



DELIVERABLE 1.1.2.

Analysis of needs in new regions and target groups **Version 1**
08/2020





D.T1.1.2 – Analysis and needs in a new region and target groups

A.T1.1 – Stakeholder analysis and mapping

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1. Introduction

The deliverable D.T1.1.2 reports the collection of local\national wishes and needs from stakeholders about tools, strategies and roadmaps that will be adjusted and merged in TARGET-CE in order to better tailor them to the necessities.

2. Methods and implementation

Starting from the activities implemented and reported in D.T1.1.1, project partners began to engage stakeholders in project topics and tasks. A questionnaire was prepared in order to collect their needs and knowledge about existent solutions to be capitalized. Project partners realized also a questionnaire to exchange knowledge about the different solutions coming from past EU funded projects, and analysing possible critical points in transferability (preliminary work to proceed to A.T.1.2). This serves also to start the feasibility analysis for the Pilot Actions implementation (WP4).

So, two different questionnaires were realized as google forms, one addressed to partners and one addressed to the project stakeholders. The questionnaires are available on the project repository at <https://drive.google.com/drive/folders/1qV3SCJjix206gzihrqoVUt1Sr5mCLnht> and attached to this Deliverable in PDF form.

3. Questionnaire to stakeholders

The survey directly addressed to project stakeholders (D.T1.1.1) was disseminated by project partners to their contacts and by means of the first newsletter issue.

The message to engage the stakeholders has been:

“Nowadays the major challenge for public administrations is to reduce energy consumption in existing public buildings without significant construction works. Energy planners and policy makers need to possess useful and reliable solutions for proper energy management to increase energy efficiency (EE) and renewable energy sources (RES). To address this, the TARGET-CE project will capitalize and exploit EE solutions throughout transnational cooperation in Central European countries. The aim of this QUESTIONNAIRE is to collect information, needs and wishes from local and national stakeholders for better adjusting and tailoring past outcomes in the EE sector and capitalize these solutions in new pilot areas.”

Questions were the following:

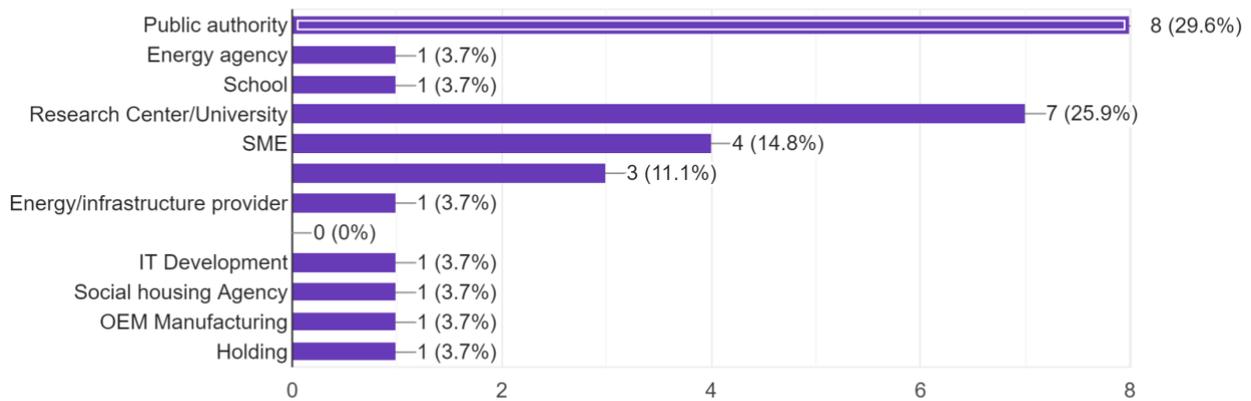
- Name of the organisation you represent
- Which type of organisation do you represent?
- If your organisation is a public authority, please specify at what level does it operate
- Which country are you from?
- Which EU-funded project do you know among the following or in which project were you involved?
- Has your organisation been previously involved in energy efficiency projects or activities
- Considering energy efficiency in public buildings, which are your main needs and wishes? What would you realize / implement in the shortest period?
- In relation to your main needs and wishes, can you find some useful actions in the following existing solutions? Which solutions are you mainly interested in?



A total of 27 stakeholders from Austria, Italy, Croatia, Czech Republic, Poland and one from China replied to the questionnaire.

1. Which type of organisation do you represent?

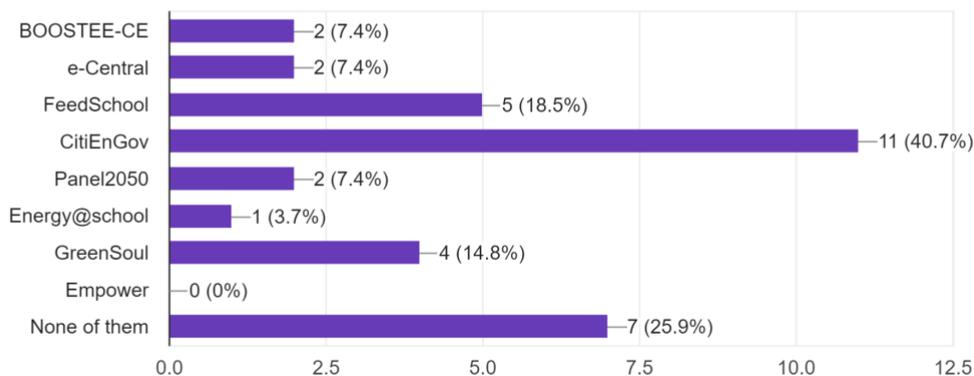
27 responses



From the survey it was discovered that most of participating stakeholders have been already involved in EU-funded projects that TARGET-CE proposes to capitalize, and mainly CitiEnGov (11), FeedSchool (5), GreenSoul (4) and others as reported in the chart below:

4. Which EU-funded project do you know among the following or in which project were you involved?

27 responses



Among the organisations, one has been formerly involved in 4 different EU funded projects (BOOSTEE-CE, e-Central, FeedSchool, Energy@school). 7 stakeholders reported to have not been involved in any of them.

Regarding stakeholders' needs and wishes:

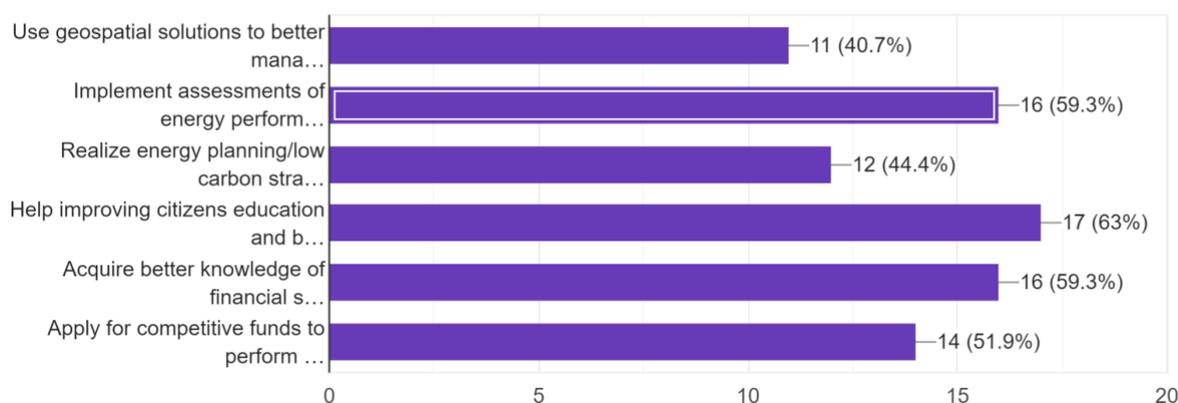
- 16 answered that among their main needs/wishes is that to implement assessments of energy performances (including audit)
- 17 declared to want to help improving citizens education and behaviour in energy saving
- 16 would like to acquire better knowledge of financial sources in the field of energy efficiency



- 14 would like to apply for competitive funds to perform energy efficiency actions
- 11 affirmed their interest for the use of geospatial solutions to better manage public buildings (e.g. visualise 3D buildings for querying and displaying energy-related information or perform aggregation analyses)
- 12 affirmed the need to realize energy planning/low carbon strategies (including SECAPs).

6. Considering energy efficiency in public buildings, which are your main needs and wishes? What would you realize / implement in the shortest period?

27 responses



In relation to the main needs and wishes, stakeholders declared to find some useful actions in the following existing solutions:

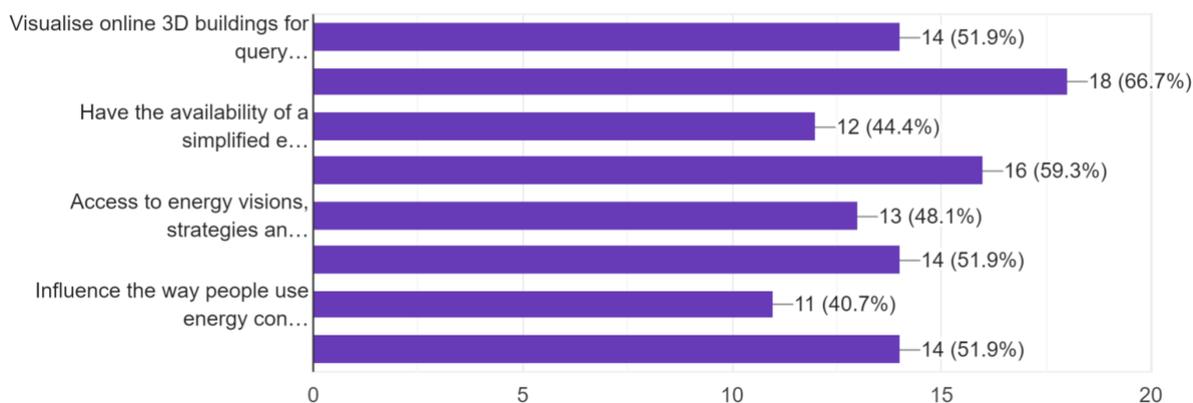
- Visualise online 3D buildings for querying and displaying energy-related information or perform aggregation analyses (see more in BOOSTEE-CE project platform: <https://oneplace.fbk.eu/>),
- Identify investment opportunities, by assessing current building stock and potentials for making cost-effective nZEB investments (see more in e-Central: <http://nzeb.thorium.software/>),
- Have the availability of a simplified energy audit and a simplified carbon footprint evaluation for a school building, in order to be able to make evaluations on the savings achievable through energy improvement actions (see more in the FEED-SCHOOL tool: www.feedschools.enea.it),
- Implement energy plans as well as Sustainable Energy (and Climate) Action Plans (SEAPs/SECAPs) in order to have the possibility to organize geographical data about buildings with their properties and attributes (see more in the CitiEnGov toolkit: <http://toolkit.citiengov.eu/>),
- Access to energy visions, strategies and action plans for the transition towards low carbon communities (see more in Panel2050: <https://ceesen.org/panel2050>; https://ceesen.org/?dml_download=regional-visions-for-sustainable-energy-future),
- A gamification approach for schools to educate about energy saving: train students to become Junior Energy Guardians and support the reduction of energy consumption in everyday life (see more about Energy@school: <https://www.interreg-central.eu/Content.Node/WP4-description.html>),
- Influence the way people use energy consuming shared devices (lights, printers) and personal devices (personal pluggable appliances) (see more at Green Soul: <http://www.greensoul-h2020.eu/public-deliverables/list-of-deliverables-for-greensoul-project>),



- Disseminate knowledge about existing innovative financial solutions to improve energy efficiency (see more in Empower: <http://agenda21.lorient.fr/dokuwiki/doku.php/good-practice-register>; see also BOOSTEE-CE Financial Energy Module at <https://oneplace.fbk.eu/en/financing-energy-efficiency/financing-energy-efficiency/>)

7. In relation to your main needs and wishes, can you find some useful actions in the following existing solutions? Which solutions you are mainly interested in?

27 responses



4. Questionnaire to Project Partners

The second questionnaire aimed to collect information, needs and wishes from local and national stakeholders for better adjusting and tailoring past outcomes in the EE sector and capitalize these solutions in new pilot areas.

A first part of the questionnaire was created with the aim to increase the knowledge of stakeholders and the answers were given from the point of view of partners.

Name of the organisation you represent

- Which type of organisation your stakeholder represents?
- If it is a public authority, please specify at what level does it operate
- In which country are you working?
- Which project was your stakeholder involved in?
- Please write the name of your Pilot Action (eg. PA in Bassa Romagna including 2 schools)
- Has your stakeholder been previously involved in energy efficiency projects or activities?
- Considering energy efficiency in public buildings, which are your stakeholder's main needs and wishes? What would it realize / implement in the shortest period?
- In relation to your main needs and wishes, can you find some useful actions in the following existing solutions? Which solutions you are mainly interested in?
- With regards to the identified TOOLS (see also summary tools table: https://docs.google.com/spreadsheets/d/13ZdUNH4kKZpHJxUJj5MWo-UV5dkarpvg2UdWGVEx_O0/edit#gid=0), mark tools to which the stakeholder is interested in.



The second part of the questionnaire was aimed at identifying particular needs and wishes in relation to the transferability of the tools, critical points and needs for tailoring them:

- Particular needs for adjusting/transferring (e.g. language, software compatibility, etc.) – please refer to the tools summary, adjust and integrate
- Particular wishes in tailoring identified tools/strategies
- Availability of own/further budget to adopt/implement tools
- Any key critical point that can represent an obstacle for the transferability?

This survey got 7 responses from the partner organisations responsible to implement the TARGET-CE Pilot Actions:

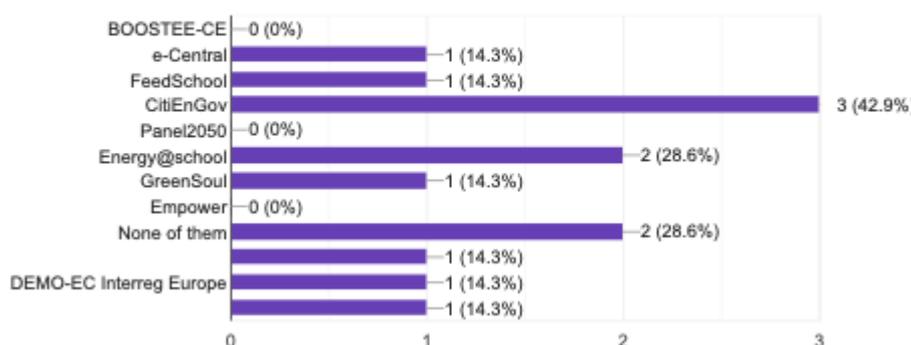
- W.E.I.Z. (AT)
- KSSENA (SI)
- City of Split (HR)
- Sipro Development Agency - Ferrara (IT)
- EGTC NOVUM (PL) / interview with Podgórzyń
- Mazovia Energy Agency (PL)
- Unione dei Comuni della Bassa Romagna (IT)

They reported about the projects where they or their stakeholders have been previously involved:

- W.E.I.Z (AT): GreenSoul and CitiEnGov
- KSSENA (SI): eCentral and Energy@school
- City of Split (HR): FeedSchool and CitiEnGov
- Sipro Development Agency, Ferrara (IT): CitiEnGov
- EGTC NOVUM (PL), interviewing Podgórzyń: not involved in any EE European-funded project before
- Mazovia Energy Agency (PL), interviewing the City of Milanówek: Interreg Europe “DEMO-EC “
- Unione dei Comuni della Bassa Romagna (IT): Energy@school

4. Which project was your stakeholder involved in?

7 responses



To the question “Has your stakeholder been previously involved in energy efficiency projects or activities?” only one answered “no”.

To the question “Considering energy efficiency in public buildings, which are your stakeholder's main needs and wishes? What would it realize / implement in the shortest period?”, PPs gave the following answers:

- Use geospatial solutions to better manage public buildings (e.g. visualise 3D buildings for querying and displaying energy-related information or perform aggregation analyses): (5)



- Implement assessments of energy performances (including audit): (2)
- Realize energy planning/low carbon strategies (including SECAPs): (2)
- Help improving citizens education and behaviour in energy saving: (5)
- Acquire better knowledge of financial sources in the field of energy efficiency: (4)
- Apply for competitive funds to perform energy efficiency actions: (3)

In relation to that, they would use the following solutions:

- Visualise online 3D buildings for querying and displaying energy-related information or perform aggregation analyses (see more in BOOSTEE-CE project platform: <https://oneplace.fbk.eu/>): (6)
- Identify investment opportunities, by assessing current building stock and potentials for making cost-effective nZEB investments (see more in e-Central <http://nzeb.thorium.software/>): (3)
- Have the availability of a simplified energy audit and a simplified carbon footprint evaluation for a school building, in order to be able to make evaluations on the savings achievable through energy improvement actions (see more in the FEED-SCHOOL tool: www.feedschools.enea.it): (2)
- Implement energy plans as well as Sustainable Energy (and Climate) Action Plans (SEAPs/SECAPs) in order to have the possibility to organize geographical data about buildings with their properties and attributes (see more in the CitiEnGov toolkit: <http://toolkit.citiengov.eu/>): (3)
- Access to energy visions, strategies and action plans for the transition towards low carbon communities (see more in Panel2050: <https://ceesen.org/panel2050> ; https://ceesen.org/?dml_download=regional-visions-for-sustainable-energy-future): (3)
- A gamification approach for schools to educate about energy saving: train students to become Junior Energy Guardians and support the reduction of energy consumption in everyday life (see more about Energy@school: <https://www.interreg-central.eu/Content.Node/WP4-description.html>): (4)
- Influence the way people use energy consuming shared devices (lights, printers) and personal devices (personal pluggable appliances) (see more at Green Soul: <http://www.greensoul-h2020.eu/public-deliverables/list-of-deliverables-for-greensoul-project>): (5)
- Disseminate knowledge about existing innovative financial solutions to improve energy efficiency (see more in Empower: <http://agenda21.lorient.fr/dokuwiki/doku.php/good-practice-register>; see also BOOSTEE-CE Financial Energy Module at <https://oneplace.fbk.eu/en/financing-energy-efficiency/financing-energy-efficiency/>): (2)

It derives that, with regards to the identified TOOLS (see also summary tools table: https://docs.google.com/spreadsheets/d/13ZdUNH4kKZpHJxUj5MWo-UV5dkarpvg2UdWGVEx_00/edit#gid=0), their stakeholders are mainly interested in:

- BOOSTEE-CE OnePlace / 3DEMS tool (6)
- Energy@school App (4)
- Living EPC Tool (1)
- ERE (Nearly Zero-Energy Building) APP (2)
- CitiEnGov Toolkit (3)
- Ferrara Energy Dashboard (1)
- The GreenSoul S-E Module or Questionnaire (4)
- Good Practice Register (3)
- Roadmapping / Stakeholder Engagement Panel 2050 (1)

As far as Pilot Actions are concerned, the partners declare that their Pilot Actions will be the following:

- W.E.I.Z. (AT): including 3 office buildings
- KSSENA (SI): PA in Municipality Nazarje (1 school and art gallery)



- City of Split (HR): Energy audits for 8 Elementary schools in Split
- Sipro Development Agency - Ferrara (IT): Energy efficiency of public buildings in Ferrara
- EGTC NOVUM / interview with Podgórzyn (PL): Polish-Czech cross-border PA (public school in Chrastava, CZ and Podgórzyn, PL)
- Mazovia Energy Agency (PL): Energy monitoring in 5 public buildings in City of Milanówek
- Unione dei Comuni della Bassa Romagna (IT): PA in Bassa Romagna including 6 to 8 schools

With regards to particular needs for adjusting/transferring they reported for the majority, the necessity to dispose of materials in national language, especially the ones addressed to the schools, of clear instructions on which data should be provided in order to start working with tools, and the verification of software compatibility.

Finally, as stressed by EGTC NOVUM partner, critical points in the implementation of the PA could be the contingencies due to the corona pandemic, as in the case of the cross-border Pilot Action, the closure of the border, but also for the actions in the schools, another lockdown, etc.

5. Conclusions

This activity pointed out that stakeholders in Central Europe has a good experience in projects aimed at Energy Efficiency, but that the interest in increasing EE in public buildings is still high. Among main needs and wishes are (in the order) that of implementing assessments of energy performances (including audit), helping improving citizens education and behaviour in energy saving, acquiring better knowledge of financial sources in the field of energy efficiency, using geospatial solutions to better manage public buildings (e.g. visualise 3D buildings for querying and displaying energy-related information or perform aggregation analyses), realizing energy planning/low carbon strategies (including SECAPs), and finally applying for competitive funds to perform energy efficiency actions.

To these needs the TARGET-CE project can answer by making available, deploying and developing existing tools from past EU-funded projects.

- BOOSTEE-CE OnePlace / 3DEMS tool
- Energy@school App
- Living EPC Tool
- ERE (Nearly Zero-Energy Building) APP
- CitiEnGov Toolkit
- Ferrara Energy Dashboard
- The GreenSoul S-E Module or Questionnaire
- Good Practice Register
- Roadmappng / Stakeholder Engagement Panel 2050

Needs for tailoring, adapting them have been analysed with the help of the stakeholders and mainly are related to the necessity of disposing materials in national language, especially the ones addressed to the schools, the need to have clear instructions on which data should be provided in order to start working with tools, and the verification of software compatibility.