disagree	0
Question: b. I gained useful knowledge and information	**Responses**
Strongly agree	3
Somewhat agree	1
Neutral	1
Somewhat disagree	0
Strongly disagree	0
Question: c. The information given was relevant for my work	**Responses**
Strongly agree	2
Somewhat agree	3

Neutral	0
Somewhat disagree	0
Strongly disagree	0
Question: d. I will be able to apply the knowledge and information gained in the course	**Responses**
Strongly agree	1
Somewhat agree	3
Neutral	0
Somewhat disagree	1
Strongly disagree	0
Question: e. I am satisfied with the timeframe/duration of the course	**Responses**
Strongly agree	2
Somewhat agree	2
Neutral	1
Somewhat disagree	0
Strongly disagree	0
Question: f. I am satisfied with the guidance and support provided by the mentor	**Responses**
Strongly agree	4
Somewhat agree	1
Neutral	0
Somewhat disagree	0
Strongly disagree	0
Question: g. I am satisfied with the learning materials	**Responses**
Strongly agree	3
Somewhat agree	2
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	1
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 and aware of the topics covered in the course. As a result of completing the course, mentees gained a significant amount of knowledge about the topics covered in the course, as the satisfaction survey showed that they were very aware of and aware of those topics after completion of the courses.

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. As a result, all mentees were either aware or very aware of all topics taught to them after they had completed the course.

1.4   Action plan

The Action plan aims to understand 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 3

Similar to previous learning cycles (LC1 and LC2), the ENERGee Watch programme faced challenges related to mentees' commitment or engagement. As a result of conflicting work schedules, many mentees were not able to attend the courses in person in Brussels.

1.6 Key learnings from the course

During the ENERGee Watch P2P programme, the mentees had the opportunity to apply the material they learned to everyday tasks and activities in a variety of ways, enabling better ongoing or future project. Learnings included:

- Updating **data collection and management** methods
    - ✓ Better quality and more reliable data
    - ✓ Better energy and climate data and data management for SECAPs
- New **data evaluation** methods
    - ✓ Knowledge on how to get a more accurate results
    - ✓ Understanding how to calculate energy consumption, energy savings and other data analysis
    - ✓ Preparing more science-based reporting
- Knowing where to look for information
- How to file missing data
- Ensuring **better quality, monitoring, verification/evaluation, and reporting of SECAPs**, expanding support periods for municipalities and attracting more investors
    - ✓ Improving quality of SECAPS to monitor municipal activities
    - ✓ SEAP will be expanded to SECAP, therefore the monitoring framework for climate impacts will be essential to lay the basis for proper monitoring of climate actions
    - ✓ Integration of the monitoring methods into the implementation plan
- Instructions and **guidelines for the preparation of municipal SECAPs**
- **Involvement of stakeholders** in SECAP and project development
    - ✓ Identification and consolidation of SECAP stakeholders' network
    - ✓ Raising awareness and engagement among stakeholders, participants and citizens
- **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
- Application and update of **new tools for data visualisation** to enhance valorisation outputs
- **Review of reports template** which include the identification of end-users, identification of report objectives, review of structures.
- Creation of different report templates depending on end-user
- **Design, content, and data communication, and visualisation** of adaptation will improve dissemination and information activities
- **Presentation of spatial data** to influence behavioural change
- Improve the organisation's **indicators and strategies on adaptation** to climate change
- Better **framing of activities** to better serve the needs of the territory
- Help to **structure the services** provided for territories
- **Development of internal administrative structures** for successful implementation and monitoring of sustainable energy action plans (roles, support, prioritization, budgeting)
- **Knowledge to identify problems** faced by end users and advise them in prioritizing projects