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## **KPI and impact assessment**

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## **Glossary of terms and abbreviations**

**Action** – Term connected to the platform EngageSuite in which each engagement project is named an Action. The term is used in ECO2 for a learning Action that a user can do to get the knowhow needed for acting towards more energy- and climate-conscious behaviour.

**ACT4ECO platform** – The online e-learning platform developed within the ECO2 project. The platform provides knowledge for households on energy efficiency measures applicable at home. Available at: <a href="https://act4eco.eu/">https://act4eco.eu/</a>.

**DoW** – "Desription of work" is the official document where the tasks foreseen within the ECO2 project along with its objectives, etc. are presented.

**ECO2** – Energy Conscious Consumers.

**KPI** – Key Performance Indicator. A mainly quantitative indicator that reflects the performance of an activity vis-à-vis targets and intended results. In ECO2 these are at the endpoint about energy conservation and climate gas emission reduction, but there are also KPIs about the number of users, which more specifically reflect what the project itself can perform on.

User – In the texts below we refer to a user as an individual who has visited the ACT4ECO platform.

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## 1. Introduction

<u>Energy Conscious Consumers (ECO2)</u> is a three-year H2020 project, which has been implemented by a total of nine partner organisations from nine different EU countries, namely Belgium, Bulgaria, Denmark, Finland, Greece, Ireland, Italy, Lithuania and Portugal. Its main objective is to encourage consumers throughout Europe to become conscious about their energy consumption and improve the energy efficiency of their homes and households. Since consumers play a key role in the transition towards sustainable energy, ECO2 both engages and empowers them by providing knowledge on how to consume energy more consciously in their everyday lives. To achieve that, the ECO2 consortium developed a large-scale, multi-language and action-oriented online learning platform (<u>ACT4ECO.eu</u>), which provides consumers with information and advice on how to reduce their energy consumption and CO<sub>2</sub>-footprint by adopting various solutions related to home improvements and implementation of energy-saving good practices.

This report aims to provide an assessment on the progress that has been achieved by ECO2 partners in meeting the project objectives, attaining a set of Key Performance Indicators and expected impacts. The report further delivers recommendations which could help similar initiatives to focus on enhancing their impact.

The report consists of seven parts. It begins with an introduction to the ECO2 project and to the ACT4ECO platform, with particular reference to its development, testing and piloting phases, and upscaling and evaluation processes. Secondly, the methodology to develop the ACT4ECO platform is described along with the KPIs and the expected impacts of the ECO2 project. ECO2 KPIs and impacts achieved are then analysed in detail in Chapters 3 and 4. Before reaching a conclusion, Chapter 5 is dedicated to the exploitation of ACT4ECO platform after the end of the project. Annexes are also part of the report, presenting some additional and raw data related to the analysis.

## The ACT4ECO Platform

The main principle followed when developing the ACT4ECO platform has been to lead users through the **"ladder of change"**, which consists of the following three stages:

- Increasing awareness and motivation: The ACT4ECO platform helps energy consumers throughout Europe to become conscious about their energy consumption. It stimulates users' curiosity on different aspects related to energy efficiency through providing knowledge in an intriquing, accessible and attractive manner.
- Stimulating learning and exploration: For half a century, consumers have been persuaded to consume less energy because they play a pivotal role in the transition to sustainable energy. The measures available to consumers to reduce their energy consumption have multiplied in the last decades. Simultaneously, the devices we use in our daily lives have become more energy efficient, but their number is increasing inside our homes. The imperative thus becomes learning how to consume energy wisely and preferably from sustainable energy sources. This is what the ACT4ECO platform is aimed at, namely to provide consumers with information on easy-to-apply tips on saving energy at home.
- Inspiring action: By raising awareness about energy efficiency and improving users' knowledge about concrete steps they can take to increase the energy efficiency of their

homes, the platform aims to inspire action and achieve a real impact by reducing users'  $\rm CO_{2^{-}}$  footprint.

An important principle followed throughout the process, has been *ensuring the trustworthiness of the information* presented on the platform. To do that, the ECO2 consortium partners validated its content with energy experts and tested it with external users before launching the platform publicly.

The ACT4ECO platform delivers "Actions" on the following five themes:

- home improvements in terms of energy efficiency;
- energy smart equipment;
- managing energy consumption;
- sustaining efficient energy use (rebound effect);
- > and producing own energy at home.

These themes contain altogether 23 actions as presented in the table below.

Themes	Actions		
Produce your own energy	Onsite energy generation		
	Solar photovoltaic systems		
	Solar water heating systems		
	Micro combined heat and power systems		
	Energy storage and hybrid renewable energy systems		
	Step-by-step guidelines		
Manage your energy consumption	Understand my energy bill		
	The power of household appliances		
	Rhythms and routines		
	Moving to renewable energies		
Improve your home	Improve the air tightness of your home		
	Improve your home insulation		
	Change or upgrade your windows		
	Improve your heating, ventilation and cooling system		
	National financing programme		
Become a smart consumer	Choosing a new boiler		
	Choosing a new air heating and cooling system		
	Learn to control your hydronic heating system		
	Learn how to use your thermostat		
	What makes an energy consumer "smart"?		
Sustain efficient energy use	Side-effects of energy efficiency		
	Taking a step further on energy efficiency		
	Energy sufficiency to maintain efficient energy use		

Figure 1. ACT4ECO actions

## Development of the platform

The ACT4ECO platform was developed as a joint effort of the whole ECO2 consortium. The content creation was assigned to five of the partners (ARC Fund, DBT, DECO, HEBES, and University of

Helsinki). The 23 actions in all the five themes were first developed in English by the theme leaders and were then translated into the national languages of the 9 EU countries represented in the project. Both English and national languages versions were validated by energy experts to ensure the trustworthiness / reliability of the information presented on the ACT4ECO platform. Three additional languages of countries beyond the consortium (Poland, the Netherlands and Slovakia) were added to the platform. Thus, ACT4ECO is currently available in 12 languages:



ACT4ECO was created using the EngageSuite software, an online engagement tool developed by the project coordinator – the Danish Board of Technology.

## Testing and piloting the platform

To ensure the user-friendliness of the platform and to check how it would be accepted by the target audience, a testing round was conducted in December 2019 with invited users, non-experts in energy. They were invited to navigate through the platform and its content and to evaluate the ACT4ECO actions' format and possible impact on changing consumer behavior. Based on the collected feedback, some improvements were implemented both in terms of the platform's functionalities and its content.

Main lessons learnt during the test phase were the following (see D7.1 Test actions log):

- More than 50% of the testers stated that the layout of the platform was not appealing.
- More than 30% of the testers stated that the navigation of the platform and the actions needed improvement.
- More than 30% of the testers stated that the content of the action "Improve your home" should be made more useful in day-to-day life and easier to go through.
- More than 30% of the testers stated that the content of the action "Become a smart consumer" should be made easier to go through with better examples.

Following the feedback, improvements were made to the design, functionality, and navigation of the platform as well as to the description of the actions to make them more precise and applicable to the users' households.

In the spring of 2020, as the Actions content was developed and implemented on ACT4ECO, a second round of testing (piloting) was conducted with consumers to receive feedback on the specific Actions (see D7.2 Pilot actions evaluation). Each partner produced a summary report with the main

results from the piloting phase which were addressed and further improvements were made on ACT4ECO. The main take-aways from the pilot testing phase were the following:

- The actions need some form of preview, for the users to know what they are getting into.
- Registration and login function could be a barrier for new users.
- Content is not that useful for people with an advanced skillset in the field of energy efficiency metters but it is understandable and applicable for people with little to no knowledge in the area.
- The content needs to be easier to navigate so advanced users can skip the introduction sections.
- The platform should be interactive and user friendly.
- Increased focus on group interactions around the platform could improve the user experience.
- Create questions, quizzes etc. in the content to help improve engagement.

In the end, the overall feedback was that the platform looks appealing and provides knowledge in a way to be easily undertood by ordinary users, non-experts in energy issues. However, logging in to the platform has been an issue for most participants in the ACT4ECO piloting phase and registration process was described as time consuming and frustrating/confusing. To respond to this concern, ECO2 partners agreed to reconsider the sign-up process to ACT4ECO and to give the opportunity to go through the platform's content without registration. Logging in via social media accounts (Facebook, Twitter and Google+) was made possible as well. All that was implemented in order to make the access to the platform as easy as possible. Furthermore, the platforms navigation tools were improved and questions and quizzes were implemented throughout all actions, to increase engagement. These questions were formed in a way that were more encouraging for users to both answer and learn from.

## Upscaling

The active user recruitment in the upscaling phase of ACT4ECO started once the platform was opened to the wider public in the spring of 2020.

The upscaling process was strongly affected by the restrictions introduced with the COVID-19 pandemic. It was no longer possible for citizens to have face-to-face interaction, which was followed by an increase in the general citizen competences in making use of online tools. In short, the ACT4ECO platform became focused on serving mainly single online users and the upscaling thus had to adapt accordingly. This meant that online means to reach users became pivotal for the recruitment.

All partners put efforts towards the platform reaching out to as many users as possible through various promotional activities and events. The following were among the most commonly used promotional approaches:

• Social media publications. ACT4ECO was represented on various social media channels including Facebook, LinkedIn, and Twitter. Some of the partners had established their own groups on Facebook in their national languages and thus managed to build small ACT4ECO

communities and to promote the platform and the concept of saving energy at home. ACT4ECO was also available on Instagram through the ACT4ECO Bulgaria profile set up by the Bulgarian partner in ECO2.

- Publications in local/national/international newspapers, magazines, newsletters. This
  proved to be a successful approach towards attracting people to visit and navigate through
  the platform. ECO2 partners had published articles on the topics of climate change,
  sustainable consumption, resources conservation, etc. and have linked these topics with
  solutions to these issues, which are provided by the ACT4ECO platform, namely, knowledge
  about how to save energy and thus to reduce carbon footprint.
- Direct e-mailing to networks and relevant contacts.
- Online events and campaigns related to European eco-initiatives like the World Ozone Day, Europe Green Week, Sustainable Energy week, etc.
- Participation of ECO2 partners in relevant online webinars.
- Paid advertisements on social media.

The analysis of the results of the upscaling process revealed that social media activities and ads, online events/seminars, along with publications in local and national media brought the most traffic to the platfom.

## Evaluation

Within the project, a survey was launched which aimed to evaluate the efficacy of the platform and gather feedback from ACT4ECO users about the platform (Deliverable 7.3 Full-scale Actions Evaluation Report). An online questionnaire was sent to all registered users of the ACT4ECO Platform. A total of 62 responses were collected, which provided insights into the users' motivation and change regarding energy efficiency after having used the ACT4ECO platform.

## Deviations with impacts on KPI monitoring

The initial idea for tracking the number of users (as presented in the Grant Agreement) was to monitor the number of registrations on the platform. Adding to this it was decided to register the degree of completion of Actions by inserting survey questions along the learning path in the Actions.

A major deviation due to the effect of the COVID-19 pandemic that has had a negative impact on these measuring points and thereby on the project's ability to document the KPIs was a necessary removal of the mandatory sign-up process on the ACT4ECO platform. The necessity came from the fact that mandatory sign-up constituted a hindrance for especially single online users that became prioritised because of COVID-19. After many considerations the consortium decided to abandon the mandatory sign-up and make two options possible – "Begin with login" and "Begin without login". This has had several consequences:

- Without mandatory sign-up it became impossible to track the decisions of each single user. This has impacted the ability to create precise analysis of some of the KPI's.
- The installation of functions for the ECO Groups were postponed until close to the closure of the projects because they had no real meaning during COVID-19 lock-downs. However, the "Begin with login" option was kept as an alternative to not signing up, because this would become a necessary function when ECO2 Groups would become relevant. This has meant

that there is some information on the users' activity, but only for those users that chose to sign in. The question is if these users can be regarded as representative?

- Because of the very reduced ability to capture user-data through signed-in users it was decided to make use of Google Analytics to capture more general data on user activity, based upon IP address. This has to some extend made it possible to compensate for the lack of data on user level.
- A positive effect of installing a "Begin without login" option was a clear increase in the number of users.

# 2. Methodology

This report aims to provide an assessment on the progress that has been achieved by ECO2 partners in meeting the project objectives, attaining a set of Key Performance Indicators (KPIs) and expected impacts. To do this, we first present the main KPIs and the expected impacts, as set in the ECO2 Grant Agreement and then examine to what extent they have been accomplished. Some concluding remarks are presented in the end.

## Key Performance Indicators (KPIs)

KPIs are used to track and evaluate the performance of the ECO2 project vis-à-vis the originally established quantified targets (Figure 2 below). The ECO2 project has established the following **objectives** at its onset:

- Establish a European ECO2 online infrastructure to facilitate transformative group and individual learning.
- Facilitate energy consumers to increase their know-how to a level, where they are comfortable with new actions towards energy efficiency and reducing energy consumption.
- Empower citizens to take energy comsumption routines in their own hands and improve them.
- Make an ECO2 Community to take responsibility for sustaining and expanding the ECO2 Platform and the European reach of consumer energy behaviour change

A number of KPIs were monitored and measured in order to monitor progress towards achieving the objectives of the ECO2 project, respectively the ACT4ECO platform. The KPIs, along with their targets and way of collecting data to verify progress, are summarised and presented in Figure 2 below.

Key Performance Indicator	Target	Means of verification
Countries engaged	11 countries	Google Analytics data was used to track the geographical location of users based on their IP address.
Consumers engaged	11,000 consumers	Counts from Google Analytics data
ECO2 Actions initiated	33,000 actions	Google Analytics data as well as results from online surveys

Consumer decisions	55,000 decisions/change in behaviour	Results from online surveys disseminated among ACT4ECO users and integrated in the ACT4ECO actions.
Sustainable behaviour change		Results from online surveys disseminated among ACT4ECO users and integrated in the ACT4ECO actions.
ECO2 media coverage	10 media cases in local/national media in each of the nine countries on average	ECO2 partners provided information on media articles and sources related to ACT4ECO, additional media sources were also scanned
Networks and scientific contacts	25 presentations or dialogue situations for networks or organisations of relevance	ECO2 partners reported on presentations or dialogue situations (workshops, personal meetings, etc.) that referred to ACT4ECO

#### Figure 2. ECO2 KPIs

Several **sources** were used to collect data to verify the established KPIs and impacts of the ECO2 project:

• Google Analytics data (e.g. number of users; number of actions visited, etc.).

The Google Analytics tool provided the opportunity to measure the platform's performance within the lifetime of the ECO2 project (for the period May 1, 2020 – August 31, 2021, which marks the date when the platform was launched and the last day of the ECO2 project), including number of users (either per location or per language), new vs. returning users, etc.

• ECO2 online survey's responses and questions integrated within the ACT4ECO platform

To collect data about change in behaviour and decisions taken by consumers in terms of increasing energy efficiency and conscious energy use, results of the ACT4ECO online surveys (Deliverable 7.3 Full-scale actions evaluation report, See section Evaluation above and D8.3 Policy co-creation report, presenting results from an ECO2 survey on energy efficiency policies for households) and surveys integrated in the ACT4ECO actions were analysed. The latter refers to the questions which were integrated within the actions of the platform and asked about, among other things, users' motivation for entering the platform, users' intentions to use the knowledge gained on the platform in the future.

Databases

To collect data on the media coverage of the platform and networking, input from the partners was required.

## **Expected impacts**

At the onset of the project, a number of impacts of the ACT4ECO platform were planned to be measured. Partners aimed to transform indications of change into energy or climate relevant

impacts. The indications partly stem from the KPI measurement and partly from surveys among the involved consumers.

Expected impact	Related KPIs	Target
Primary energy savings by the project, per M€ funding	11 Countries engaged, 11000 Consumers engaged, 33000 ECO2 Actions initiated.	On average a 5% energy efficiency increase per engaged consumer, amounting at appr. 30 kg oil equivalent/consumer, 360,000 kg oil equivalent ~ 4.2 GWh ~ 2.1 GWh/MEuro funding.
Number of people changing their behavior and taking informed decisions	11 Countries engaged, 11 000 Consumers engaged, 33 000 ECO2 Actions used, 55 000 decisions	60 000 consumer decisions are made, which is on average 5 decisions of change per consumer
Number of consumers engaged by actions aiming at improving consumer understanding and routing purchase decisions towards higher efficiency products	11 Countries engaged, 11 000 Consumers engaged, 33 000 Actions used	The target is to add at least 2 countries and have 1 000 participants in each country, summing up to 11 000 participants. These will, however, participate in several ECO2 Actions. The target of used ECO2 Actions is 33 000, equaling 1800 ECO2 Groups and around 5000 single users in average making use of 3 ECO2 Actions each
Renewable Energy production and Investments in sustainable energy triggered by the project within its duration	11 Countries engaged, 11 000 Consumers engaged, 6 000 "Making my energy" (later on changed to "Produce your own energy") Actions used.	A target of 2000 kW RES installed, equaling an investment of appr. 2 500 000 €.

#### Figure 3. ECO2 expected impacts

A major deviation from the envisioned targets was that ECO2 Groups became obsolete and thereby cannot be part of the reporting of the KPIs. Further, the count of Actions and decisions made can only be made as estimates because of the absence of trackable individual activity after the abolishment of the mandatory sign-in.

## 3. Analysis of ECO2 KPIs

This section presents the extent to which the targets established in the ECO2 project and presented in the Key Performance Indicators (KPIs) section above have been achieved at the end of the project.

#### KPI: Countries engaged, Target: 11

As an online tool, the ACT4ECO platform provides an opportunity for learning and awareness raising on the topic of energy efficiency accessible for users globally. This has been fully taken advantage of as part of the project. Targeted action by all partners made the platform more visible in search engines. An additional driver for engaging such a high number of countries is that the platform's content has been translated into a total of 12 languages (see section Relevant project activities above). As a result, <u>users from 124 countries worldwide</u> got engaged with the ACT4ECO platform.

The map below shows the geographic spread of the users who visited the platform. The data was collected using Google Analytics on geographic location of IP addresses.



Figure 4. ACT4ECO users per geographic location, Source: Google Analytics

As seen on the diagram below, the nine countries representing the partners in the ECO2 consortium are in top 10 in terms of users, along with the United States. Almost as much as 10 000 users come from these countries, i.e. above 20% of the total number of users come from countries beyond those of the consortium. While in many countries the numbers of users are quite limited, it nevertheless shows the wide-spread interest in the topic of energy efficiency, as well as the kind of learning tool the platform represents. This spill-over effect has been fully taken advantage of as part of the ECO2 project. The platform has provided knowledge and learning opportunities to people from literally every part of the world.

Country	Users	% Users
1. <a>Portugal</a>	3,206	25.61%
2. 🚺 Belgium	2,197	17.55%
3. 🔳 Bulgaria	872	6.96%
4. III Ireland	790	6.31%
5. 💶 Denmark	758	6.05%
6. 📑 United States	740	5.91%
7. 🚺 Italy	601	4.80%
8. 🖶 Finland	582	4.65%
9. 🔄 Greece	465	3.71%
10. 🔜 Lithuania	358	2.86%

Figure 5. Top 10 countries in terms of ACT4ECO users, Source: Google Analytics

The figure above shows the distribution of users per country. Portugal has the highest number of users, with 3206 users altogether, followed by Belgium with 2197 users.

#### KPI: Consumers engaged, Target: 11 000

The ACT4ECO platform reached to **12 478** users within the timeframe of the ECO2 project (1 May 2020, when the platform was officially launched to 31 August 2021 when the ECO2 project ended). A count on October 25, 2021, after the closure of the project showed 12.994 users – and increase of 250 users/month. The graph below shows the daily rate of users entering the platform.

The decision to remove the sign-up process led to using Google Analytics data based on IP addresses as verification criteria for the consumers engaged. Indeed, after removing the mandatory registration in May 2021 and making the platform's content more easily accessible, the rate of entries clearly increased, as seen on the graph.

Providing the platform's content in 12 languages, as well as the efforts of partners to improve the visibility of the platform on search engines have both played an important role in widening the geographical spread of the users entering the platform. The large number of users in the top 10 countries, however, demonstrates that the critical factor in upscaling the platform has been partners' efforts and strategies to promote it in their own countries. This is also evident by the spikes on the graph. Those can all be related to different joint or individual partners' activities for upscaling the platform among different audiences, through different media and means. As shown in Figure 6, some of the activities which took place in the period Sept - Dec 2020 resulted in a great number of users entering the platform. These include:

- "Act 4 the Climate on World Ozone Day", a webinar organised on the occasion of World Ozone Day (16 of September) involving energy experts and a representative from the UN, who spoke about the actions that each energy consumer can do in their everyday life to contribute to the protection of the planet.
- A national-level seminar on the topic "Energy efficiency and zero waste: how to become conscious citizens", organised on 30/09/2020 by Sinergie in collaboration with Cittadinanza Attiva, an association aimed at promoting the engagement of citizens in participatory actions on current topics, ranging from social inclusion to the protection of the environment.

• Articles of the ECO2 Portuguese and Irish partners in the Idealista and The Conversation, some promotional outreach events organised by ECO2 partners, and of course active ACT4ECO presence on social media.

From December 2020 on, a relatively stable rate of attracting new users was achieved, with slight increases due to targeted online events and engagement activities organised by Consortium Partners. For example, in Italy, an activity with High Schools was carried out in April and May 2021, and it succeeded in involving more than 100 students, who got the opportunity to live-test ACT4ECO platform. The increase in late May - August 2021 can be explained mainly with the organisation of nine national-level and two EU-level policy seminars, as well as the organisation of a Design Jam workshop.



Figure 6. ACT4ECO audience overview by days, Source: Google Analytics

#### KPI: ECO2 Actions initiated, Target: 33 000

In order to assess the number of actions, visited on the platform, we used Google Analytics data. Under the "Behaviour" section, information can be found on how often the different pages on the act4eco.eu website have been viewed. Filtering the data to include the word "action" in the page description shows us how many actions have been viewed altogether by platform users. The number is 6865 and can be seen below in the graph, i.e. **the actions on the platform have been viewed 6865 times** after 1 May 2020, when the platform was officially launched, to 31 August 2021, when the ECO2 project finished. Figure 7 below presents a small portion of the views distribution, visualising that the total number covers views of Actions in the different language versions available on ACT4ECO, not only the default English one.

This data was filtered with the following filter expression: action

Page		Page Views
		6,865 % of Total: 15.58% (44,064)
1.	/action_theme/make-your-own-energy/2-sistemas-solares-fotovoltaicos/m2fhR_brW 6Pz/?lang=pt-pt	283 (4.12%)
2.	/action_theme/make-your-own-energy/solar-photovoltaic-systems/m2fhR_brW6Pz/	266 (3.87%)
3.	/action_theme/improve-your-house/improve-the-air-tightness-of-your-home/wiOt5-A gP9sL/	196 (2.86%)
4.	/action_theme/my-bills/understand-my-energy-bills/tnbkFq0nENYA/	181 (2.64%)
5.	/action_theme/no-rebound/1-side-effects-of-energy-efficiency/OwbmYlUGgkCZ/	136 (1.98%)
6.	/action_theme/make-your-own-energy/соларни-фотоволтаични-системи/m2fhR_b rW6Pz/?lang=bg	132 (1.92%)
7.	/action_theme/smart-consumers/choosing-a-new-boiler/SWHt7LKH5lLv/	126 (1.84%)
8.	/action_theme/smart-consumers/1-o-que-faz-um-consumidor-de-energia-inteligent e/m6YgIXCvcsLs/?lang=pt-pt	122 (1.78%)
9.	/action_theme/smart-consumers/what-makes-an-energy-consumer-smart/m6YgIXC vcsLs/	114 (1.66%)
10.	/action_theme/no-rebound/1-efeitos-secundarios-da-eficiencia-energetica/OwbmYlU GgkCZ/?lang=pt-pt	110 (1.60%)
11.	/action_theme/improve-your-house/improve-your-home-insulation/uSlLddkzD465/	104 (1.51%)
12.	/action_theme/my-bills/1-compreender-as-minhas-faturas-de-energia/tnbkFq0nENY A/?lang=pt-pt	99 (1.44%)
13.	/action_theme/improve-your-house/2-tornar-a-sua-casa-mais-confortavel/wiOt5-AgP 9sL/?lang=pt-pt	98 (1.43%)
14.	/action_theme/my-bills/the-power-of-household-appliances/50oKl7IApS80/	98 (1.43%)
15.	/action_theme/make-your-own-energy/onsite-energy-generation/0tqAez5umZ03/	96 (1.40%)
16.	/action_theme/improve-your-house/change-or-upgrade-your-windows/4kOWsAX6Fiy H/	87 (1.27%)
17.	/action_theme/no-rebound/3-energy-sufficiency-to-maintain-efficient-energy-use/nP 3T7pDhRWWE/	86 (1.25%)
18.	/action_theme/make-your-own-energy/step-by-step-guidelines/KykROpRf75DZ/	81 (1.18%)

Figure 7. ACT4ECO page views per action, Source: Google Analytics

Further look into the data of web pages viewed, shows that news articles on the platform also proved to be attractive for ACT4ECO users. These provide valuable information on energy efficiency practices to make homes more sustainable, sustainable energy related events and webinars, transition to renewable energy sources, etc., which is also part of the learning experience in ACT4ECO and thus, should be considered when evaluating the results achieved by the platform. The different articles in the News section on the platform have got almost 6000 views altogether.

• 🕓	Real-time	Primary Dimension: Page Page Title Other -								
· ±	Audience		Plot Rows Secondary dimension * Sort Type: Default *			article 💿 🔍		advanced		
> >=	Acquisition		Page 0	Page Views 💿 🗸	Unique Page Views	Avg. Time on Page	Entrances 0	Bounce Rate	% Exit 0	
- 🗆	Behaviour Overview			<b>5,943</b> % of Total: 13.49% (44,064)	5,153 % of Total: 16.93% (30,431)	00:01:57 Avg for View: 00:02:11 (-10.34%)	<b>3,838</b> % of Total: 19.55% (19,631)	85.80% Avg for View: 65.73% (30.54%)	68.27% Avg for View: 44.55% (53.23%)	
	Behaviour Flow		1. /article/are-you-a-designer-do-you-want-to-have-a-positive-impact	702 (11.81%)	<b>603</b> (11.70%)	00:02:13	<b>571</b> (14.88%)	85.11%	78.63%	
	All Pages		2. /article/strato-ozono-e-cambiamento-climatico/?lang=it	<b>221</b> (3.72%)	<b>190</b> (3.69%)	00:04:37	188 (4.90%)	86.70%	84.16%	
	Content Drilldown		3. /article/ozone-layer-and-climate-change/	<b>187</b> (3.15%)	<b>162</b> (3.14%)	00:05:36	141 (3.67%)	87.94%	83.42%	
	Landing Pages		4. /article/quer-melhorar-o-conforto-da-sua-casa/?lang=pt-pt	<b>162</b> (2.73%)	<b>124</b> (2.41%)	00:02:17	22 (0.57%)	68.18%	38.27%	
	Exit Pages		5. /article/vouchers-para-melhorar-a-eficiencia-energetica-dos-edific	<b>132</b> (2.22%)	116 (2.25%)	00:02:03	40 (1.04%)	72.50%	42.42%	
s.	Attribution BETA		/article/vous-allez-bientot-devenir-proprietaire-decouvrez-ce-que-v 6. ous-pouvez-apprendre-sur-les-mesures-defficacite-energetique-da @ ns-cet-appartement/?lang=fr	<b>97</b> (1.63%)	<b>62</b> (1.20%)	00:00:12	31 (0.81%)	38.71%	38.14%	
~	(									

Figure 8. ACT4ECO articles views, Source: Google Analytics

The high interest in the news articles on the ACT4ECO web site, which present valuable information about the platform, the project events, as well as about different aspects of energy efficiency, is indicative about the attractiveness of the content for the visitors. Google Analytics shows that almost 65% of those who viewed the news articles entered the act4eco.eu web site through a direct link to the specific article. While 68% of those leave the web site after reading the article (as shown by the Exit% on the graph), more that 30% of all stay on the act4eco.eu web page and view more content. This observation leads to the conclusion that future initiatives could benefit from putting more focus on content presented through short articles, which attract users to the website and refer to other content on the platform. Likewise, it is reasonable to conclude that articles on ACT4ECO in their own right is a means to reach consumers with information about energy conscious consumption, and then the Actions serve as a means to receive deeper knowledge.

## KPI: Consumer decisions, Target: 55 000

In order to gather feedback from platform users on how ACT4ECO affected their decisions related to the energy efficiency of their homes, short online surveys were used in the course of the project. These are:

- questions integrated in some of the platform's Actions, related to users' motivation to enter the platform, as well as decisions they have taken in regard to the energy efficiency of their homes based on the knowledge obtained on the platform;
- an online survey to evaluate the platform by collecting users' feedback (Deliverable 7.3 Fullscale Actions Evaluation Report);
- an online survey on policy measures that could support consumers to increase the energy efficiency of their homes (D8.3 Policy co-creation report).

Results from the short surveys integrated in the actions show that more than 2/3 of the 667 responses indicate willingness to take action towards improving the energy efficiency of the homes after going through the content of the ACT4ECO action. The reported measures that users are willing to take vary from inspecting the energy appliances at their homes and checking for air leaks, to changing windows, putting insulation or changing their energy consumption habits towards more sustainable ones. The intention of the rest of the respondents was to learn more about energy efficiency, rather than to take any concrete action in this regard in the near future. Check out Appendix II of the current report for more detailed information on the responses to the actions-integrated surveys.

These results have also been confirmed by the evaluation survey, which has been implemented by ECO2 partners at the end of the project (Deliverable 7.3 Full-scale actions evaluation report – See Section Relevant project activities). The evaluation survey shows that 76.3% of the respondents have been inspired by ACT4ECO to take action and make changes in their everyday lives and homes in terms of reducing energy consumption and improving energy efficiency. With 62 respondents to the survey the results cannot be considered valid to the population of over 12 000 users of the platform. Yet, they give a hint about the utility of the platform for energy consumers. Thus, the conclusion of the survey is that "the platform was effective in sending the message of the importance and need for saving energy, and that it was useful for the majority of users involved".

Below are the results of the question "What changes made by you were inspired by ACT4ECO". The area where the platform was most effective to inspire change in behavior is the energy consumption

with 78% of the respondents reporting making changes to the way they consume energy. The second most frequent answer to the question is "I started to monitor my energy". These are also the actions which require least investment by the users, thus, it is at no surprise they are mostly highly ranked. Concrete examples of changes shared by the respondents include using washing machine and dishwasher only when at full capacity, turning off the lights when not in the room, taking advantage of natural light, turning off appliances when not used, put insulation to the home, starting using LED lights, checking for air leaks, using smart meters to monitor energy consumption.

#### **P8 - W**HAT CHANGES MADE BY YOU WERE INSPIRED BY ACT4ECO.



[41 answers, 21 ignored]

Figure 9. What changes made by the ACT4ECO users were inspired by the platfom, Source: ECO2 Deliverable 7.3 Full-Scale Actions Evaluation Report

The responses to the questions in the "Produce your own energy action" theme make an exception. They differ from the responses in the other themes as majority of the users visited the actions with the desire to learn about the existing technologies rather than planning to make any investments. This could be explained with higher costs associated with producing own energy at home, which often is the most serious barrier to households' energy self-production.

To some extent, these results are supported by the responses to another survey that was disseminated among ACT4ECO users in the spring of 2021. It referred to the policy measures that could support consumers in their journey towards energy efficiency. A large number of the 48 users participating in the survey reported that they cannot afford many of the energy efficiency changes they would like to make in their homes. Among them are renewable energy installations (solar photovoltaics, micro-heat and power systems), improved windows or insulation, improved heating/cooling systems. Apparently, while the majority of consumers want to save energy at their homes, many lack the financial resources to make such an investment.

While the numbers above do not allow concluding that the KPI on consumer decisions has been achieved, we have a clear indication that the platform has positively affected users' motivation and willingness to make changes in their homes and everyday life which reduce the consumption of

energy and improve their energy efficiency. The platform users' responses on the surveys also conveyed the message that many consumers are hindered to implement some of the measures described on the platform due to financial reasons. Nevertheless, even in these cases, users stayed curious regarding new ways to improve their energy at home and used the platform to inform themselves on the topic.

#### **KPI: Sustainable behavior change**

In order to be able to understand to what extent the changes in behaviour inspired by the ACT4ECO platform can be considered sustainable, users have been asked about their plans to keep these changes in the future as well. While sustainability can hardly be measured in the course of the project due to the nature of the indicator, the responses to this question can give us a hint about it. All 41 respondents confirmed that they are planning to sustain the new behaviours in the future. Respondents were also asked how motivated they are to maintain the changes or new behaviours in the future, with the following distribution of answers: 51% stated that they are very motivated, 46% are somewhat motivated and 3% are slightly motivated.



[41 answers, 21 ignored]



*Figure 10. How motivated are ACT4ECO users to maintain the reported changes or new behaviours in the future, Source: ECO2 Deliverable 7.3 Full-Scale Actions Evaluation Report* 

While nearly all respondents reported that they feel motivated to keep following ACT4ECO advice in the future and sustain the changes inspired by the platform, a quarter of the respondents noted that getting financial support to maintain/implement these changes would be decisive in their ability to pursue them in the future. Almost half of the respondents shared that further awareness and information campaigns will be needed to keep them sufficiently motivated to sustain these changes in the future.

## P12 - WHAT WILL HELP YOU MAINTAIN THESE CHANGES OR NEW BEHAVIOURS IN THE FUTURE?

#### [26 answers, 36 ignored]

Aspects that help maintaining changes				
Public Funds	12			
Awareness campaigns	10			
Information Campaigns	9			
Community Inspiration	3			
Research projects	1			
Discounts / Advantages	1			
Work with Companies	1			
Total	37			

*Figure 11.* What will help ACT4ECO users maintain the reported changes or new behaviours in the future, Source: ECO2 Deliverable 7.3 Full-Scale Actions Evaluation Report

The evaluation survey's question about recommending the platform also provides an indication about the sustainability of the impact of the platform. Nearly all respondents to the question (93.48%) recommended the ACT4ECO platform to friends (69.57%) and family (58.70%), which is a very positive result and reinforces the interest in this type of platforms and the value of ACT4ECO for users.

#### **KPI: Media coverage**

During the ACT4ECO upscaling phase, the ECO2 partners have been in direct contact with energy/environment media, as well as green businesses, lifestyle and consumer magazines and newspapers in order to increase the media uptake to extend the knowledge of the public on ECO2 and ACT4ECO. **More than 130 media coverage activities** referring to ACT4ECO were reported by the ECO2 consortium, among which are articles in journals and newspapers, press releases, radio broadcasts, and newsletters. These were either entirely focused on ACT4ECO or on emerging topics in the energy and environment field (e.g. climate change, Earth-Overshoot Day, sustainable consumption) and referring to ACT4ECO as a tool for facilitating action.

According to Google Analytics data, media activities had been an important step in spreading awareness of ACT4ECO, generating high traffic on the platform and causing peaks on the days around certain publications. Among the bigger media channels on which ACT4ECO has been promoted are the World Economic Forum website, Idealista and The Conversation, along with major media sources at national and local level. To see the full list of the media activities by partners, go to the Appendix III of the current report.

#### **KPI: Networks and scientific contacts**

The ECO project along with the ACT4ECO platform were discussed at **more than 50 meetings** of the project's partners with relevant networks of stakeholders, including both bilateral and multilateral online and face-to-face meetings. These were networking events, dialogues with municipalities

representatives and consumer organisations, participation in relevant seminars/webinars. As a result, ACT4ECO got promoted through the networks of the stakeholders reached and collaborations with new actors were developed that improve the visibility, as well as the prospects for beyond-project sustainability of the platform (See section ACT4ECO beyond Eco2). A full list of the dialogue activities is available in the Appendix III of the current report.

## 4. Analysis of impacts

## Impacts as per the DoW

It has not been possible to calculate in a meaningful way, and with the available information, energy savings as a consequence of the existence of the ACT4ECO platform

This relates to several facts:

- 1) The information on user level has been highly reduced by the lack of trackability of the user travel due to non-mandatory sign-in.
- 2) User behaviour changes, especially when it comes to those that demand investments, do not come immediately. They can often be several years under way before the changes, such as changing boiler, insulate the house, or establish a PV energy production, are put into effect.
- 3) The discussions on the KPIs above rest to a large extent on Google Analytics data. Such data provide an indication of the activity. But it is difficult to assess the validity of such data, since Goggle Analytics makes use of cookies and therefore the validity probably depends upon the cookie settings in the browsers of the users. It is probable that these data are underestimated, since browsers with high security settings will reject the cookies from Google.
- 4) Even with more stable data about the activity of the users on ACT4ECO it can only be a very uncertain guess to which extent each activity ends up as saved kW or kg CO<sub>2</sub>e. As the project has learnt from the user surveys this depends very much on the situation and economy of each single user.

However, from the data collected it is possible to state some points about the impact, though without amended calculations.

## Number of users changing their behaviour and taking informed decisions

In general, evidence from completed interventions should be interpreted bearing in mind the specific context in which the various actions were carried out. However, some general relevant results could be pointed out.

**Based on current conclusions:** Individuals and households are willing to adopt a variety of measures to optimise their energy consumption. However, these actions focus on the potential for enhancing energy efficiency without by the way resorting to large-scale structural improvements. For example:

• Changes in our everyday habits that can help to reduce home energy bills, lower carbon emissions and ease pressure on the power grid.

- Modest behaviour adjustments that can, over time, yield substantial energy savings on their own.
- "Structural" investments, including upgrades to more energy-efficient appliances and minor retrofits to existing household equipment (i.e. windows, air leaks etc).

This focus is motivated by the observation that interventions aimed at promoting behavioural change are often cheaper to implement relative to policies that seek to encourage investment. Such measures also tend to be relatively quick to design and implement.

On the other hand, there is an interest in visiting more sophisticated action topics (i.e. Produce your energy) with the desire to learn or gather relevant information, so as to decide to take any further action in the (near) future.

**Impact:** Behavioral interventions to bolster energy efficiency are enhanced by the ACT4ECO platform and similar initiatives that aim to educate consumers and encourage them to alter their daily habits. However, there is a need for appropriate policy interventions and programmes to be designed to promote sustainable changes in behaviour and encourage investments in structural improvements. For example:

Traditional approaches to be supplemented by behavioural insights into the policy-making process.

**Traditional approaches** - seek to enhance energy efficiency through economic incentives (such as subsidies for efficient purchases or time-of-use energy pricing), information provision (energy efficiency labels) or regulatory requirements (setting minimum energy performance standards). Such traditional measures assume that users will easily understand the benefits of a policy or programme and react rationally.

**Behavioral insights** - As the mechanisms that affect the way individuals interpret and act upon information are often complex, and ignoring that complexity can limit policy effectiveness, policy interventions and programmes should simultaneously exploit and enhance multiple behavioural levers.

Results from the online survey to evaluate the platform by collecting users' feedback (Deliverable 7.3 Full-scale Actions Evaluation Report) show that 78% of the responders adapted their energy consumption. Since the total number of the responders is small compared to the number of all users, we should discount this percentage before applying it on the total number. We make the assumption that the overall percentage is only half of the percentage in the responders' population:

0.78 x 0.5 x 12,000 = 4,680 users adapted their energy consumption

At the same time, we make the assumption that decisions were household-level, so they affected the energy consumption of whole households (average EU energy consumption per household: 15.4 MWh)

The DoW assumption of 5% energy efficiency increase per engaged consumer is still valid:

4,680 x 0.05 x 15.4 = 3.6 GWh of energy savings per year

Furthermore, 41.45% of the responders indicated that they plan to upgrade either their house or the equipment in the house. We should discound this percentage more aggressively than the previous case:

At the same time, the potential for energy savings is larger (we assume 15% energy efficiency increase):

1,230 x 0.15 x 15.4 = 2.8 GWh of energy savings per year

#### **Policy-related impacts**

In addition to the ACT4ECO platform, the ECO2 project worked on co-creation of policies, innovations and designs in the energy-efficiency field through engagement of policy-makers, designers as well as other relevant stakeholders. In the last semester of the ECO2 project there were 11 policy outreach seminars and one design workshop organised by the ECO2 consortium that aimed at generating policy-relevant recommendations for encouraging change in consumer behaviour on energy efficiency.

As a result of the engagement of 15 designers in June 2021, a <u>Consumers' Sustainable Design</u> <u>Catalogue</u> was developed, including ideas and recommendations to help industrial organisations and decision-makers overcome the market-related challenges that prevent consumers from implementing the solutions proposed on ACT4ECO. The catalogue provides ideas for accelerating the adoption of energy efficient practices and solutions by consumers.

In May – August 2021 nine national policy seminars, followed by two EU-level seminars were held, providing a platform to more than 200 experts (including policy-makers, municipalities, energy agencies, consumer organisations, NGOs, business, and academia and research) to deliberate on energy efficiency policy options on national and EU-level. As a result, a list with policy-related challenges that hinder the implementation of energy efficiency measures by households was generated along with a set of policy recommendations for addressing these challenges and thus increasing the opportunities for consumers to take advantage of measures for increasing energy efficiency of their homes. The results were communicated to policy-makers and other relevant audiences through <u>seven policy briefs</u>, addressing the issues discussed.

## 5. ACT4ECO beyond ECO2

In order to continue to make an impact, the main outcome of the ECO2 project – the ACT4ECO platform – will be maintained and the information it contains will be updated, also uploading additional resources, by the **ECO2 Community of National Nodes**.

The ECO2 Community consists of representatives of the ECO2 consortium as lead members and organisations and companies with interest and responsibilities in areas related to consumeroriented energy efficiency and climate and sustainability topics. Each actor interested in becoming a member of the Community had to accept a Memorandum of Understanding where their responsibilities and rights have been precisely stated. By the end of the project, the Community consist of 8 members representing the countries of Belgium, Cyprus, Denmark, Greece, Ireland, Lithuania, Poland and Slovakia. Their role would be to sustain and develop the open platform to provide citizens in Europe with validated expert knowledge on energy efficiency. The aim is to expand the reach of ACT4ECO and its content and also to make it accessible on more European languages.

The Community will stay open to new members in the future as well. The goal of the ECO2 Community beyond ECO2 is to keep widening and include more countries and stakeholders, to touch all political levels from intergovernmental to local and to steer ACT4ECO in a direction that is fruitful for the sustainable energy transition and citizens involvement in Europe. The ECO2 Community will seek funding to support its goals.

## 6. Concluding remarks

The KPIs were reached as follows:

- 1) Countries engaged 11. Reached
- 2) Consumers engaged 11000. Reached
- 3) ECO2 Actions initiated: 33000. Not reached 7000 actions initiated according to Google Analytics.
- 4) Consumer decisions 55000. Not reached. The surveys of the project indicate, though, that the large majority of users visit ACT4ECO with a clear intention of changing behaviour and take decisions.
- 5) Sustainable behaviour change by half of the decisions. The surveys indicate a clear will to sustain new behaviour. It has not been possible to establish data that can support a conclusion about to which extend this actually is realised.
- 6) ECO2 media coverage 10 media cases per country. Reached.
- 7) Networks and scientific contacts at 25 situations. Reached.

The expected impacts were reached as follows:

- 8) Primary energy savings 360,000 kg oil equivalent. The DoW estimates adjusted to the numbers present indicate that this could be more at the level of 100.000 kg oil. However, this number is very, very uncertain.
- 9) Number of people changing behaviour 60 000. Not fully reached, but not possible to estimate quantitatively.
- 10) Number of consumers reached 11 000. Reached.
- 11) RE investments 2000 kW RES. Not reached, and not possible to estimate reasonably inside the time span of the project.

The project foresaw a number of "Important impacts beyond the mentioned expected", which were reached as follows:

- 12) Consumer engagement for energy efficiency will be mainstreamed Europe-wide. Reached by establishing a site that can be used for many other topics on energy, climate or sustainability related behaviour in the future.
- 13) Considerable economy-of-scale of future energy efficiency campaigns. Reached by the fact that the ACT4ECO platform can be used to roll out new campaigns as a core tool or as an important public education function in a campaign. The full system is developed, so it will in the future only be the costs of creating new content that will need to be paid for.
- 14) The potential expansion of ECO2 to cover adjacent sustainability areas. Reached by the fact that the ACT4ECO platform is fully adaptable and expandable to more themes, and by the fact that the ECO2 Community has been established to aim for this target.

The ECO2 project by nature was a project that faced considerable risks in terms of being based on innovative new platform approaches, having an aim of delivering easy-to-understand know-how about often very difficult topics, an online platform to be in harsh competitions with the extreme number of available platforms of different kinds, and by also competing for the awareness and use of time by consumers. To this came the new challenges induced by the COVID-19 pandemic, which has demanded a very high degree of agility in the development of the platform and in the execution of the recruitment of users.

Seen in the light of these challenges and in the light of the reached KPIs the consortium finds that the mission is satisfactorily accomplished in the sense that it could not reasonably be expected that the project could accomplish all of its aimed impacts.

## APPENDIXES

#### Appendix I – Other relevant data

In order to assess the number of actions visited by users of the platform, we use Google Analytics data. Considering the complexity of the platform, which contains 5 actions, presented in 11 different languages, rather than counting the number of

As presented on the graph below, ACT4ECO has been visited 19 631 times by its users with the frequency of visits broken down into counts of visits from 1 to more than 200 along with the number of page views. A "Session" according to Google Analytics is the period of time the user is actively engaged on the platform with all usage data being associated to a session, while the "Count of Sessions" shows how frequently the users return to the platform (whether the user has visited it just once or more). The "Page Views" column shows the total number of pages viewed.

<b>19,631</b> % of Total: 100.00% (19,631)		<b>44,064</b> % of Total: 100.00% (44,064)	
Count of Sessions 🕜	Sessions 💿		Page Views 🕥
1	12,497		19,665
2	1,931		5,730
3	792		2,335
4	460		1,454
5	332		1,006
6	251		817
7	195		615
8	162		538
9-14	602		2,072
15-25	549		2,091
26-50	659		2,663
51-100	588		2,711
101-200	529		2,117
201+	84		250
			This report was generated on 12/10/2021 at 11:19:15 - Refresh Report



At first glance we can say that the highest share of visits is in the first row which shows the users with at least a single visit to the platform. In the case for ACT4ECO the number is 12 497, which is the amount of new users to the platform for the period May 2020 – August 2021. It is important to note that the number of users that have visited the platform more than once are also included in the line for 1 count of sessions. The logic here is that if a user visits ACT4ECO four times for the reported period, he will appear as one count in the rows 1 to 4 in the "Sessions" column. The reason is that Google Analytics aggregates the number of visits and add them to each relevant line.

## Appendix II – Results of survey integrated within the actions

Below, we present several charts with results from the surveys integrated in the action topics on ACT4ECO. The examples provided are replies to questions related to users' motivation to take action with regard to improving energy efficiency in their everyday life after exploring ACT4ECO content ("What are you planning to do next?"), as well as reasoning for visiting the platform or the concrete

actions ("Why are you here?"). A number of topics did not contain any questions as they were considered inapplicable to them, thus, the results presented in this section refer only to the following topics:

- Improve your home insulation
- Improve air tightness
- Change or upgrade your windows
- Improve your HVAC system
- Electricity bill
- Appliances
- Rhythms and routines
- Energy sufficiency to maintain efficient energy use
- Onsite energy generation
- Solar photovoltaic systems
- Micro-combined heat and power systems
- Energy storage and hybrid systems
- Solar water heating systems



Out of all users who entered the "Improve your home insulation" topic, 42 replied to the question about what their plans are with regard to the insulation of their homes. 71 % of the respondents indicated readiness to act now or in the near future, while 29% of the users rather visited the topic to learn something new,

without necessarily planning any changes in the near future.

In the "Improve air *tightness*" topic 70 respondents answered the question about taking action. 49% of those indicated that they will take measures either by themselves or with the help of a professional to handle air leaks at home. 27% have already fixed air leaks at home while 24% have stated that they have detected no



air leaks and they feel comfortable at home.





Within the topic "Change or upgrade your windows" 57 users shared their plans with regard to what was presented in the topic. 74% would upgrade their windows in the near future. 26% of the respondents have their windows already upgraded.

9 users responded to the question about their plans with regard to the HVAC systems. 89% of those are planning to take action while 11% are not planning to take any measures related to HVAC systems for their homes.

# Improve your HVAC system: What are you planning to do next?





Teaching users how to read their electricity bills was also among the topics on the platform. 29 users replied to the question about what they are going to do to reduce their energy bills in the future. 93% shared that they are planning to reduce their energy consumption by cutting down on the use of their washing

machines, dishwashers or TV set as well as replacing their light bulbs with LED bulbs. Only 7% of the respondents are not planning any action to reduce their energy bill.

Appliances and their use is another important topic that has been part of the ACT4ECO content. 21 of this topic's visitors shared their plans with regard to appliances at home. 19% indicated that their appliances are already up to date and they do not consider any changes in this regard, while 57% are planning to



take action by inspecting their appliances and identifying the ones consuming the most. The rest 24% of the respondents do not plan any concrete action in the near future.



The topic "Rhythms and routines" aimed to increase awareness on everyday energy consumption habits by helping users reflect on their daily energy consumption at home. 27 of the users visiting the action shared their plans for action after through going the ACT4ECO content. 11% of the respondents were still not ready to

readjust their lifestyle and routines towards more conscious use of appliances at home. The rest 89% emphasised that they would reconsider the frequency they use their appliances with (52%) and although they already use their appliances wisely, the session provided valuable advice to follow (37%).

40 users of those that "Energy visited the sufficiency to maintain efficient energy use" topic shared their plans regarding changing their habits and behaviour shift to towards energy sufficiency. All of the respondents were ready to act or have already changed habits and behaviour and started consuming energy wisely.





The following five pie-charts present the results of the questions related to households' selfgeneration of energy from renewable energy sources. The visitors of the "Produce your own energy" topics were asked about their motivation to visit the concrete actions. The answers varied from willingness to learn something new and affinity to new technologies for energy self-generation to already considering investing in energy self-generation.



The "Onsite energy generation" topic presented the available technological solutions selffor energy generation as well as some major characteristics of the process. An overall of 52 users replied to the question about their interest in the concrete topic. 38% of the respondents stated that thev are seriously

considering generating their own energy at home. Half of the respondents visited the topic to learn about saving energy by producing it on their own (21%) or because they were interested in what they can do to preserve the planet (29%).

Within "Solar the photovoltaic svstems" topic 217 users answered the question about the reason for visiting this concrete action. Almost 1/3th of the respondents have declared their intent to invest in a PV system another and 30% researched this concrete topic, some of them with the intent to compare different ways to generate energy at home. 28% of those who



responded to the question wanted to learn something new, while 13% could not give a specific reason for visiting the topic.



Another technology for selfenergy generation that is presented on ACT4ECO is solar water heating system. 29 users informed us on their motivation to read about this type of Although systems. only 7% planned to invest in solar water heating systems, 17% were curious to know more about solar technologies and 55%

wanted to learn more about how to utilise solar energy. 21% did not have a specific reason to visit the topic.



"Micro-combined heat and power systems" is another topic accessible to the users interested in energy selfgeneration. 49 users indicated why they entering this are particular topic. A high percentage of respondents the (59%) indicated that they are considering investing in an selfenergy

generation technology and 31% were curious to learn more about this particular technology. 10% of the respondents could not provide a specific reason for their visit.



"Energy storage and hybrid renewable energy systems" topic 25 users provided for reasoning their visit. 12% of them stated that they entered the topic because they are planning to invest in a hybrid system and want to learn

the

more about it, while 4% have already installed an energy self-generation system and wanted to learn about how they could upgrade it to a hybrid system. The highest percentage of visitors were just curious to learn something new (52%), while 32% could not give a specific reason for visiting this particular topic.

## Appendix III – Media coverage

Туре	Media	Partner	Date	Title	Link
Online	Magazine	ARC Fund	25.2.2021	Как Европа ще излезе от кризата по-зелена?	https://gobio.bg/2021/02/25/kak-evropa-shte- izleze-ot-krizata-po-zelena/
Online	Newsletter	ARC Fund	1.3.2021	Електронен бюлетин на общинската мрежа за енергийна ефективност	http://www.ecoenergy- bg.net/UserFiles/File/Publication%20Feb%202021%2 0(2).pdf
Online	Organisational website	ARC Fund	5.3.2021	Онлайн обучителна платформа АСТ4ЕСО и пестене на енергия - как да намалите въглеродния отпечатък на Вашия дом	<u>shorturl.at/fxyGT</u>
Online	Newsletter	ARC Fund	19.3.2021	Дългът да спасим планетата (Active Consumers Bulgaria newsletter)	Disseminated by e-mail
Online	Newsletter	ARC Fund	26.3.2021	Полезни съвети за комфорт и икономии в дома (Active Consumers Bulgaria newsletter)	Disseminated by e-mail
Online	Online media	ARC Fund	1.6.2021	Получаваш новата сметка за ток или отопление и отново сумата ти се струва твърде висока?	https://sandanski1.com/2021/06/01/1386/?fbclid=l wAR1OsBKrilmxO9DbgcQ0sh6owCvfAgJv- ENjEBU7E1DbHHuCPGXXsxxQoiM
Online	Newsletter	ARC Fund	2.7.2021	Електронен бюлетин на общинската мрежа за енергийна ефективност	http://www.ecoenergy- bg.net/UserFiles/File/Publication%20June1%202021. pdf
Online	Pressrelease	DECO	6.10.2020	Como tornar as casas mais confortáveis e eficientes, diminuir a pegada ambiental e Poupar	https://www.idealista.pt/news/imobiliario/habitaca o/2020/10/05/44803-como-tornar-as-casas-mais- confortaveis-e-eficientes-diminuir-a-pegada- ambiental-e?xts=582068&xtor=RSS-37
Online	Pressrelease	DECO	12.10.2020	Truques para entender a fatura da luz e controlar e baixar os consumos de energia	https://www.idealista.pt/news/financas/lar/2020/10 /09/44866-truques-para-entender-a-fatura-da-luz-e- controlar-e-baixar-os-consumos-de-energia
Online	Pressrelease	DECO	19.10.2020	Fatura da luz alta com equipamentos eficientes? Os comportamentos têm (também) de ser eficientes	https://www.idealista.pt/news/financas/lar/2020/10 /16/44943-a-fatura-da-luz-nao-baixa-com- equipamentos-eficientes-os-comportamentos-tem- tambem-de-ser



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Online	Pressrelease	DECO	26.10.2020	Como ter uma casa mais "verde": a importância e as vantagens de produzir a própria energia	https://www.idealista.pt/news/imobiliario/habitaca o/2020/10/23/45026-como-ter-uma-casa-mais- verde-a-importancia-e-as-vantagens-de-produzir- energia-em-casa?xts=582068&xtor=RSS-37
Online	Pressrelease	DECO	2.11.2020	Como escolher a caldeira certa para ter a casa confortável no inverno?	https://www.idealista.pt/news/financas/lar/2020/10 /30/45113-como-escolher-a-caldeira-certa-para-ter- a-casa-confortavel
Online	Newspaper	DECO	10.11.2020	Como ter uma casa mais "verde": a importância e as vantagens de produzir a própria energia	https://www.idealista.pt/news/imobiliario/habitaca o/2020/10/23/45026-como-ter-uma-casa-mais- verde-a-importancia-e-as-vantagens-de-produzir- energia-em-casa?xts=582068&xtor=RSS-37
Online	Journal	DECO	11.11.2020	Saiba como reduzir a sua fatura energética com equipamentos mais eficientes	https://jornaleconomico.sapo.pt/noticias/saiba-o- que-tem-de-fazer-para-tirar-proveito-de- equipamentos-eficientemente-energeticos-661171
Online	Journal	DECO	11.11.2020	Saiba como reduzir a sua fatura energética com equipamentos mais eficientes	https://jornaleconomico.sapo.pt/noticias/saiba-o- que-tem-de-fazer-para-tirar-proveito-de- equipamentos-eficientemente-energeticos-661171
Online	Journal	DECO	11.11.2020	Está a pensar adquirir uma caldeira para aquecer a sua casa no inverno?	https://averdade.com/consumidor/2020-11-15-Esta- a-pensar-adquirir-uma-caldeira-para-aquecer-a-sua- casa-no-inverno-
Offline	Journal	DECO	11.11.2020	O cantinho do consumidor	-
Offline	Journal	DECO	12.11.2020	ACT4ECO o projeto da Deco que o vai ajudar a gerir os consumos de energia	-
Online	Journal	DECO	15.11.2020	Está a pensar adquirir uma caldeira para aquecer a sua casa no inverno?	https://averdade.com/consumidor/2020-11-15-Esta- a-pensar-adquirir-uma-caldeira-para-aquecer-a-sua- casa-no-inverno-
Offline	Journal	DECO	18.11.2020	ESTÁ A PENSAR ADQUIRIR UMA CALDEIRA PARA AQUECER A SUA CASA NO INVERNO? DEIXAMOS ALGUNS CONSELHOS.	-
Offline	Journal	DECO	18.11.2020	ACT4EC0 o projeto da DECO que o vai ajudar a gerir os consumos de energia	-

Offline	Journal	DECO	18.11.2020	PROJECTO DA DECO vai ajudar a gerir os consumos de energia	https://issuu.com/campeaodasprovincias/docs/cam peao_digital_148
Offline	Journal	DECO	20.11.2020	Está a pensar adquirir uma caldeira para aquecer a sua casa no Inverno? Deixamos alguns conselhos	-
Offline	Journal	DECO	20.11.2020	Está a pensar adquirir uma caldeira para aquecer a sua casa no Inverno? Deixamos alguns conselhos	-
Offline	Journal	DECO	24.11.2020	Seja um consumidor consciente	-
Offline	Journal	DECO	25.11.2020	ACT4ECO o projeto da DECO que o vai ajudar a gerir os consumos de energia	-
Offline	Journal	DECO	25.11.2020	Seja um consumidor consciente	-
Online	Journal	DECO	25.11.2020	DECO: Seja um consumidor consciente!	https://portugalzonaaberta.blogspot.com/2020/11/
					deco-seja-um-consumidor-consciente.html
Offline	Journal	DECO	26.11.2020	Está a pensar adquirir uma caldeira para aquecer a sua casa no Inverno? Deixamos alguns conselhos	-
Offline	Journal	DECO	26.11.2020	<ul> <li>o: ACT4EC0 o projeto da DECO que o vai ajudar a gerir os consumos de energia</li> </ul>	-
Offline	Journal	DECO	26.11.2020	ACT4ECO o projeto da DECO que o vai ajudar a gerir os consumos de energia	-
Offline	Journal	DECO	27.11.2020	ACT4ECO	-
Offline	Journal	DECO	27.11.2020	ACT4ECO	-
Offline	Journal	DECO	27.11.2020	ACT4ECO	-
Offline	Journal	DECO	27.11.2020	ACT4ECO	-
Offline	Journal	DECO	27.11.2020	ACT4ECO	-
Online	Journal	DECO	28.11.2020	ACT4ECO o projeto da DECO que o vai ajudar a gerir os consumos de energia	https://odigital.sapo.pt/act4eco-o-projeto-da-deco- gue-o-vai-ajudar-a-gerir-os-consumos-de- energia/?fbclid=IwAR0GnU4fyQN691zYPAX3EXJ_9Xg 5QoG8uVzCJf3jnol5EZvZovj78IJ3BeI
Offline	Journal	DECO	30.11.2020	ACT4ECO o projeto da DECO que o vai ajudar a gerir os consumos de energia	-
Online	Journal	DECO	1.12.2020	A leitura da fatura da eletricidade pode ser um bicho de sete cabeças! Nós ajudamos	https://averdade.com/consumidor/2020-12-01-A- leitura-da-fatura-da-eletricidade-pode-ser-um-bicho- de-sete-cabecas-Nos-ajudamos

Online	Journal	DECO	2.12.2020	A leitura da fatura da eletricidade pode ser um bicho de sete cabeças! Nós ajudamos	-
Online	Journal	DECO	3.12.2020	ESTÁ A PENSAR ADQUIRIR UMA CALDEIRA PARA AQUECER A SUA CASA NO INVERNO? DEIXAMOS ALGUNS CONSELHOS.	https://audiencia.pt/esta-a-pensar-adquirir-uma- caldeira-para-aquecer-a-sua-casa-no-inverno- deixamos-alguns-conselhos/
Offline	Journal	DECO	3.12.2020	DECO aconselha Está a pensar adquirir uma caldeira para aquecer a sua casa no Inverno?	https://issuu.com/jornaldoave/docs/ja192
Offline	Journal	DECO	3.12.2020	Seja um consumidor consciente	-
Online	Journal	DECO	4.12.2020	CONSULTÓRIO DECO: "ACT4ECO o novo projeto DECO sobre eficiência energética"	https://regiao-sul.pt/2020/12/04/deco/consultorio- deco-act4eco-o-novo-projeto-deco-sobre-eficiencia- energetica/520084
Online	Journal	DECO	4.12.2020	DECO: Projeto "ACT4ECO" para ajudar a gerir os consumos de energia em casa	https://www.maisalgarve.pt/rubricas/consultorio- do-consumidor/23548-deco-projeto-act4eco-para- ajudar-a-gerir-os-consumos-de-energia-em-casa
Online	Journal	DECO	4.12.2020	DECO Algarve: ACT4ECO ajuda a gerir os consumos de energia em casa	https://correiodelagos.com/turismo-negocios/deco- proteste-act4eco-ajuda-a-gerir-os-consumos-de- energia-em-casa/
Online	Journal	DECO	4.12.2020	Reduza a sua fatura energética com equipamentos mais eficientes	https://www.minhodigital.com/news/espaco-deco- minho-63
Online	Journal	DECO	5.12.2020	ACT4EC0 o projeto da DECO que o vai ajudar a gerir os consumos de energia	http://www.cincoquinas.net/?news=act4eco-o- projeto-da-deco-que-o-vai-ajudar-a-gerir-os- consumos-de-energia
Online	Journal	DECO	6.12.2020	O que posso fazer para melhorar o isolamento da minha casa?	https://averdade.com/consumidor/2020-12-06-O- que-posso-fazer-para-melhorar-o-isolamento-da- minha-casa-
Offline	Journal	DECO	9.12.2020	Seja um consumidor consciente	-
Online	Journal	DECO	9.12.2020	Seja um consumidor consciente	-
Online	Journal	DECO	10.12.2020	Dificuldade em compreender a fatura da eletricidade? A Deco Alentejo ajuda-o!	https://odigital.sapo.pt/dificuldade-em- compreender-a-fatura-da-eletricidade-a-deco- alentejo-ajuda- o/?fbclid=IwAR3GXONnwuFJCYUmvJswJEonXkY_Ve3 gPTFoa_OWbgSXEyDUu5erUbbD6cE
Offline	Journal	DECO	10.12.2020	Seja um consumidor consciente	-

Offline	Journal	DECO	11.12.2020	ACT4ECO o projeto da DECO que o vai ajudar a gerir os consumos de energia	-
Online	Journal	DECO	15.12.2020	O que é a eficiência energética e como é que pode melhorar a sua casa?	https://jornaleconomico.sapo.pt/noticias/o-que-e-a- eficiencia-energetica-e-como-e-que-pode-melhorar- a-sua-casa-676037
Online	Journal	DECO	15.12.2020	DECO ajuda a gerir os consumos de energia	https://jornaldascaldas.com/DECO_ajuda_a_gerir_o s_consumos_de_energia_
Online	Journal	DECO	15.12.2020	DECO ajuda a gerir os consumos de energia	https://jornaloeste.pt/journalnews/DECO-ajuda-a- gerir-os-consumos-de-energia-
Offline	Journal	DECO	16.12.2020	DECO ajuda a gerir os consumos de energia com o projeto ACT4ECO	
Online	Journal	DECO	16.12.2020	DECO ajuda a gerir os consumos de energia	https://jornaldascaldas.com/DECO ajuda a gerir o s consumos de energia
Online	Journal	DECO	17.12.2020	Sabe o que é necessário para beneficiar da tarifa social?	https://jornaleconomico.sapo.pt/noticias/sabe-o- que-e-necessario-para-beneficiar-da-tarifa-social- 676810
Online	Journal	DECO	17.12.2020	Sabe o que é necessário para beneficiar da tarifa social?	https://jornaleconomico.sapo.pt/noticias/sabe-o- que-e-necessario-para-beneficiar-da-tarifa-social- 676810
Offline	Journal	DECO	30.12.2020	Aprenda a gerir o seu consumo de energia	-
Offline	Journal	DECO	31.12.2020	Aprenda a gerir o seu consumo de energia- Artigo/Crónica por Deco Centro	\\decosrvfs\4_DFE\4.2_Projetos\Execução\ECO 2\Disseminacao\Evidencias\Imprensa\2021-01-05 CINCO QUINAS.pdf
	Jornal Audiência Online	DECO	4.1.2021	A LEITURA DA FATURA DA ELETRICIDADE PODE SER UM BICHO DE SETE CABEÇAS! NÓS AJUDAMOS.	https://audiencia.pt/a-leitura-da-fatura-da- eletricidade-pode-ser-um-bicho-de-sete-cabecas- nos-ajudamos/
Offline	Journal	DECO	5.1.2021	Seja um consumidor consciente	-
Online	Journal	DECO	6.1.2021	DECO Esclarece! – Plataforma AC4ECO	https://youtu.be/Zwng3Kz9RcE
Online	Journal	DECO	6.1.2021	DECO Esclarece! – Plataforma AC4ECO	https://viseunow.pt/a-deco-esclarece-plataforma- ac4eco/
Online	Other	DECO	6.1.2021	DECO Esclarece! – Plataforma AC4ECO	https://fb.watch/2Y8vEZXIV1/

Online	Organisational website	DECO	12.1.2021	ACT4ECO – Projetos de Eficiência Energética!	https://www.cm-santarem.pt/apoio-ao- municipe/noticias/item/4159-ct4eco-projetos-de- eficiencia-energetica
Online	Journal	DECO	15.1.2021	DECO: "O que fazer para a fatura da eletricidade baixar?"	https://postal.pt/sociedade/2021-01-15-DECO-O- gue-fazer-para-a-fatura-da-eletricidade-baixar-
Online	Journal	DECO	15.1.2021	DECO Algarve explica como diminuir o consumo de energia e baixar a factura da electricidade	https://correiodelagos.com/politica-ambiente/deco- algarve-explica-como-diminuir-o-consumo-de- energia-e-baixar-a-factura-da-electricidade/
Online	Journal	DECO	16.1.2021	"Na nossa casa, a fatura da eletricidade é sempre muito elevada, temos tentado diminuir o consumo de energia, comprando eletrodomésticos mais eficientes. No entanto, não estamos a conseguir"	https://planetalgarve.com/2021/01/16/na-nossa- casa-a-fatura-da-eletricidade-e-sempre-muito- elevada-temos-tentado-diminuir-o-consumo-de- energia-comprando-eletrodomesticos-mais- eficientes-no-entanto-nao-estamos-a-conseguir/
Online	Economico Madeira	DECO	19.1.2021	Saiba quais as medidas que pode implementar para melhorar o desempenho energético	https://jornaleconomico.sapo.pt/noticias/saiba- guais-as-medidas-que-pode-implementar-para- melhorar-o-desempenho-energetico-689227
Online	Journal	DECO	20.1.2021	Sabia que se não mudar os seus comportamentos depois de implementar uma medida de eficiência energética, o consumo de energia pode permanecer o mesmo ou até aumentar?	-
Online	Journal	DECO	21.1.2021	Sabia que se não mudar os seus comportamentos depois de implementar uma medida de eficiência energética, o consumo de energia pode permanecer o mesmo ou até aumentar?	https://labor.pt/home/2021/01/21/sabia-que-se- nao-mudar-os-seus-comportamentos-depois-de- implementar-uma-medida-de-eficiencia-energetica- o-consumo-de-energia-pode-permanecer-o-mesmo- ou-ate-aumentar/
Online	Journal	DECO	22.1.2021	CONSULTÓRIO DECO: Aquecimento mais eficiente	https://regiao-sul.pt/2021/01/22/deco/consultorio- deco-aquecimento-mais-eficiente/526990
Online	Journal	DECO	22.1.2021	"Será que uma caldeira é o melhor equipamento de aquecimento para a minha casa?"	https://maisalgarve.pt/rubricas/consultorio-do- consumidor/24118-sera-que-uma-caldeira-e-o- melhor-equipamento-de-aquecimento-para-a- minha-casa

Online	Journal	DECO	22.1.2021	"Será que uma caldeira é o melhor equipamento de aquecimento para a minha casa?"	https://planetalgarve.com/2021/01/22/sera-que- uma-caldeira-e-o-melhor-equipamento-de- aquecimento-para-a-minha-casa/
Online	Journal	DECO	24.1.2021	DECO informa sobre Eficiência Energética no Inverno	https://www.avozdoalgarve.pt/detalhe.php?id=4988 5
Online	Journal	DECO	24.1.2021	Consumo de energia pode aumentar caso não mude os seus comportamentos	https://averdade.com/consumidor/2021-01-24- Consumo-de-energia-pode-aumentar-caso-nao- mude-os-seus-comportamentos
	Journal	DECO	27.1.2021	Produzir energia em casa? Quais as vantagens	-
Offline	Journal	DECO	27.1.2021	Produzir energia em casa?! Quais as vantagens	-
Offline	Journal	DECO	28.1.2021	"Será que uma caldeira é o melhor equipamento de aquecimento para a minha casa?"	-
Offline	Journal	DECO	28.1.2021	A DECO aconselha	-
Online	Journal	DECO	30.1.2021	SABIA QUE SE NÃO MUDAR OS SEUS COMPORTAMENTOS DEPOIS DE IMPLEMENTAR UMA MEDIDA DE EFICIÊNCIA	https://audiencia.pt/sabia-que-se-nao-mudar-os- seus-comportamentos-depois-de-implementar-uma- medida-de-eficiencia-energetica-que-o-consumo-de- energia-pode-permanecer-o-mesmo-ou-ate- aumentar/
Offline	Journal	DECO	1.2.2021	Produzir energia em casa?! Quais as vantagens	-
Offline	Journal	DECO	1.2.2021	Sabia que se não mudar os seus comportamentos depois de implementar uma medida de eficiência en	-
Offline	Journal	DECO	1.2.2021	Como aquecer adequadamente a minha casa que fica muito húmida e fria nesta altura do ano?	-
Online	Journal	DECO	2.2.2021	COMO AQUECER ADEQUADAMENTE A MINHA CASA QUE FICA MUITO HÚMIDA E FRIA NESTA ALTURA DO ANO?	<u>https://audiencia.pt/como-aquecer-</u> <u>adequadamente-a-minha-casa-que-fica-muito-</u> <u>humida-e-fria-nesta-altura-do-ano/</u>
Offline	Journal	DECO	3.2.2021	Produzir energia em casa?! Quais as vantagens	-
Online	Journal	DECO	11.2.2021	Sabia que se não mudar os seus comportamentos depois de implementar uma medida de eficiência energética, que o consumo de energia pode permanecer o mesmo ou até aumentar?	https://www.mdb.pt/opiniao/deco/sabia-que-se- nao-mudar-os-seus-comportamentos-depois-de- implementar-uma-medida-de

Online	Journal	DECO	26.2.2021	Saiba como aumentar a duração da bateria dos seus dispositivos	https://jornaleconomico.sapo.pt/noticias/saiba- como-aumentar-a-duracao-da-bateria-dos-seus- dispositivos-704596
Offline	Journal	DECO	26.2.2021	Saiba como aumentar a duração da bateria dos seus dispositivos	-
Online	Journal	DECO	14.12.2020	Projeto "ACT4ECO"	https://barcelosnahora.pt/projeto-act4eco/
Online	O Jornal Económico Online	DECO	31.5.2021	Saiba como poupar em energia	https://jornaleconomico.sapo.pt/noticias/saiba- como-poupar-em-energia-745156
Radio	Rádio Campo Maior	DECO	1.1.2021	Plataforma online ACT4ECO é o tema da Deco	<u>\\decosrvfs\4_DFE\4.2_Projetos\Execução\ECO</u> <u>2\Disseminacao - DECO\Evidencias\Imprensa\2021-</u> <u>01-01 Rádio Campo Maior.pdf</u>
Radio	Rádio Horizonte	DECO	9.12.2020	ACT4ECO	\\decosrvfs\4_DFE\4.2_Projetos\Execução\ECO 2\Disseminacao - DECO\Evidencias\Radios\2020- 012-09 Rádio Horizonte.mp3
Radio	Rádio Gilão	DECO	11.12.2020	Consultório do consumidor da DECO - Já conhece o projeto da DECO chamado ACT4ECO para ajudar a gerir os consumos de energia em casa?	https://hearthis.at/5397333/
Radio	Rádio Campo Maior	DECO	1.1.2021	Notícias da manhã de sexta-feira, dia 1 de janeiro	https://radiocampomaior.com/2021/01/01/noticias- da-manha-de-sexta-feira-dia-1-10/
Radio	Rádio Campo Maior	DECO	8.1.2021	DECO ajuda a compreender informação da fatura da luz	https://radiocampomaior.com/2021/01/08/deco- ajuda-a-compreender-informacao-da-fatura-da-luz/
Radio	Rádio Campo Maior	DECO	8.1.2021	Notícias da manhã de sexta-feira, dia 8	https://radiocampomaior.com/2021/01/08/noticias- da-manha-de-sexta-feira-dia-8-7/
Radio	Rádio Elvas	DECO	1.1.2021	Notícias da manhã de sexta-feira dia 1	https://radioelvas.com/2021/01/01/noticias-da- manha-de-sexta-feira-dia-1-6/
Radio	Rádio Elvas	DECO	1.1.2021	Plataforma online ACT4ECO é o tema da Deco	https://radioelvas.com/2021/01/01/plataforma- online-act4eco-e-o-tema-da-deco/
Radio	Rádio Elvas	DECO	8.1.2021	DECO ajuda a compreender informação da fatura da luz	https://radioelvas.com/2021/01/08/deco-ajuda-a- compreender-informacao-da-fatura-da-luz/
Radio	Rádio Nova Antena	DECO	1.1.2021	Notícias da manhã de sexta-feira, dia 1 de janeiro	https://radionovaantena.com/2021/01/01/noticias- da-manha-de-sexta-feira-dia-1-de-janeiro/

Radio	Rádio Nova Antena	DECO	1.1.2021	Plataforma online ACT4ECO é o tema da Deco	https://radionovaantena.com/2021/01/01/platafor ma-online-act4eco-e-o-tema-da-deco/
Radio	Rádio Nova Antena	DECO	8.1.2021	DECO ajuda a compreender informação da fatura da luz	https://radionovaantena.com/2021/01/08/deco- ajuda-a-compreender-informacao-da-fatura-da-luz/
Radio	Rádio Fóia	DECO	2.12.2020	Rubrica: "A DECO + PERTO DE SI" com Juristas da Deco - Delegação Regional do Algarve (quarta-feira às 10H35)	https://www.facebook.com/fatimaperes.programas/ posts/4029472740425905?notif_id=1606926446677 461&notif_t=feedback_reaction_generic_tagged&ref =notif
Radio	Terra Nova	DECO	19.1.2021		https://www.terranova.pt/sites/default/files/podcas ts/2021-01-19_deco.mp3
Online press	Barcelos na Hora	DECO	9.6.2021	Fatura da eletricidade vs equipamentos eficientes	https://barcelosnahora.pt/fatura-da-eletricidade-vs- equipamentos-eficientes/
Paper press	Novo Perfil	DECO	16.6.2021	Mesa redonda debateu a sensibilização dos consumidores para a eficiência energética	<u>ND</u>
Paper press	O Instalador	DECO	16.6.2021	Mesa redonda debateu a sensibilização dos consumidores para a eficiência energética	<u>ND</u>
Partner/S takeholde r Channels	AGENEAL	DECO	1.6.2021	ACT4ECO - Aprendizagem Online sobre Eficiência Energética	https://www.ageneal.pt/noticia/act4eco- aprendizagem-online-sobre-eficiencia-energetica
Partner/S takeholde r Channels	Direção Geral do Consumidor	DECO	14.6.2021	DGC participa em debate sobre eficiência energética	https://www.consumidor.gov.pt/comunicacao/notici as/dgc-participa-em-debate-sobre-eficiencia- energeticaaspx
Partner/S takeholde r Channels	DECO	DECO	25.6.2021	Mesa redonda do ACT4ECO	https://deco.pt/energia/mesa-redonda-act4eco/
Online	Organisational website	HEBES	12.2.2021	Η πλατφόρμα εκπαίδευσης που φέρνει την εξοικονόμηση και την ορθή διαχείριση ενέργείας σε κάθε νοικοκυριό (The eLearning platform that brings energy-saving actions close to evergy household)	https://energypress.gr/news/i-platforma- ekpaideysis-poy-fernei-tin-exoikonomisi-kai-tin- orthi-diaheirisi-tis-energeias-se

Online	Journal	HEBES	19.2.2021	ACT4ECO: Η δυναμική πλατφόρμα εκπαίδευσης για την ορθή διαχείριση της ενέργειας (ACT4ECO: The dynamic knowledge-sharing platform for the proper way of managing household energy)	https://www.lifo.gr/now/perivallon/act4eco-i- dynamiki-ilektroniki-platforma-gia-tin-orthi- diaheirisi-tis-energeias
Offline	Journal	HEBES	25.2.2021	ΑCT4ECO: Η δυναμική πλατφόρμα εκπαίδευσης για την ορθή διαχείριση της ενέργειας (ACT4ECO: The dynamic knowledge-sharing platform for the proper way of managing household energy)	https://issuu.com/maglifo/docs/673low/39
Online	Other	SINERGIE	10.2.2020	"It's time to change"	https://www.linkedin.com/pulse/e-ora-di-cambiare- act4eco-italia/
Online	Other	SINERGIE	11.6.2020	"ACT4ECO Actions"	https://www.linkedin.com/pulse/le-azioni-di- act4eco-act4eco-italia/
Online	Pressrelease	SINERGIE	24.9.2020	"Active Citizenship took part in ASVIS festival to promote the fight against waste"	https://www.cittadinanzattiva.it/notizie/consumator i/13550-al-festival-asvis-anche-cittadinanzattiva-per- la-lotta-allo-spreco.html
Online	Organisational website	UCC	22.6.2020	ACT4ECO and Sustainable Energy Week	
Online	Newspaper	UCC	10.9.2020	5 Cost effective ways to reduce your carbon footprint at home.	https://theconversation.com/five-cost-effective- ways-to-reduce-your-carbon-footprint-at-home- 144039
Online	Other	UCC	10.9.2020	5 cost-effective ways to reduce your carbon footprint at home.	
Online	Organisational website	UCC	16.9.2020	ACT4ECO and World Ozone Day	
Online	Newspaper	UCC	17.9.2020	5 cost-effective ways to reduce your carbon footprint at home.	https://www.weforum.org/agenda/2020/09/effectiv e-ways-reduce-carbon-footprint-save-money/

Online	Newspaper	UCC	21.9.2020	5 cara hemat untuk mengurangi jejak karbon di rumah	https://theconversation.com/5-cara-hemat-untuk- mengurangi-jejak-karbon-di-rumah- 146299?utm_medium=email&utm_campaign=Impac t%20Report%20for%20University%20College%20Cor k%20October%202020&utm_content=Impact%20Re port%20for%20University%20College%20Cork%20Oc tober%202020+CID_684dc823a5800081d6c696c019 15f5fd&utm_source=campaign_monitor_uk&utm_te rm=5%20cara%20hemat%20untuk%20mengurangi% 20jejak%20karbon%20di%20rumah
Online	Organisational website	UCC	26.11.2020	ACT4ECO and Cork Discovers	
Online	Organisational website	UCC	8.4.2021	ACT4ECO and Carberry Housing Association Event	
Online	Organisational website	UCC	9.4.2021	ECO2 & ACT4ECO Design Jam Promotion	
Online	Organisational Website	UCC	17.5.2021	ECO2 & ACT4ECO Policy Seminar. Future landscapes: Translating energy insights into sustainable policy and action.	
Online	Journal	UCC	14.7.2021	Open E-Learning Platforms And The Design-Reality Gap: Exploring The Impact Of User-Perceived Functional Affordances. UCC & UH	
Online	Newsletter	UH	8.4.2021	ACT4ECO platform promotion	https://mailchi.mp/625828b8f722/valtiotieteellisen- tiedekunnan-alumnikirje-42021?e=bcb6075336

Online	Organisational website	UH	4.5.2021	Event on UH event calendar for the event "Pelit, testit ja suora palaute: Miten kuluttajien energiakäyttäytymiseen voidaan vaikuttaa?"	https://helsinginyliopisto.etapahtuma.fi/flamma- 2019/fi?id=61010#.YJt4LetRWJR
Online	The Brussels Times	SDS	16.03.2021	Publication of an article	https://www.brusselstimes.com/opinion/160117/en ergy-a-reliable-investment-that-pays-off-over-time/
Online	ECOBUILD	SDS	12.05.2021	Publication of an article	https://ecobuild.brussels/conscientiser-sur-la- consommation-denergie-et-fournir-une-aide-pour- la-diminuer/
Online Article	Energyin.gr	HEBES	10/02/2021	Article about the ACT4ECO platform and the ECO2project: Πλατφόρμα ηλεκτρονικής εκπαίδευσης με περιβαλλοντικό χαρακτήρα (The eLearning platform for the environment)	https://energyin.gr/2021/02/10/platforma- ilektronikis-ekpaideusis/
Online Article	EnergyPress.g r	HEBES	12/02/2021	Article about the ACT4ECO platform and the ECO2project: πλατφόρμα εκπαίδευσης που φέρνει την εξοικονόμηση και την ορθή διαχείριση ενέργειας σε κάθε νοικοκυριό (The eLearning platform that brings energy-saving actions close to every household)	https://energypress.gr/news/i-platforma- ekpaideysis-poy-fernei-tin-exoikonomisi-kai-tin- orthi-diaheirisi-tis-energeias-se
Article	LiFo journal/press edition	HEBES	18/02/2021	ACT4ECO: δυναμική πλατφόρμα εκπαίδευσης για την ορθή διαχείριση της ενέργειας (ACT4ECO: The dynamic knowledge- sharing platform for the proper way of managing household energy)	
Online Article	LiFo journal	HEBES	19/02/2021	Article about the ACT4ECO platform and the ECO2project (special issue on energy) ACT4ECO: Η δυναμική πλατφόρμα εκπαίδευσης για την ορθή διαχείριση της ενέργειας (ACT4ECO: The dynamic knowledge- sharing platform for the proper way of managing household energy)	https://www.lifo.gr/now/perivallon/act4eco-i- dynamiki-ilektroniki-platforma-gia-tin-orthi- diaheirisi-tis-energeias
Online Article	LiFo magazine	HEBES	25/02/2021	Article about the ACT4ECO platform and the ECO2project (special issue on energy) ACT4ECO: Η δυναμική πλατφόρμα εκπαίδευσης για την ορθή διαχείριση της ενέργειας (ACT4ECO: The dynamic knowledge- sharing platform for the proper way of managing household energy	https://issuu.com/maglifo/docs/673low/39

Online Article	Eleftheria journal (web edition)		03/06/2021	Article about the ACT4ECO platform and the ECO2project/ Promo on the National Policy Event) «Έξυπνες λύσεις» για εξοικονόμηση ενέργειας ΜΕΣΩ ΤΗΣ ΠΛΑΤΦΟΡΜΑΣ ΗΛΕΚΤΡΟΝΙΚΗΣ ΕΚΠΑΙΔΕΥΣΗΣ «ACT4Eco» ("Smart tips" for energy conservation. VIA THE "ACT4Eco" eLEARNING PLATFORM)	https://www.eleftheria.gr/%CE%BF%CE%B9%CE%BA %CE%BF%CE%BD%CE%BF%CE%BC%CE%AF%CE%B1/ item/290424- %C2%ABe%CE%BE%CF%85%CF%80%CE%BD%CE%B5 %CF%82- %CE%BB%CF%8D%CF%83%CE%B5%CE%B9%CF%82 %C2%BB-%CE%B3%CE%B9%CE%B1- %CE%B5%CE%BE%CE%BF%CE%B9%CE%BA%CE%BF %CE%BD%CF%8C%CE%BF%CE%B9%CE%BA%CE%BF %CE%BD%CF%8C%CE%BC%CE%B7%CF%83%CE%B5- %CE%B5%CE%BD%CE%AD%CF%81%CE%B3%CE%B5 %CE%B9%CE%B1%CF%82.html
Newslette r online	Cyprus Energy Forum	HEBES	04/2021	ΑCT4ECO: Δράσε Μαζί μας και Εξοικονόμησε Ενέργεια στο Σπίτι σου! (ACT4ECO: Join Us and Save Energy in your Home!)	http://370z.r.mailjet.com/nl2/8z48/57w4m.html?hl= en (greek) bit.ly/3sDPY9a (english) bit.ly/3tJdqTS (turkish)
Online Article	Business News	HEBES	20/05/2021	Article about the ACT4ECO platform and the ECO2project/Promo on the national policy event ΕΚΠΟΙΖΩ: Δράσε μαζί μας και εξοικονόμησε ενέργεια στο σπίτι σου μέσω της δυναμικής πλατφόρμας ACT4Eco (EKPIZO: Act with us and learn how to save energy in your home via the dynamic elearning platform ACTEco)	https://www.businessnews.gr/epixeiriseis/energeia/ item/209278-ekpoizo-drase-mazi-mas-kai- eksoikonomise-energeia-sto-spiti-sou-meso-tis- dynamikis-platformas-act4eco
Online Article	Forin.gr	HEBES	20/05/2021	Article about the ACT4ECO platform and the ECO2project/Promo on the national policy event Δράσε μαζί μας και εξοικονόμησε ενέργεια στο σπίτι σου μέσω της δυναμικής πλατφόρμας ACT4Eco (Act with us and learn how to save energy in your home via the dynamic elearning platform ACTEco)	https://www.forin.gr/articles/article/47960/ekpoizw -drase-mazi-mas-kai-eksoikonomhse-energeia-sto- spiti-sou-mesw-ths-dunamikhs-platformas-act4eco
Online Article	Thess Press	HEBES	20/05/2021	Article about the ACT4ECO platform and the ECO2project/Promo on the national policy event ΕΚΠΟΙΖΩ: Δράσε μαζί μας και εξοικονόμησε ενέργεια στο σπίτι σου μέσω της δυναμικής πλατφόρμας ACT4Eco (EKPIZO: Act with us and learn how to save energy in your home via the dynamic elearning platform ACTEco)	https://www.thesspress.gr/ekpoizo-drase-mazi-mas- kai-exoikonomise-energeia-sto-spiti-sou-meso-tis- dynamikis-platformas-act4eco/

Online Article	EnergyPress.g r	HEBES	20/05/2021	Article about the ACT4ECO platform and the ECO2project/Promo on the national policy event ΕΚΠΟΙΖΩ: Δράσε μαζί μας και εξοικονόμησε ενέργεια στο σπίτι σου μέσω της δυναμικής πλατφόρμας ACT4Eco (EKPIZO: Act with us and learn how to save energy in your home via the dynamic elearning platform ACTEco)	https://energypress.gr/news/ekpoizo-drase-mazi- mas-kai-exoikonomise-energeia-sto-spiti-soy-meso- tis-dynamikis-platformas
Newslette r online	In News	HEBES	20/05/2021	Newsletter about the ACT4ECO platform and the ECO2project/Cooperation between EKPIZO and ECO2project- HEBES EKΠΟΙΖΩ: Δράσε μαζί μας και εξοικονόμησε ενέργεια στο σπίτι σου μέσω της δυναμικής πλατφόρμας ACT4Eco (EKPIZO: Act with us and learn how to save energy in your home via the dynamic elearning platform ACTEco)	https://www.inewsgr.com/366/ekpoizo-drase-mazi- mas-kai-exoikonomise-energeia-sto-spiti-sou-meso- tis-dynamikis-platformas-ACT4Eco.htm
Newslette r online	EKATO blog spot (Hellenic Consumer Organization – Florina)	HEBES	21/05/2021	Newsletter about the ACT4ECO platform and the ECO2project/Cooperation between EKPIZO and ECO2project- HEBES EKΠΟΙΖΩ: Δράσε μαζί μας και εξοικονόμησε ενέργεια στο σπίτι σου μέσω της δυναμικής πλατφόρμας ACT4Eco (EKPIZO: Act with us and learn how to save energy in your home via the dynamic elearning platform ACTEco)	https://ekatoflorinas.blogspot.com/2021/05/20-5- 2021-act4eco.html
Online Article	e-mc2 Energy Matters to Climate Change	HEBES	21/05/2021	Article about the ACT4ECO platform and the ECO2project/Promo on the national policy event Δράσε μαζί μας και εξοικονόμησε ενέργεια στο σπίτι σου μέσω της δυναμικής πλατφόρμας ACT4Eco (Act with us and learn how to save energy in your home via the dynamic elearning platform ACTEco)	https://www.e-mc2.gr/el/news/drase-mazi-mas-kai- exoikonomise-energeia-sto-spiti-soy-meso-tis- dynamikis-platformas-act4eco
Online Article	Evia Portal	HEBES	26/05/2021	Article about the ACT4ECO platform and the ECO2project/Promo on the national policy event Απλές και ανέξοδες «έξυπνες» λύσεις για την αποδοτική διαχείριση της οικιακής ενέργειας, μέσω της πλατφόρμας ACT4Eco (Simple and cost-effective "smart" tips for the efficient home energy management, via the ACT4Eco platform)	https://eviaportal.gr/aples-aneksodes-eksypnes- lyseis-apodotiki-diacheirisi-oikiakis-energeias-meso- platformas-act4eco/

Newslette r online	EKATO blog spot (Hellenic Consumer Organization – Florina)	HEBES	03/06/2021	Promo on the national policy event Ημερίδα: Ο Δρόμος προς την Ενεργειακή Εξοικονόμηση: Προκλήσεις και Ευκαιρίες για τον "Έξυπνο" Καταναλωτή Ενέργειας (Online conference:The way towards Energy Efficiency: New Challenges and Opportunities for the "Smart" Energy Consumers)	https://ekatoflorinas.blogspot.com/2021/06/blog- post_58.html
Newslette r online	Energia.gr	HEBES	08/06/2021	Newsletter by EKPIZO promoting the ACT4ECO platform and the ECO2 project Ε.Κ.ΠΟΙ.ΖΩ: Πληθαίνουν οι Καταγγελίες Καταναλωτών για Αθέμιτες Πρακτικές των Εταιρειών Προμήθειας Ρεύματος (EKPIZO: Consumer Complaints for Unfair Practices of Electricity Supply Companies Are Increasing)	https://www.energia.gr/article/178413/ekpoizo- plhthainoyn-oi-kataggelies-katanaloton-gia- athemites-praktikes-ton-etaireion-promhtheias- reymatos
Online article	Palo.gr	HEBES	07/2021	Article about the ACT4ECO platform and the ECO2project/Promo on the national policy event	http://www.palo.gr/energeia/ekpoizw-drase-mazi- mas-kai-eksoikonomise-energeia-sto-spiti-soy-mesw- tis-dynamikis-platformas-act4eco/27518253/
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021		https://www.worldenergynews.gr/exoikonomw/arti cles/525514/ekpoizo-symperasmata-diadiktyakis- imeridas-gia-tin-energeiaki-eksoikonomisi
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021		https://energymag.gr/news/energeia/afxisi-ton- katangelion-stin-ekpoizo-schetika-me-ton-tomea- energeias/
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021		https://eretikos.gr/ilektriko-reyma-kataggelies-gia- foyskomenoys-logariasmoys-poy-prokaloyn- egkefalika/421473
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021		https://www.capital.gr/epikairotita/3553169/simant iki-auxisi-kataggelion-stin-ekpoizo-gia-ton-tomea- energeias

Online	National Policy Event- Briefs	HEBES	16- 17/06/2021	https://www.avgi.gr/oikonomia/389534_plithainoyn -oi-kataggelies-gia-foyskomenoys-logariasmoys
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021	https://www.sofokleousin.gr/ekpoizo-simantiki-ton- kataggeleion-gia-tin-energeia
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021	https://www.forin.gr/articles/article/48975/ekpoizw -shmantikh-aukshsh-emfanizoun-oi-kataggelies- sxetika-me-ton-tomea-energeias
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021	https://www.msn.com/el- gr/money/economy/%CF%83%CE%B7%CE%BC%CE% B1%CE%BD%CF%84%CE%B9%CE%BA%CE%AE- %CE%B1%CF%84D%CE%B9%CE%B7%CF%83%CE%B7- %CE%BA%CE%B1%CE%B9%CF%88%CE%B3 %CE%B5%CE%BB%CE%B9%CF%8E%CE%BD- %CF%83%CF%84%CE%B7%CE%BD- %CF%89-%CE%BA%CF%80%CE%BF%CE%B9%CE%B6 %CF%89-%CE%B3%CE%B9%CE%B1- %CF%84%CE%BF%CE%BD- %CF%84%CE%BF%CE%BC%CE%AD%CE%B1- %CE%B5%CE%BD%CE%AD%CF%81%CE%B3%CE%B5 %CE%B9%CE%B1%CF%82/ar-AAL62R3?li=BBqxHCu
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021	https://www.zougla.gr/money/agores/article/simant iki-afksisi-emfanizoun-i-katagelies-stin-ekpizo- sxetika-me-ton-tomea-energias
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021	https://www.inewsgr.com/484/ekpoizo-afxithikan- oi-katangelies-schetika-me-ton-tomea- energeias.htm
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021	https://marketbeast.gr/2021/06/simantiki-ayksisi- emfanizoyn-oi-kataggelies-stin-ekpoizw-sxetika-me- ton-tomea-energeias/
Online	National Policy Event- Briefs	HEBES	16- 17/06/2021	https://energypress.gr/news/simantiki-ayxisi- kataggelion-stin-ekpoizo-gia-ton-tomea-energeias

Online Online	National Policy Event- Briefs National Policy Event-	HEBES	16- 17/06/2021 16- 17/06/2021		https://www.thenewspaper.gr/2021/06/16/%cf%83 %ce%b7%ce%bc%ce%b1%ce%bd%cf%84%ce%b9%c e%ba%ce%ae- %ce%b1%cf%8d%ce%be%ce%b7%cf%83%ce%b7- %ce%b5%ce%bc%cf%86%ce%b1%ce%bd%ce%af%ce %b6%ce%bf%cf%85%ce%bd-%ce%bf%ce%b9- %ce%ba%ce%b1%cf%84%ce%b1%ce%b3/ https://www.kedenews.gr/eidiseis/345873_ekpoizo- plithos-kataggelion-apo-katanalotes-gia-tis-etairies-
	Briefs				energeias
Online Article	ΕΚΡΙΖΟ	HEBES	20/05/2021	ΕΚΠΟΙΖΩ: Δράσε μαζί μας και εξοικονόμησε ενέργεια στο σπίτι σου μέσω της δυναμικής πλατφόρμας ACT4Eco (EKPIZO: Act with us and learn how to save energy in your home via the dynamic elearning platform ACTEco)	https://www.ekpizo.gr/%CE%BF%CE%B9- %CE%B4%CF%81%CE%AC%CF%83%CE%B5%CE%B9 %CF%82- %CE%BC%CE%B1%CF%82/%CE%B5%CE%BD%CE%AD %CF%81%CE%B3%CE%B5%CE%B9%CE%B1- %CE%B5%CE%BA%CE%B4%CE%B7%CE%BB%CF%8E %CF%83%CE%B5%CE%B9%CF%82/%CE%B4%CF%81 %CE%AC%CF%83%CE%B5- %CE%BC%CE%B1%CE%B6%CE%AF- %CE%BC%CE%B1%CF%82- %CE%BA%CE%B1%CF%82- %CE%BA%CE%B1%CF%82- %CE%B5%CE%B1%CE%B9- %CE%B5%CE%B1%CE%B9- %CE%B5%CE%BB%CE%BF%CE%B9%CE%BA%CE%BF %CE%BD%CF%82%CE%BC%CE%B7%CF%83%CE%B5- %CE%B5%CE%BD%CE%AD%CF%81%CE%B3%CE%B5- %CE%B5%CE%B1-%CF%83%CF%84%CE%BF- %CF%83%CF%80%CE%AF%CF%84%CE%B9- %CF%83%CF%80%CE%AF%CF%84%CE%B9- %CF%83%CE%BF%CF%85- %CE%BC%CE%AD%CF%83%CF%89- %CF%84%CE%B7%CF%82
Online Article	ΕΚΡΙΖΟ	HEBES	16/06/2021	National Policy Event-Briefs	https://www.ekpizo.gr/%CE%BF%CE%B9- %CE%B4%CF%81%CE%AC%CF%83%CE%B5%CE%B9 %CF%82- %CE%BC%CE%B1%CF%82/%CE%B5%CE%BD%CE%AD %CF%81%CE%B3%CE%B5%CE%B9%CE%B1- %CE%B5%CE%BA%CE%B4%CE%B7%CE%BB%CF%8E %CF%83%CE%B5%CE%B9%CF%82/%CF%83%CF%85 %CE%BC%CF%80%CE%B5%CF%81%CE%AC%CF%83% CE%BC%CE%B1%CF%84%CE%B1- %CE%B4%CE%B9%CE%B1%CE%B4%CE%B9%CE%BA %CF%84%CF%85%CE%B1%CE%B4%CE%AE%CF%82- %CE%B7%CE%BC%CE%B5%CF%81%CE%AF%CE%B4

				%CE%B1%CF%82-%CE%B3%CE%B9%CE%B1- %CF%84%CE%B7%CE%BD- %CE%B5%CE%BD%CE%B5%CF%81%CE%B3%CE%B5 %CE%B9%CE%B1%CE%BA%CE%AE
Organizat ional Site	Cyprus Energy Forum (CEA)	HEBES	ACT4ECO platform subpage/link	https://www.cea.org.cy/act4eco/

# Appendix IV. Networks and scientific contacts

Date	Place	Interaction	Partner	Stakeholder	Online/ Face-to-face
6.11.2020	University of Helsinki, Faculty of Social Sciences	Consumption phenomena - lecture on Sustainable consumption -course. ACT4ECO platform used as a pre-assignment for the lecture	UH		
26.11.2020	University of Helsinki, Faculty of Social Sciences	Viewpoints to consumption research lecture course. ACT4ECO platform used as material for course assignment.	UH		
22.2.2021	Motiva energy awareness promotion development group	A dialogue on energy awareness promotion in a group of experts	UH	Motiva, Työtehoseura, SYKE, Kymenlaakson sähkö Oy	
27-03-2019	SEAI Energy Show, Dublin, Eire.	Dissemination about ECO2 and ACT4ECO. Networking with organisations in the field.	UCC	Representatives of varying organisations in the energy sector in Ireland.	Face-to-Face Event
20-05-2019	Gas Networks Ireland	Meeting with Representatives from this organisation and presentation on ECO2 and ACT4ECO.	UCC	Representatives of Gas Networks Ireland	Face-to-Face Event
29-05-2019	Face-to-face meeting with SEAI Organisation, Dublin, Eire.	Dialogue/Meeting with 18 representatives from the SEAI organisation, promoting and engaging potential partners for the ECO2 - ACT4ECO project.	UCC	Members of SEAI	Face-to-Face Event

19-06-2019	ENERCONF, Cork, Eire.	Participant at this conference for networking and dissemination of the ECO2 Project.	UCC	Various representatives from energy partners across Ireland.	Face-to-Face Event
05-11-2019	TA Conference, Bratislava, Slovakia. (Online)	Presentation of ECO2 Project Research.	UCC	Various representatives in this sector, from across Europe and beyond.	Online
06-11-2019	TA Conference, Bratislava, Slovakia. (Online)	Presentation of ECO2 Project Research.	UCC	Various representatives in this sector, from across Europe and beyond.	Online
07-11-2019	PSI Conference, Kilkenny, Eire.	Presentation of ECO2 Project Research.	UCC	Various representatives in this sector within Ireland.	Face-to-Face Event
22-11-2019	Pinergy	Meeting with Representatives from this organisation and presentation on ECO2 and ACT4ECO.	UCC	Representatives of Pinergy Ireland	Online
27-09-2019	ACT4ECO at Cork Discovers, UCC, Eire.	Outreach event promoting the work of ECO2 and ACT4ECO	UCC	Outreach to members of the public.	Face-to-Face Event
02-12-2019	Make IT Work Event, UCC, Cork.	Outreach event promoting the work of ECO2 and ACT4ECO	UCC	Outreach to 18-20 year olds	Face-to-Face Event
13-07-2020	Community Power	Meeting with Representatives from this organisation and presentation on ECO2 and ACT4ECO.	UCC	Representatives of Community Power	Online
31-08-2020	XD Consulting	Meeting with Representatives from this organisation and presentation on ECO2 and ACT4ECO.	UCC	Representatives of XD Consulting	Online
01-09-2020	Good Energies Alliance	Meeting with Representatives from this organisation and presentation on ECO2 and ACT4ECO.	UCC	Representatives of GEAI	Online
16-10-2020	The Wheel	Meeting with Representatives from this organisation and presentation on ECO2 and ACT4ECO.	UCC	Representatives of The Wheel	Online
26-11-2020	ACT4ECO at Cork Discovers, UCC, Eire.	Outreach event promoting the work of ECO2 and ACT4ECO	UCC	Outreach to members of the public.	Online

16-06-2020	ACT4ECO presentation to EU- funded ERASMUS+ Master programme 'Public Sector Innovation and EGovernance (PIONEER)'	Outreach event promoting the work of ECO2 and ACT4ECO	UCC	Various representatives in this sector, from across Europe and beyond.	Online
07-04-2021	ACT4ECO at Carberry Housing Association, Cork, Ireland.	Outreach event promoting the work of ECO2 and ACT4ECO	UCC	Representatives of CHA.	Online
14-06-2021	European Conference on Information Systems 2021 (online)	Open E-Learning Platforms And The Design-Reality Gap: Exploring The Impact Of User-Perceived Functional Affordances. UCC & UH	UCC	Various representatives in this sector, from across Europe and beyond.	Online
26-04-2021	A webinar on energy poverty organised by Active Consumers Bulgaria	A short presentation of the ECO2 project and its results - consumer segmentation analysis (incl. energy poverty) and ACT4ECO	ARC Fund	Active Consumers Bulgaria	Online
04-06-2021	Online seminar in Zoom	Presentation of the ECO2 project and ACT4ECO platform during the ECO2 national policy outreach seminar in Bulgaria. Participants – energy relevant stakeholders.	ARC Fund	Sofia Energy Agency, Active Consumers	Online
19-07-2021	Online seminar in Zoom	Presentation of the ECO2 project and ACT4ECO platform during the first ECO2 EU-level policy outreach seminar. Participants – energy relevant stakeholders.	ARC Fund	Danish Board of Technology and HEBES (ECO2 partners)	Online
18-05-2021	High School "Istituto Tecnico Industriale Marconi" - Forlì	"Environment protection and energy saving: the role of younger generations"Presentation of ECO2 Project and testing of ACT4ECO platform	SINERGIE	Associazione Nuova Civiltà delle Macchine   Target: high school students	Online
04-05-2021	High School "Istituto Tecnico Industriale Marconi" - Forlì	"Environment protection and energy saving: the role of younger generations"Presentation of ECO2 Project and testing of ACT4ECO platform	SINERGIE	Associazione Nuova Civiltà delle Macchine   Target: high school students	Online

30-04-2021	High School "Liceo Classico Dante Aligheri" - Ravenna	"Environment protection and energy saving: the role of younger generations"Presentation of ECO2 Project and testing of ACT4ECO platform	SINERGIE	Associazione Nuova Civiltà delle Macchine   Target: high school students	Online
23-04-2021	High School "Liceo Scientifico Fulcieri" - Forlì	"Environment protection and energy saving: the role of younger generations"Presentation of ECO2 Project and testing of ACT4ECO platform	SINERGIE	Associazione Nuova Civiltà delle Macchine   Target: high school students	Online
22-04-2021	High School "Liceo Scientifico Fulcieri" - Forlì	"Environment protection and energy saving: the role of younger generations"Presentation of ECO2 Project and testing of ACT4ECO platform	SINERGIE	Associazione Nuova Civiltà delle Macchine   Target: high school students	Online
17-04-2021	High School "Liceo Scientifico Fulcieri" - Forlì	"Environment protection and energy saving: the role of younger generations"Presentation of ECO2 Project and testing of ACT4ECO platform	SINERGIE	Associazione Nuova Civiltà delle Macchine   Target: high school students	Online
16-04-2021	High School "Liceo Scientifico Fulcieri" - Forlì	"Environment protection and energy saving: the role of younger generations"Presentation of ECO2 Project and testing of ACT4ECO platform	SINERGIE	Associazione Nuova Civiltà delle Macchine   Target: high school students	Online
30-09-2020	Facebook live streaming	A webinar with two roundtables, aimed at making participants aware of the importance of a conscious behaviour in terms of energy efficiency - "Energy efficiency and fight against waste: how to become conscious consumers?"	SINERGIE	Active Citizenship Network   Target: citizens and energy consumers	Online
26-09-2020	Headquarters of Cavazzoni Associati (Reggio Emilia)	A private event on tax benefits for all Italian citizens interested in doing retrofitting and energy efficiency interventions in their households. Among the various topics tackled, there was also the importance of an adequate training for energy consumers, and ACT4ECO was mentioned as a best practice.	SINERGIE	Target: citiezens, energy efficiency experts, energy managers, building managers	Face to face event
20-02-2020	Sinergie headquarters	Piloting activities carried out to test ACT4ECO usability and verify the fairness of the content	SINERGIE	Target: potential users ofACT4ECOplaform,energy consumers	Face to face event

15-07-2019	Sinergie headquarters	ACT4ECO platform was shown as an e-learning training tool, while ECO2 project was presented as an example to make participants understand the difference between Communication, Dissemination and Exploitation in EU projects	SINERGIE	Target: participants in the training course "Manager of Training Projects", organised by Sinergie	Face to face training
06- 07/03/2019	Global Industrie exhibition (Lyon - France)	Sinergie took part in networking R2B activities in the context of Global Industrie in Lyon. ECO2 project was presented	SINERGIE	Other researchers, EU project managers, potential stakeholders in the industrial sector	Participation in multiple R2B sessions
27-09-2018	ENEA headquarters - Rome (Italy)	Sinergie took part in the roundtable on the occasion of the workshop "News and incentives for energy efficiency: national tools and local actions", organised by RENAEL and ENEA	SINERGIE	Energy stakeholders belonging to the network of RENAEL (Italian network of energy agencies) and ENEA (National agency for new technologies, energy and sustainable economic development)	Face to face event (workshop)
04-05-2020	Motiva chief of communications (Leila Timonen)	A request to post an advertisment of the event "Pelit, testit ja suora palaute: Miten kuluttajien energiakäyttäytymiseen voidaan vaikuttaa?" -event to the networks	UH	Motiva energy advisors network	Contacting through e- mail
04-05-2020	HELSUS (Ville-Pekka Niskanen)	A request to post an advertisment of the event "Pelit, testit ja suora palaute: Miten kuluttajien energiakäyttäytymiseen voidaan vaikuttaa?" -event to HELSUS mailing list	UH	HELSUS - sustainability researcher's network	Contacting through e- mail
13-10-2020	La Cambre University	ECO2 project presentation and workshop	SDS	A group of 25 university students	Face-to-face
06-06-2019	Bruxelles Environnement	Took part to network in an event organized by Bruxelles Environnement, regional administration for the environnement - Event: Prix belge de l'Energie et de l'Environnement 2019	SDS	Around 40 participants	Face-to-face
03-07-2020	Test-Achats / Belgian Consumer organization group	Meeting to discuss collaboration opportunities with Belgian Consumler Organiszation	SDS	Philipe Mercier	Online

29-07-2020	PARENT project / Sister project	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	SDS	Trisha Meyer	Online
28-08-2020	Homegrade	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	SDS	Geneviève Balasse	Online
21-10-2020	ECOBUILD	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	SDS	Quentin Laffineur and Malfeyt Emmanuel	Online
16-12-2020	SOLTIS	Presentation of ECO2 project and interview	SDS	Philipe Rocher and Chritophe Jonlet	Face-to-face
23-12-2020	Homegrade	Presentation of ECO2 project and interview	SDS	Jérôme Bertrand,	Face-to-face
12-01-2020	Municipality of Watermael Boitsfort	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	SDS	Lionel Panneel	Online
13-01-2021	Municipality of Uccle	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	SDS	Maëlle de Brouwer	Online
11-03-2021	Réseau et habitat	ECO2 project presentation and networking to find future collaborators	SDS	Réseau et habitot network of 10 NGOs/Organizations	Online
18-03-2021	WeSmart	Presentation of ECO2 project and interview	SDS	Boniface Nteziyaremye	Face-to-face
03 & 04-06- 2021	ECO2 Design Jam	Design Jam Workshop	SDS	20 participants in total	Face to face event (workshop)
17-06-2021	ECO2 Policy Seminar	E-WORKSHOP – Tackling Behavioral Change in Energy Consumption through Policy Measures	SDS	A mix of stakeholders from different fields	Online
17-06-2021	ECOBUILD Event Dissemination	https://ecobuild.brussels/evenements/e-workshop-tackling- behavioral-change-in-energy-consumption-through-policy-measures/	SDS	Dissemination of event	Online
24/06/2020	American College of Greece	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Representatives of the Training Department and Energy Security Department	Face-to-face
24/07/2020	EDATHESS (energy provider)	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Representatives of the Business Development Department	Online

14/10/2020	Athens University of Economics and Business/Research Laboratory on Socio-Economic and Environmental Sustainability	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Prof. Ph. Koundouri and members of the research team	Online
23/11/2020	Fysiko Aerio Attikis	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Mr. Aristidis Grammatikopoulos, Mr. Panagiotis Kontogiorgos and representatives of the Training Department and the EU Projects Implementation Department	Online
07/12/2020	"SAVES 2" EU project- Technical University of Crete (TUC) – University of Athens	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Mr. Stelios Diakrousis and Mr. Vassileios Ntouros	Online
21/12/2020	Watt & Volt	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	10 representatives of the Training Department and Business Development Department	Face-to-face
15/01/2021	Junior Achievement Greece	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Mrs Marianthi Karantza, COO	Online
01/02/2021	Knowledge Bridges Networking Group	FB Webinar on Energy Habits – Invitation to present briefly the ECO2 project and the ACT4ECO platform	HEBES	Target Group: 18-20 Years Old University Students Person in charge: Mr Dimitris Maragkos	Online
15/01/2021	Saves 2 (EU project) webinar "Hidden Energy Poverty: The students perspectives"	A brief presentation of ECO2 project and ACT4ECO platform	HEBES	SHs invited by the SAVES 2 project and consortium members	Online
04/02/2021	Junior Achievement Greece	Outreach event presenting the ECO2 project and the ACT4ECO platform	HEBES	Target Group: High School Students Person in charge: Mrs Marianthi Karantza	Online

25/02/2021	Energy Community Epirus Webinar	FB Webinar on Energy Communities – Brief presentation of the ECO2 project and the ACT4ECO platform	HEBES	Various SHs- representatives invited by the organizer. Person in charge: Mr. Dimitris Kitsikopoulos	Online
16/03/2021	Municipality of Athens	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Representatives of the EU Projects Implementation Department	Online
16/03/2021	Municipality of Thessaly	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Representatives of the EU Projects Implementation Department	Online
17/03/2021	CRES- Center for Renewable Resources and Savings	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Mr Christos Tourkolias, Associate of the Department of Energy Policy Analysis of the Directorate of Energy Policy and Planning (DEPS) Mrs Elena Taxeri, Associate of the Department of Energy Policy Analysis of the Directorate of Energy Policy and Planning (DEPS) - Member of the working group of EnR (European Energy Network)	Online
19/03/2021	Municipality of Zografou (Attica)	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Representatives of the EU Projects Implementation Department	Online
26/03/2021	CEA-Cyprus Energy Agency	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Mr. Stelios Kyprou, Mr. Andreas Pastides, Mrs Soula Karra- Representatives of the EU Projects	Online

				Implementation Department	
01/04/2021	EKPIZO-Consumers Association	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Mrs Panayiota Kalapotharakou, Vice President, Mrs Vicky Tzegka, Attroney at Law, Mrs Anna Michalopoulou, Communications Officer	Online
05/05/2021	FEGIME	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Mr David Garrat and 3 representatives of the Training Department and Business Development Department	Online
07/06/2021	ECO2 National Policy Outreach Seminar	Presentation of the ECO2 project and the ACT4ECO platform	HEBES	Target Group: Energy relevant SHs and individual consumers	Online
08/06/2021	National Observatory of Athens - Institute of Environmental Research and Sustainable Development	Meeting to discuss about ECO2 project, share experiences and look for collaboration opportunities	HEBES	Dr. Dr. Konstantinos Balaras, Research Director in the areas of RES, energy conservation, building energy audits and building retrofitting. Leader of Group Energy Conservation in IERSD at NOA	Online