



# **Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects**

## **Deliverable 7.8: Communication Material and Media Coverage (2<sup>nd</sup> edition)**

May 2022



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Enhancing at an Early Stage the Investment  
Value Chain of Energy Efficiency Projects

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## Preface













Triple-A has a very practical result-oriented approach, seeking to provide reliable information answering on three questions:

- How to **assess** the financing instruments and risks at an early stage?
- How to **agree** on the Triple-A investments, based on selected key performance indicators?
- How to **assign** the identified investment ideas with possible financing schemes?

The Triple-A scheme comprises three critical steps:

- **Step 1 - Assess:** Based on Member States (MS) risk profiles and mitigation policies, including a Web-based database, enabling national and sectoral comparability, market maturity identification, good practices experiences exchange, reducing thus uncertainty for investors.
- **Step 2 - Agree:** Based on standardised Triple-A tools, efficient benchmarks, and guidelines, translated in consortium partners' languages, accelerating and scaling up investments.
- **Step 3 - Assign:** Based on in-country demonstrations, replicability and overall exploitation, including recommendations on realistic and feasible investments in the national and sectoral context, as well as on short and medium-term financing.

## Who We Are

	Participant Name	Short Name	Country Code	Logo
1	National Technical University of Athens	NTUA	GR	
2	ABN AMRO Bank N.V.	ABN AMRO	NL	
3	Institute for European Energy and Climate Policy Stichting	IEECP	NL	
4	JRC Capital Management Consultancy & Research GmbH	JRC	DE	
5	GFT Italy srl	GFT Italy	IT	
6	CREARA Consulting SL	CREARA	ES	
7	Adelphi Research Gemeinnützige GMBH	adelphi	DE	
8	Piraeus Bank SA	PB	GR	
9	University of Piraeus Research Center	UPRC	GR	
10	SEVEn, The Energy Efficiency Center	SEVEn	CZ	
11	Public Investment Development Agency	VIPA	LT	
12	National Trust Ecofund	NTEF	BG	





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## Table of Contents

<b>1</b>	<b>Introduction.....</b>	<b>1</b>
<b>2</b>	<b>Triple-A in Numbers .....</b>	<b>2</b>
<b>3</b>	<b>Communication Assets.....</b>	<b>5</b>
<b>4</b>	<b>Conclusions .....</b>	<b>37</b>

## Tables

Table 1: Triple-A Portfolio of Communication Material.....	3
--	---

## Figures

Figure 1 Stakeholders Categories Reached within Triple-A .....	2
Figure 2 Triple-A Web-based Database on EE Financing - Logo .....	5
Figure 3 Triple-A Tools logos .....	6
Figure 4 Triple-A Sectors logos .....	6
Figure 5 Triple-A X-mas logo.....	6
Figure 6 Triple-A signature .....	7
Figure 7 Triple-A website.....	7
Figure 8 Triple-A Tools website.....	8
Figure 9 Triple-A Database screenshots .....	9
Figure 10 “Triple-A at a glance” brochures.....	11
Figure 11 Triple-A Tools and Database brochure .....	11
Figure 12 Triple-A Templates .....	12
Figure 13 Triple-A Newsletter, Issue December 2020 .....	14
Figure 14 Triple-A Newsletter, Issue June 2021 .....	14
Figure 15 Triple-A Newsletter, Issue May 2022 .....	14
Figure 16 Other related newsletters .....	16
Figure 17 Triple-A Articles in Relevant Media .....	18
Figure 18 Triple-A Press Releases .....	22
Figure 19 Triple-A Zenodo Publications .....	23
Figure 20 Triple-A Social Media Accounts .....	24
Figure 21 Triple-A Factsheets .....	25
Figure 22 Triple-A video at the 8 <sup>th</sup> ICDSST 2022.....	26
Figure 23 Triple-A video with Overview and Key Results .....	26
Figure 24 Triple-A video at EMCEI-2021 .....	27
Figure 25 Triple-A Event at EUSEW 2021 .....	27
Figure 26 Triple-A Regional Training Workshops .....	28
Figure 27 Triple-A Capacity Building Webinars.....	28
Figure 28 Triple-A Tools User Manual .....	29
Figure 29 INFINITECH & Triple-A Webinar: Event Recording .....	29

Figure 30 Triple-A Final European Roadshow: Event Recording .....	30
Figure 31 Triple-A in Numbers Infographic .....	31
Figure 32 Triple-A Database Infographic .....	32
Figure 33 Poster in the 8 <sup>th</sup> International Conference on Decision Support System Technology .....	32
Figure 34 Triple-A Banners for the Capacity Building Webinars and Regional Training Workshops ...	33
Figure 35 Triple-A Banners for the speakers of the Final European Roadshow.....	34
Figure 36 Triple-A QR Codes .....	35
Figure 37 Triple-A Christmas Card.....	35

## Executive Summary

During the project duration, the deployed communication means allowed stakeholders to participate in the Triple-A activities and provide input and feedback on the Triple-A outcomes. Evidence of this is found in the number of the **3,386** stakeholders involved through the various efforts. More particularly, over **557** stakeholders have been identified and contacted within the framework of stakeholder consultation activities (bilateral meetings, teleconferences, questionnaires, etc.), gathering valuable feedback on Triple-A outcomes (Triple-A methodology, Standardised Triple-A Tools, etc.). With regards to media coverage, Triple-A has **961** followers on Triple-A social media accounts (Twitter, LinkedIn, Instagram) that have collected **232,281** impression in Twitter, **97,184** in LinkedIn, and **8,232** in Instagram. In addition to that, **1,101** views have been recorded from the **23** Triple-A videos uploaded on the Triple-A YouTube channel. In general, and according to Google Analytics, Triple-A has up to October 2020, **10,352** sessions with **9,115** users, **16,164** page views, and **9,083** unique visitors. There are also **101** references to the Triple-A project through related websites.

It should be noted that due to the COVID-19 pandemic crisis and the restrictions posed by all countries for events cancellation and travelling, there was no possibility to distribute Triple-A brochures and leaflets significantly. However, Triple-A partners intensified activities via social media and created communication means that were not foreseen to be deployed, such as videos, infographics, and banners, which facilitated effective communication of projects' results despite the pandemic crisis circumstances.

# 1 Introduction

Efficient communication is a fundamental activity in any process since the success of the communication and dissemination activities contributes decisively to the utilisation of Triple-A outcomes by all interested actors and target groups. Therefore, careful planning of dissemination activities was of utmost importance from the beginning of the project.

The Triple-A communication strategy has contributed to a continuous exchange of information and established opportunities for further exploitation and cooperation among interested parties. The scope is to define and execute a multi-channel plan to carry out diverse and novel activities and address challenging issues that arise. Communication material has been prepared in order to enable a profitable two-way exchange of information and experiences with stakeholders and, consequently, lay the foundation for building investors' and financiers' confidence regarding the financing of energy efficiency projects.

The main priority of the Triple-A communication package was to disseminate acquired knowledge on an ongoing basis and communicate it to a wide range of interested parties and targeted groups of beneficiaries. A range of activities and measures have been developed and will be explored further after the project ends. The ultimate goal is to deliver appropriate content to key stakeholders by raising awareness on critical issues that Triple-A addresses while at the same time disseminating project results.

The communication activities of the project results take several forms and use a variety of media. Communication actions use language that is non-technical and digestible to suit a broader audience. Interested parties need to know what has been achieved and why it is essential. It is even possible that the same messages can be used for dissemination to different audiences, but in such cases, the language should be adapted for each audience. However, the goal of the message is similar; communication material and media coverage tools differ in the message that is promoted to the targeted audience.

This report presents the communication assets that were created and used by the consortium partners and provides a list of the communication materials. The materials were produced in accordance to brand coherence and ensure that the communication and dissemination aligns with the overall visual identity of the project.

This document is the 2<sup>nd</sup> version of the deliverable on Triple-A Communication Material and Media Coverage and reports the portfolio of communication material created from M15 (November 2020) until the end of the project (May 2022). Deliverable *D7.8: Communication Material and Media Coverage (2<sup>nd</sup> edition)* describes all the communication means, including promotional brochures, factsheets, posters, press releases, and articles in EU and national media.

The report has two sections: (1) a description of Triple-A's communication material in numbers and (2) a presentation of the Triple-A information and communication packages.

## 2 Triple-A in Numbers

The objective for all communication material within Triple-A was to reach and enable as many as possible targeted stakeholders who can benefit from the project outcomes, enabling their active participation. During the implementation, various channels were used to disseminate and timely publish the key messages and findings as well as its progress to stakeholders. At the same time, experiences and expertise were exchanged with the targeted audiences.

The stakeholder groups targeted include the following categories:

A - Financing bodies

B - Companies / Project developers

C - Policy makers and Policy support Institutes

D - Researchers and Academia in Business and Techno – economic fields

E - Other

Triple-A consultation activities have reached **3,386** stakeholders through newsletters, events, consultations, emails, webinars, workshops, and bilateral meetings. Their participation and engagement were further enhanced due to their involvement in several popular and very successful stakeholder consultation events (Capacity Building Webinars, Regional Training Workshops, Final European Roadshow) and the use of the Tools and Database.

The figure below displays the estimated proportions of persons reached, in the context of all dissemination and communication activities, in each of the following categories.

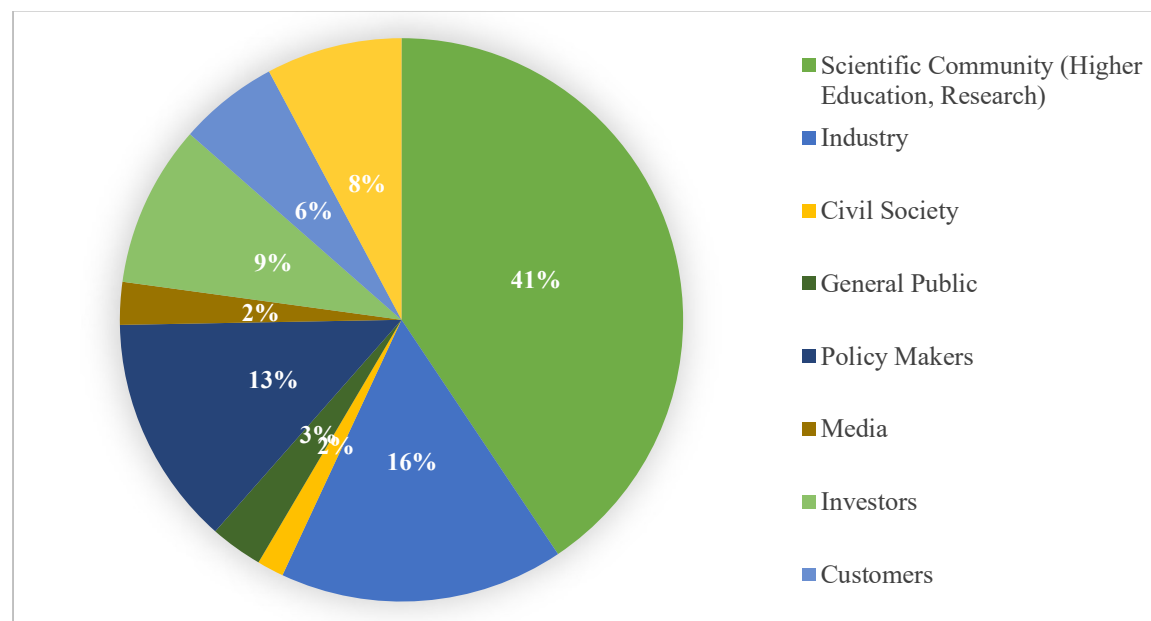






Figure 1 Stakeholders Categories Reached within Triple-A

Throughout the projects' duration, a substantial number of dissemination material (newsletters, press releases, brochures, articles, websites, banners, videos, etc.) have been developed and uploaded to the project website. The stakeholders' active engagement has ensured high visibility for the project.



The key information and promotional material that has been developed and published by May 2022 is listed in the following table (Table 1).

Table 1: Triple-A Portfolio of Communication Material

Communication Material		Status - May 2022
<b>Project Identity</b>		12 items (logos, signature)
<b>Graphic Guidelines</b>		✓
<b>Websites</b>	<b>Official Triple-A website</b>	25382.00 Users, 62398.00 Pageviews
	<b>Standardised Triple-A Tools</b>	1603 Users (170 subscribed) , 7,339 Unique pageviews
	<b>Web-based Database on Energy Efficiency Financing</b>	1,239 Users , 3,496 Unique pageviews
<b>Promotional Brochure / Leaflet</b>		13
<b>Templates / Presentation</b>		✓ 6 (in total)
<b>Triple-A Newsletters</b>		7
<b>Triple-A Press Releases</b>		22
<b>Non-consortium Newsletters</b>		21
<b>Triple-A Articles in relevant webpages</b>		27
<b>Digital Platforms</b>		<p>Pre-prints from <b>15</b> Triple-A publications have been uploaded in Zenodo so as to ensure Gold Open Access. The Triple-A publications have gathered <b>278</b> views and <b>250</b> downloads.</p> <p><b>89</b> reports and communication material have been uploaded in total to the various platforms (<b>20</b> in EnergyPedia, <b>8</b> in Research Gate, <b>15</b> in Zenodo, <b>46</b> in Capacity4dev)</p>
<b>Social Networks</b>		<b>374</b> Followers, <b>54,583</b> Post Impressions from the official account and <b>42,601</b> from project partners' account.
		<b>155</b> Followers, <b>8,232</b> Impressions
		<b>23</b> Videos, <b>1,101</b> Views
		<b>416</b> Followers, 208,039 Impressions from the official account and <b>24,242</b> from project partners' account.
<b>Factsheets</b>		<b>13</b>

Communication Material	Status - May 2022
<b>Banners</b>	<b>47</b>
<b>QR Codes</b>	<b>26</b>
<b>Videos</b>	<b>23</b>
<b>Infographics</b>	<b>4</b>
<b>Posters</b>	<b>6</b>
<b>Special Issue/ Publications</b>	<b>21</b> scientific publications in Conferences & Journals

### 3 Communication Assets

Various printed and online communication tools have been developed and published to target groups of stakeholders through the official website and partners' websites. Specifically, communication tools and media coverage include dedicated websites, articles, banners, posters, newsletters and press releases, social media, distribution of the material in external events.

The following subsections present and describe the Triple-A information and communication materials designed and developed in the period November 2020 (M15) until end of May 2022 (M33).

#### Triple-A Identity

Apart from the Triple-A logo and the accompanying chromatic palette that was designed in the beginning of the project and is of great importance since it establishes the project's visual identity and supports "brand recognition", several logos were also designed to promote Triple-A online outputs, such as:

- Logo for the Triple-A Web-based Database on EE Financing
- Logos for the three Triple-A Tools "Assess", "Agree", "Assign", and
- Logos for the sectors that are covered by the Triple-A Tools (Buildings, Outdoor Lighting, Transport, District Heating and Cooling, Manufacturing).
- Christmas logo

Graphic Guidelines regarding the use of the logo and the visual identity have also been provided via the report *D7.1 Identity Guidelines* that was submitted by NTUA at the end of September 2019.

See the analytical activities of M1 (September 2019) - M15 (November 2020) in D7.7 Communication Material and Media Coverage (1<sup>st</sup> edition).

#### *Triple-A Web-based Database on EE Financing*



Figure 2 Triple-A Web-based Database on EE Financing - Logo

### Triple-A Tools



Figure 3 Triple-A Tools logos

### Triple-A Sectors



Figure 4 Triple-A Sectors logos

### Triple-A Christmas Logo



Figure 5 Triple-A X-mas logo

### Triple-A Signature

Email signatures are an essential part of the digital brand. NTUA created the Triple-A email signatures, where each partner just had to edit their personal information, copy and paste it into their email software and introduce the logo as an image.

Example of the project partners email signature provided below: including the social media handles, and links to key project materials such as the tools and website

First Name Last Name | Partner's company name

Role in Triple-A project (e.g., Triple-A Project Coordinator, Triple-A Communication and Dissemination Leader)

Email: XXX@XXX.XXX

Website  
aaa-h2020.eu

Tools  
toolbox.aaa-h2020.eu

Figure 6 Triple-A signature

## Triple-A Website

The Triple-A website (<https://aaa-h2020.eu/>) presents the project's results and is a referenced site containing useful promotional material as well as relevant information packages and useful links related to energy efficiency investments and financing. It includes all the project information, such as title, logo, brief description, objectives, methodology, work structure, expected contribution, consortium members, as well as project outputs, such as Web-based Database on Energy Efficiency Financing, Standardised Triple-A Toolbox, deliverable, dissemination material, social media.

The website has undergone many changes in terms of structure and content. The content has been constantly updated, mainly in pages that included news, events, publications and dissemination and communication material. More particularly, the pages "Capacity Building Webinars" and "Regional Training Workshops", although already designed and public, were updated with analytical content (description, videos, banners) based on the outcomes of the events organised under these categories. New "Triple-A Events" have been added, including the "Final European Roadshow". The "Library" page includes all the project publications, such as deliverables, articles, briefing notes and scientific studies, while a new page was added that consists of the "Tools Guidelines" in English and translated into the 8 Triple-A case study countries' languages. With regards to the "Communication" page, new sub-pages were created, such as "Infographics" and "Videos", to better organise the production of dissemination and communication materials realised over the final year.

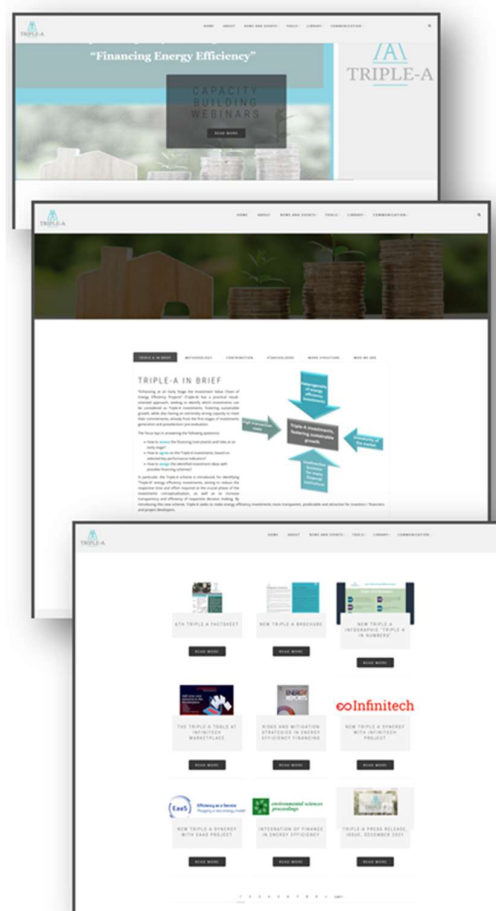


Figure 7 Triple-A website

Up to May 2022, the website had **62398.00** page views from **25,076** unique visitors (target 12,500 visitors), while the Triple-A reports have been downloaded **949** times.

## Standardised Triple-A Tools

The Triple-A Standardised Tools are a web-based application that provides information on Triple-A investments' identification and financing.

The Triple-A Tools are accessible through the Standardised Toolbox Platform<sup>1</sup>, which can be reached through the direct link or the Triple-A webpage<sup>2</sup>.

The Standardised Triple-A Tools host site has a large number of pages, which incorporates informative material, user guidelines, and the application itself. The Toolbox includes three tools, the Assess Tool, the Agree Tool, and the Assign Tool. Except the Toolbox's main homepage each Tool has its own homepage, in which the user is guided on how to start using the Tool effortlessly. The Tools homepage requires registration to provide personalised functionalities, results, and databases linked to each user, based on the user's input, as well as for security, privacy reasons. Once registered, users can access the interfaces of the Tools web application, including the database of inserted projects, perform benchmarking of their own projects, view their personalised list of projects, download .pdf and .xls reports, view detailed profiles of other users, aggregate projects and design innovative financing schemes, receive personalised financing proposal for their projects, and much more.

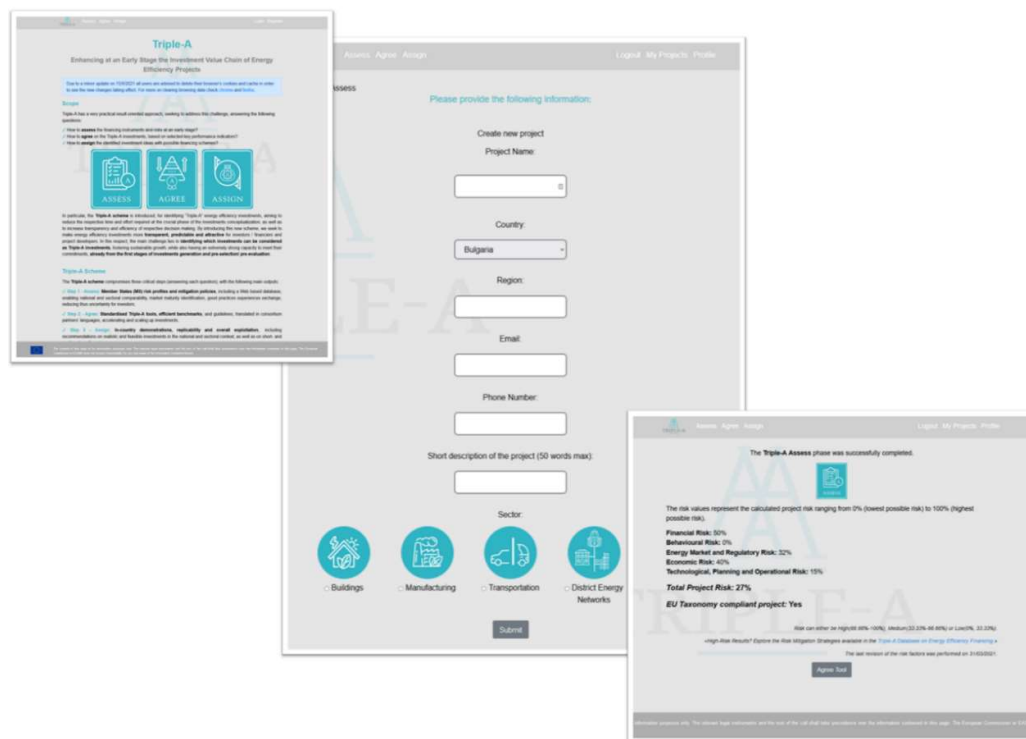


Figure 8 Triple-A Tools website

In addition, the Standardised Triple-A Tools page includes links to the project's Deliverables, User Manuals, and the dedicated instructional video, which is available in both English and Greek audio and contains subtitles in 8 languages (English, Greek, Lithuanian, Czech, Dutch, Spanish, Bulgarian

<sup>1</sup> <http://toolbox.aaa-h2020.eu/>

<sup>2</sup> <https://aaa-h2020.eu/tools/>

and Italian). The video<sup>3</sup> acts as a user manual, including the steps that need to be followed to insert a project and be evaluated through the Tools, as well as for the matchmaking process (Tools with financing instrument) to be realised.

**1,603** users have visited the Triple-A Tools page with **7,339** unique pageviews. **170** users have signed up, created an account and utilised the online platform. Feedback on the Tools has been received from **195** stakeholders since a dedicated section on the Tools' functionalities, and usefulness was included in three separate stakeholder questionnaires. In total, **170** projects have been assessed by the Assess Tool, while **119** have been inserted into the Triple-A Agree Tool, as provided by partners and stakeholders.

### *Triple-A Database on Energy Efficiency Financing*

The Triple-A Database on Energy Efficiency Financing is an online interactive application that incorporates the results from the status quo analysis and the elaboration/categorisation of the financing instruments and risk mitigation strategies within the framework of the Triple-A project and the Triple-A methodology. Thus, this knowledge database offers a cross-country analysis, including interactive maps and graphs.

The Web-Based Database can be accessed through the main website and found under the "Tools" section on the main navigation pane<sup>4</sup> or through the direct link<sup>5</sup>. The database does not require any registration or log-in to be accessed. The website includes data on risks and uncertainty factors that might reduce the profitability of investments and endanger efficiency projects' debt repayment, as they have been identified and categorised in the Triple-A risk assessment methodology. The data is visualised by interactive graphs, maps, tables and menus, while excel (.xls(x)) reports of the data are also available for download.



**Figure 9 Triple-A Database screenshots**

The Triple-A Database on Energy Efficiency Financing has been visited by **1,239** users with **3,496** unique pageviews, while the **211** found helpful information and downloaded the excel (.xls(x)) reports.

<sup>3</sup> <https://www.youtube.com/watch?v=wd1XG4k6uyk&t=15s>

<sup>4</sup> <https://aaa-h2020.eu/database>

<sup>5</sup> <https://database.aaa-h2020.eu/>

## Triple-A Promotional Brochure / Leaflet

Two 3-fold brochures have been created giving readers general information about the project, such as the project's contact details, the consortium, the objectives, the "Assess-Agree-Assign" concept, and what each step consists of, how a Triple-A investment is defined, and finally, the 8 case studies (Germany, The Netherlands, Greece, Italy, Spain, Lithuania, Czech Republic, Republic of Bulgaria) and their strategic selection. In addition, one Triple-A Leaflet in Czech was also developed by consortium partner SEVEN.

One more brochure titled "Triple-A at a Glance" was designed and translated into the eight (8) Triple-A case study countries' languages highlighting the practical approach, partners info and social media details.

Another brochure was developed by SEVEN and NTUA that focuses on the Triple-A Tools and Database and their benefits for the different target groups.

**167** copies have been distributed in several events. It is worth mentioning that it is foreseen by the description of the action that 1,000 copies of the brochure would be distributed; however, this target seems difficult to be reached due to the COVID-19 situation more or less forcing all planned events to be organised online or at least in a hybrid format up until the project's end. In addition, it is worth mention that the online distribution of the brochures is a more environmentally friendly solution having a similar impact, not even better, since the online document are easily reached and saved rather than a printed version. However, although the target of the 1,000 copies was not reached, the promotion of the brochures in social media thought dedicated posts have reached **5,681** people (impressions), measuring **130** clicks (engagement) in Twitter and LinkedIn. In addition, the dedicated dissemination webpage in the Triple-A site counts **734** pageviews.

### Triple-A at a Glance<sup>6</sup>



<sup>6</sup> [https://aaa-h2020.eu/sites/default/files/reports/Triple-A%20at%20a%20Glance\\_EN.pdf](https://aaa-h2020.eu/sites/default/files/reports/Triple-A%20at%20a%20Glance_EN.pdf)





Figure 10 “Triple-A at a glance” brochures

## Triple-A Tools & Database<sup>7</sup>



### Finding Triple-A investments

**Energy saving projects** represent an attractive investment opportunity. Based on proven technologies, they offer predictable life cycle and reliable payback periods. However, energy efficiency (EE) business comprises many technical branches which makes energy efficiency projects comprehensive and sometimes difficult to assess.

**Triple-A Toolbox** is an on-line based instrument for risk assessment of energy efficiency projects. The Toolbox quantifies, in the first step, the feasibility, risk, profitability and sustainability of an early stage project based on the basic parameters and the country of implementation. Investors may then choose feasible projects and match them by **financial proposals** of various kinds and parameters.

The key elements of the Triple-A Tools that pave the way for identifying and financing Triple-A investments and materialising the Triple-A approach are the following:

**Assess:** Project ideas are checked for **EU Taxonomy** Guidelines compliance, and then evaluated according to their perceived **risk profile** and **factors**.

**Agree:** It **benchmarks** the predicted performance of the EE project idea taking advantage of the various existing or new **EPs**, including **financial indicators**, **risk assessment results**, **SDG criteria** to identify the “Triple-A investments”.

**Assign:** If it matches the benchmarked projects with **financing institutions** looking to invest in green EE projects. It supports **innovative financing schemes**, such as Green Loans and Mortgages, Green Bonds, Energy Efficiency Auctions, while it fosters the financing of small-scale projects.



The Triple-A project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 844569

### Triple-A Database

The most important aspects of energy efficiency financing are visually represented in the **Triple-A Interactive Web-based Database**. It includes details that could endanger the successful implementation of an energy efficiency project, the strategies that could mitigate these risks, the preferences of investors on energy efficiency investments, the financial performance of energy efficiency projects, the models and instruments that are usually used to finance energy efficiency projects and the performance of some pilot countries in terms of Sustainable Development Goals.

### Triple-A Tools users – who is it for?

**Investors** use Triple-A Tools to search for high quality **energy efficiency investment opportunities**. Investors may offer financing to match selected projects. Peculiarities of energy efficiency projects are tackled by the tools and presented in project assessment efficiently.

**Project developers** use Triple-A Tools for assessing financial and regulatory feasibility of their projects. The projects are checked against the EU Taxonomy and regulatory and technical risks.

**Governmental institutions** use Triple-A Tools to focus the public support and quick scan of project eligibility in addition to existing tools and methodologies.

**Academia** uses Triple-A Tools in a teaching process to explain complexity of energy efficiency projects evaluation and show risk assessment methods.



Figure 11 Triple-A Tools and Database brochure

<sup>7</sup> [https://aaa-h2020.eu/sites/default/files/reports/Triple-A%20Brochure\\_Tools\\_Database.pdf](https://aaa-h2020.eu/sites/default/files/reports/Triple-A%20Brochure_Tools_Database.pdf)

## Triple-A Templates / Presentation

The Triple-A consortium partners are provided with a Word document template, Letterhead template, Word deliverable template and PowerPoint template to ensure standardisation of the project documentation and representation with a unique visual identity throughout the project lifetime. The templates are made available in the Alfresco file repository system. Alfresco is an internal platform that facilitates file sharing and versioning control between project partners. Several templates have been created for presentations, reports, agendas, newsletters, and press releases to be used by partners in their promotional activities (events' organisation, presentations in events, outcomes and opinions publishing, etc.) in order to have a common visual identity. For the layout of the project templates, see the deliverable D7.7 Communication Material and Media Coverage (1<sup>st</sup> edition).

A letterhead template was developed and designed in March 2021 to be used as an invitation to governmental bodies to ask them for follow-up communication to discuss further their ideas and intention to be part of Triple-A efforts and activities (See Annex A).

Another template was created for the factsheets targeted to the outcomes of the case studies in terms of market architecture and policy design (See Annex B).



Figure 12 Triple-A Templates

## Triple-A e-Newsletters

A series of e-Newsletters have been released to promote the project and its events as well as to disseminate Triple-A outcomes. The e-Newsletter has been disseminated to relevant stakeholders at the EU and MS level, who have already subscribed and have provided their consent to receive electronic communications regarding Triple-A progress, according to GDPR compliance. In more detail, from M15 (November 2020) to M33 (May 2022), the Triple-A progress has been promoted via the use of **2** electronic newsletters, which have been released to a comprehensive list of stakeholders and are available on the project website. The plan (also foreseen by the Grant Agreement) was to develop and circulate 4 e-Newsletters over the project lifetime, which is a target that has been successfully achieved since the project released **7** Newsletters in total. The number of subscribers' I has, at the end of May 2022, **682** active subscribers, and the target of more than 200 recipients, as was foreseen in the Grant Agreement, has already been achieved. The following sections describe the structure of the already published Newsletters and other Newsletters/Articles that Triple-A has been presented for its work, contribution, and general progress. For the newsletter of the previous period, see the deliverable D7.7 Communication Material and Media Coverage (1<sup>st</sup> edition).

## Triple-A Newsletter, Issue December 2020<sup>8</sup>

- ❖ Briefing note on energy transition in buildings
- ❖ Report "Communication Material and Media Coverage"
- ❖ Report "De-risking Energy Efficiency Investments"
- ❖ Event: Sustainable Places 2020 Workshop,
- ❖ Triple-A Stakeholders Working Meeting, "The Value of Energy Management Practices in the Business Sector" online event



Figure 13 Triple-A Newsletter, Issue December 2020

## Triple-A Newsletter, Issue June 2021<sup>9</sup>

- ❖ Triple-A Database on Energy Efficiency Financing
- ❖ Triple-A Events: Triple-A Capacity Building Webinars, 1st SMAFIN National Roundtable in Greece, A.V.A.G. Webinar, 3rd Meeting of the EEFIG Industry Working Group
- ❖ Triple-A Media: Standardised Triple-A Tools video, Triple-A Infographics, Triple-A Synergies
- ❖ News: Invitation for EEnvest Mid-Term Conference, E2DRIVER Learning Platform.

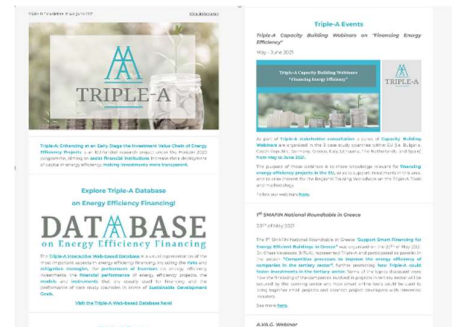


Figure 14 Triple-A Newsletter, Issue June 2021

## Triple-A Newsletter, Issue May 2022

- ❖ Triple-A Database on EE Financing
- ❖ Triple-A Events: Triple-A Capacity Building Webinars, 1st SMAFIN National Roundtable in Greece, A.V.A.G. Webinar, 3rd Meeting of the EEFIG Industry Working Group
- ❖ Triple-A Media: Standardised Triple-A Tools video, Infographics, Synergies
- ❖ News: Invitation for EEnvest Mid-Term Conference, E2DRIVER Learning Platform.



Figure 15 Triple-A Newsletter, Issue May 2022

<sup>8</sup> <https://preview.mailerlite.com/m1j9m8>

<sup>9</sup> <https://preview.mailerlite.com/n3l2u3>

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Other Related Newsletters<sup>10</sup>

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- ❖ **DEESME NEWS #2, DECEMBER 2021:** Triple-A synergy H2020 project DEESME has released its latest Newsletter, mentioning Triple-A joint article with sister projects Innoveas, SMEmpower, E2driver, ICCEE and Triple-A, and under the leadership of the Speedier project, which just came to an end, we explore all crucial measures for companies, especially SMEs, to become more energy efficient.
  - ❖ **INZEB INVITATION: INCREASING ENERGY EFFICIENCY INVESTMENT RATES IN GREECE:** Upcoming online event Increasing Energy Efficiency Investment Rates in Greece: From Theory to Practice to be held in the Greek language on 25 November 2021 at 13:00 CET. Information about the event in English is available [here](#).
  - ❖ **INNOVEAS PRESS RELEASE ISSUE OCTOBER 2021:** PRESS RELEASE – Towards a decarbonised Europe: Increasing energy efficiency in SMEs for the clean energy transition. 19 October 2021. INNOVEAS joined forces with six related Horizon 2020 projects: DEESME, E2DRIVER, SMEmpOWER, SPEEDIER, ICCEE and Triple-A.
  - ❖ **SPEEDIER NEWSLETTER, ISSUE OCTOBER 2021:** EUSEW 2021 event: Towards a decarbonised Europe: Increasing energy efficiency in SMEs for clean energy transition. 19 October 2021.
  - ❖ **INZEB NEWS & ACTIVITIES, ISSUE OCTOBER 2021:** Online event: National Recovery and Resilience Plan: Investing in Buildings' Renovation for a Climate Neutral Future organised by INZEB and GIZ and supported by H2020 projects iBRoad2EPC and Triple-A, and Build Back Better Greece initiative. 21 October 2021.
  - ❖ **INZEB NEWS & ACTIVITIES SEPTEMBER-OCTOBER 2021:** Recording and the proceedings of the online event National Recovery and Resilience Plan: Investing in Building Renovation for a Climate Neutral Future" 21.10.2021. Upcoming Triple-A and SMAFIN are joint event "Increasing Energy Efficiency Investment Rates in Greece: From Theory to Practice", 25.11.2021
  - ❖ **ICCEE PRESS RELEASE, SEPTEMBER 2021:** 7 projects provide SMEs guidelines and good practices to implement energy efficiency solutions and facilitate the energy transition.
  - ❖ **DEESME PRESS RELEASE, SEPTEMBER 2021:** Towards a decarbonised Europe - Increasing energy efficiency in SMEs for a clean energy transition: 7 projects funded by the European programme Horizon 2020 join forces to host high-level event.
  - ❖ **INZEB NEWS & ACTIVITIES, ISSUE JULY-AUGUST 2021:** Save the date: National Recovery and Resilience Plan: Investing in Buildings' Renovation for a Climate Neutral Future organised by INZEB and GIZ and supported by H2020 projects iBRoad2EPC and Triple-A, and Build Back Better Greece initiative. 21 October 2021.
  - ❖ **IEECP NEWSLETTER, ISSUE APRIL/ MAY 2021:** Triple-A Capacity Building Webinars, Capacity Building Webinar in the Netherlands.
  - ❖ **IEECP NEWSLETTER, ISSUE FEBRUARY 2022:** Triple-A Article "Hiding fossil fuel subsidies under clean energy targets?", IEECP and ABN AMRO collaboration for energy efficient projects in The Netherlands, Triple-A Survey on Building Sector: The Case of Greece.
  - ❖ **INZEB NEWS & ACTIVITIES MARCH-APRIL 2022<sup>11</sup>:** Promotion of the Triple-A Final European Roadshow event.
- 

<sup>10</sup> <https://aaa-h2020.eu/newsletters>

<sup>11</sup> <https://aaa-h2020.eu/sites/default/files/2022-05/%F0%9F%92%A1INZEB%20News%20%26%20Activities%20March-April%202022.pdf>

❖ **INVITATION FOR THE FINAL EUROPEAN ROADSHOW EVENT:** *Invitation sent to Greek SMAFIN stakeholders (Members of the WG) by INZEB.*

For the related newsletters that mentioned Triple-A in the previous period, see the deliverable D7.7 Communication Material and Media Coverage (1<sup>st</sup> edition).

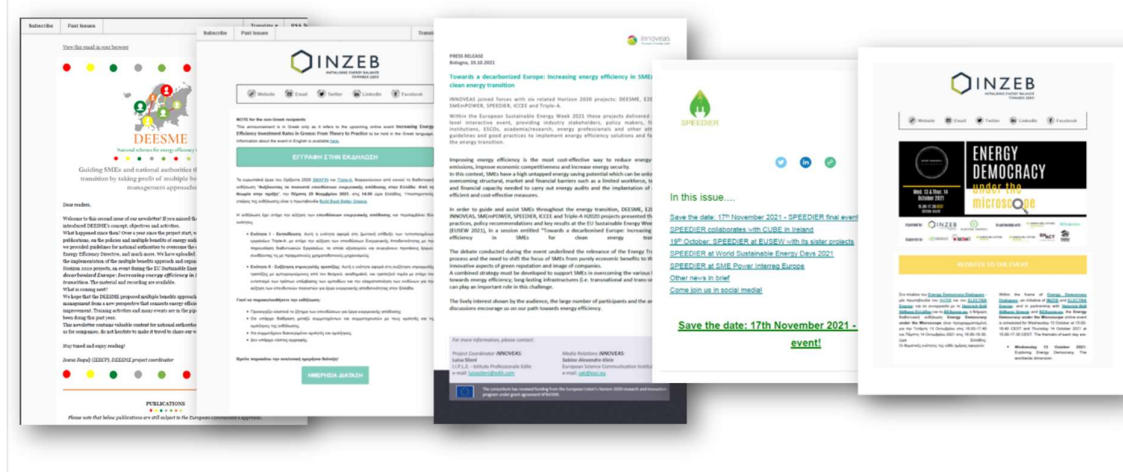


Figure 16 Other related newsletters



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*Triple-A Articles in Relevant Media*

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- ❖ *“Final Report on Correlation Analysis between Energy Efficiency & Risk”* by Energy Efficient Mortgages initiative (EEMI)/EeDaPP<sup>12</sup>.
  - ❖ Article in the Greek magazine ESG+ published by BOUSSIAS communications with the title *“Modern energy efficiency investment evaluation tools and ESG indicators”* (in Greek)<sup>13</sup>.
  - ❖ Article in Spanish magazine El Instalador about the implementation of energy efficiency in SMEs. *“La formación, el desarrollo de políticas corporativas y las auditorías energéticas, claves para el éxito de las medidas de eficiencia energética en pymes”*<sup>14</sup>.
  - ❖ Article in ESG stories<sup>15</sup>: *Everything a company needs to know about adopting ESG practices*.
  - ❖ IAMC News, *Triple-A Database on Energy Efficiency Financing*<sup>16</sup>.
  - ❖ VIPA website: *VIPA prisijungė prie tarptautinio Europos Sąjungos mokslinių tyrimų ir inovacijų finansavimo program*.
  - ❖ *Kviečiame dalyvauti tarptautinio projekto „Triple – A “konsultacijose*, VIPA website<sup>17</sup>.
  - ❖ SEVEn semi-annual bulletin, *“Risk-reducing approaches for energy efficiency projects”*, an article about Triple-A project and tools<sup>18</sup>.
  - ❖ Article on energypress: *“Επιδοτώντας ορυκτά καύσιμα πίσω από τους στόχους για την ενέργεια και το κλίμα”*<sup>19</sup>.
  - ❖ Article on Euractiv: *“Hiding fossil fuel subsidies under clean energy targets”*<sup>20</sup>
  - ❖ *Triple-A Article* included in the unique stories of the members of the *Onassis Scholars’ Association*<sup>21</sup>.
  - ❖ *Triple-A* article on *360 funding portal* - Invitation to the Final European Roadshow.<sup>22</sup>
  - ❖ *Triple-A* article on *360 funding portal*: “Triple-A at a Glance” mentioning the successful organisation of the Triple-A Final European Roadshow.<sup>23</sup>
  - ❖ *Article in GFT blog*: Progetto Triple-A: come migliorare la value chain dei progetti di efficienza energetica.
- 

<sup>12</sup> [https://aaa-h2020.eu/sites/default/files/2020-09/EeDaPP\\_D57\\_27Aug20.pdf](https://aaa-h2020.eu/sites/default/files/2020-09/EeDaPP_D57_27Aug20.pdf)

<sup>13</sup> [https://issuu.com/boussiascommunications/docs/esg\\_1\\_issuu\\_e-magazine?fr=sMWU00TMvODI1OTU](https://issuu.com/boussiascommunications/docs/esg_1_issuu_e-magazine?fr=sMWU00TMvODI1OTU)

<sup>14</sup> <https://www.interempresas.net/Instaladores/Articulos/371800-formacion-desarrollo-politicas-corporativas-auditorias-energeticas-claves-exito-medidas.html>

<sup>15</sup> <http://www.esgstories.gr/business-esg/haris-doykas-ola-osa-prepei-na-xerei-mia-epiheirisi-gia-tin-viothetisi-praktikon-esg>

<sup>16</sup> <https://www.iamconsortium.org/news-from-the-community/news-f-the-community/triple-a-database-on-energy-efficiency-financing/>

<sup>17</sup> <https://www.vipa.lt/kvieciame-dalyvauti-tarptautinio-projekto-triple-a-konsultacijose/>

<sup>18</sup> <http://www.svn.cz/cs/aktualita/zpravy-ze-seven-2020>

<sup>19</sup> <https://energypress.gr/news/epidotontas-orykta-kaysima-piso-apo-toys-stohoy-s-gia-tin-energeia-kai-klima>

<sup>20</sup> <https://www.euractiv.com/section/energy/opinion/hiding-fossil-fuel-subsidies-under-clean-energy-targets/>

<sup>21</sup> <https://www.onassis.org/initiatives/onassis-communities/onassis-scholars-association/success-stories/charikleia-karakosta>

<sup>22</sup> <https://www.360funding.gr/ekdiliwseis/triple-a>

<sup>23</sup> <https://www.360funding.gr/arthrografia/to-ergo-triple-me-mia-matia>

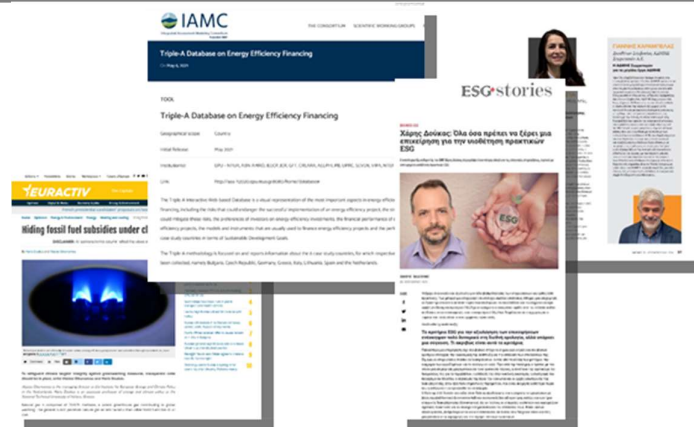


Figure 17 Triple-A Articles in Relevant Media

For articles that mentioned Triple-A in the previous period, see deliverable D7.7 Communication Material and Media Coverage (1<sup>st</sup> edition).



## Triple-A Press Releases

Dedicated Press Releases were developed as needed, aiming to strategically place the outcomes and issues that have arisen (such as the Covid-19 pandemic crisis) of the project at local, regional, national, and European levels. Similar to the newsletters, press releases are circulated to e-communication subscribers and International Institute for Sustainable Development (IISD<sup>24</sup>) mailing lists<sup>25</sup> and are available on the project website. The following sections describe in detail the content of the press releases developed.

For the Triple-A press releases of the previous period, see the deliverable D7.7 Communication Material and Media Coverage (1<sup>st</sup> edition).

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<sup>24</sup> The International Institute for Sustainable Development (IISD) is an award-winning independent think tank working to fulfill a bold commitment: to create a world where people and the planet thrive.

<sup>25</sup> For more than 20 years, IISD has maintained a group of mailing lists for those in the sustainable development community. This includes peer-to-peer lists such as Climate-L, Biodiversity-L and Water-L. It also includes one-way distribution lists for the Earth Negotiations Bulletin, the SDG Update and Climate Change Jobs Vacancies.

**Triple-A Press Release, Issue 3 May 2022<sup>26</sup>:** Key takeaways and outcomes of the Triple-A Final European Roadshow.

**Triple-A Press Release, Issue 2 May 2022<sup>27</sup>:** Invitation to the event: Facilitating Energy Efficiency Project Financing at an Early Stage: Recommendations from the Triple-A project 10.05.2022 (in Greek).

**Triple-A Press Release, Issue May 2022<sup>28</sup>:** Promotion of the Triple-A Final European Roadshow.

**Triple-A Press Release, Issue 3, March 2022<sup>29</sup>:** Promotion of the Country Reports of the Triple-A Database.

**Triple-A Press Release, Issue 2, March 2022<sup>30</sup>:** Joint Triple-A and INFINITECH projects webinar “Risk Assessment Techniques for Modern Sustainable Investments.”

**Triple-A Press Release, Issue 1, March 2022<sup>31</sup>:** Outcomes of the Triple-A Regional Training Workshops in Bulgaria, Germany, Italy, Lithuanian, The Netherlands.

**Triple-A Press Release, Issue, December 2021<sup>32</sup>:** Outcomes of the Triple-A Regional Training Workshops in the Czech Republic, Greece and Spain.

**Triple-A Press Release, Issue November 2021<sup>33</sup>:** Invitation for the Triple-A Greek Training Workshop: Increasing Energy Efficiency Investment Rates in Greece: From Theory to Practice, 25.11.2021 (in Greek)

**Triple-A Press Release, Issue 2 October 2021<sup>34</sup>:** Invitation to the event:

National Recovery and Resilience Plan: Investing in Buildings' Renovation for a Climate Neutral Future, 21.10.2021 (in Greek).

**Triple-A Press Release, Issue October 2021<sup>35</sup>:** 6th Triple-A Briefing Note: Triple-A Webinar Series on Financing Energy Efficiency Projects.

**Triple-A Press Release, Issue 2 September 2021<sup>36</sup>:** Triple-A joint event “Integration of Finance for Energy Efficiency”, 29/09/2021, at 17:00 - 18:30, during Sustainable Places 2021.

**Triple-A Press Release, Issue September 2021<sup>37</sup>:** EUSEW event: “Towards a decarbonised Europe: Increasing energy efficiency in SMEs for a clean energy transition”, 19.10.2021.

**Triple-A Press Release, Issue July 2021<sup>38</sup>:** Outcomes of the Triple-A Capacity Building Webinars on Financing Energy Efficiency in Bulgaria, (follow-up), Germany, Italy, Lithuania.

**Triple-A Press Release, Issue 2 June 2021<sup>39</sup>:** Triple-A Web-Based Database: Bridging the Transparency Gap in Energy Efficiency Financing

<sup>26</sup> <https://app.mlsend.com/n2z1b4k5d8/>

<sup>27</sup> <https://preview.mailerlite.com/e3f5m5e4w3>

<sup>28</sup> <https://preview.mailerlite.com/g1q9e7v5a2>

<sup>29</sup> <https://preview.mailerlite.com/p6h8z1y7p6>

<sup>30</sup> <https://preview.mailerlite.com/l3m9e7j0f7>

<sup>31</sup> <https://preview.mailerlite.com/u4n5d7l1n0>

<sup>32</sup> <https://aaa-h2020.eu/sites/default/files/2022-01/Triple-A%20Press%20Release%2C%20Issue%2C%20December%202021.pdf>

<sup>33</sup> <https://aaa-h2020.eu/sites/default/files/2021-11/Triple-A%20Press%20Release%2C%20Issue%20November%202021.pdf>

<sup>34</sup> <https://aaa-h2020.eu/sites/default/files/2022-01/%CE%A0%CF%81%CF%8C%CF%83%CE%BA%CE>

[%BB%CE%B7%CF%83%CE%B7%20CE%B3%CE%B9%CE%B1%20CF%84%CE%B7%CE%BD%20CE%B5%CE%BA%CE%B4%CE%AE%CE%BB%CF%89%CF%83%CE%B7%2C%2021-10-2021.pdf](https://aaa-h2020.eu/sites/default/files/2021-10/Triple-A%20Press%20Release%20Issue%2C%20October%2021.pdf)

<sup>35</sup> <https://aaa-h2020.eu/sites/default/files/2021-10/Triple-A%20Press%20Release%20Issue%2C%20October%2021.pdf>

<sup>36</sup> <https://aaa-h2020.eu/sites/default/files/2021-09/Triple-A%20Press%20Release%20Issue%202%2C%20September%202021.pdf>

<sup>37</sup> <https://aaa-h2020.eu/sites/default/files/2021-09/Issue%20September%202021.pdf>

<sup>38</sup> <https://aaa-h2020.eu/sites/default/files/2021-08/Issue%2C%20July%202021.pdf>

<sup>39</sup> <https://aaa-h2020.eu/sites/default/files/2021-08/Issue%2C%20July%202021.pdf>

***Triple-A Press Release, Issue June 2021<sup>40</sup>:***

Outcomes of the Triple-A Capacity Building Webinars on Financing Energy Efficiency in Bulgaria, Czech Republic, Greece, Netherlands and Spain.

***Triple-A Press Release, Issue 2 April 2021<sup>41</sup>:***

Integration of two standardised approaches for transparency, improving Energy Efficiency investments and confidence between owner and investor in Building Sector

***Triple-A Press Release, Issue April 2021<sup>42</sup>:***

Triple-A Survey: Investors' Preferences on Energy Efficiency Investments

***Triple-A Press Release, Issue March 2021<sup>43</sup>:***

Triple-A Survey on Building Sector: The case of Greece

***Triple-A Press Release, Issue January 2021<sup>44</sup>:***

Triple-A Questionnaire on Building Sector: Highlights

***Triple-A Press Release, Issue December 2020<sup>45</sup>:***

Triple-A Questionnaires on Energy Efficiency Financing

<sup>40</sup> <https://aaa-h2020.eu/sites/default/files/2021-06/Triple-A%20Newsletter%20June%202021.pdf>

<sup>41</sup> <https://aaa-h2020.eu/sites/default/files/2021-04/Triple-A%20Press%20Release%2C%20Issue%202%20April%202021.pdf>

<sup>42</sup> <https://aaa-h2020.eu/sites/default/files/2021-04/Triple-A%20Press%20Release%2C%20Issue%20April%202021.pdf>

<sup>43</sup> <https://aaa-h2020.eu/sites/default/files/2021-03/Issue%20March%202021.pdf>

<sup>44</sup> <https://aaa-h2020.eu/sites/default/files/2021-01/Issue%20January%202021.pdf>

<sup>45</sup> <https://aaa-h2020.eu/sites/default/files/2020-12/Triple-A%20Press%20Release%20Issue%20December%202020.pdf>



Figure 18 Triple-A Press Releases

## Triple-A Digital Platforms

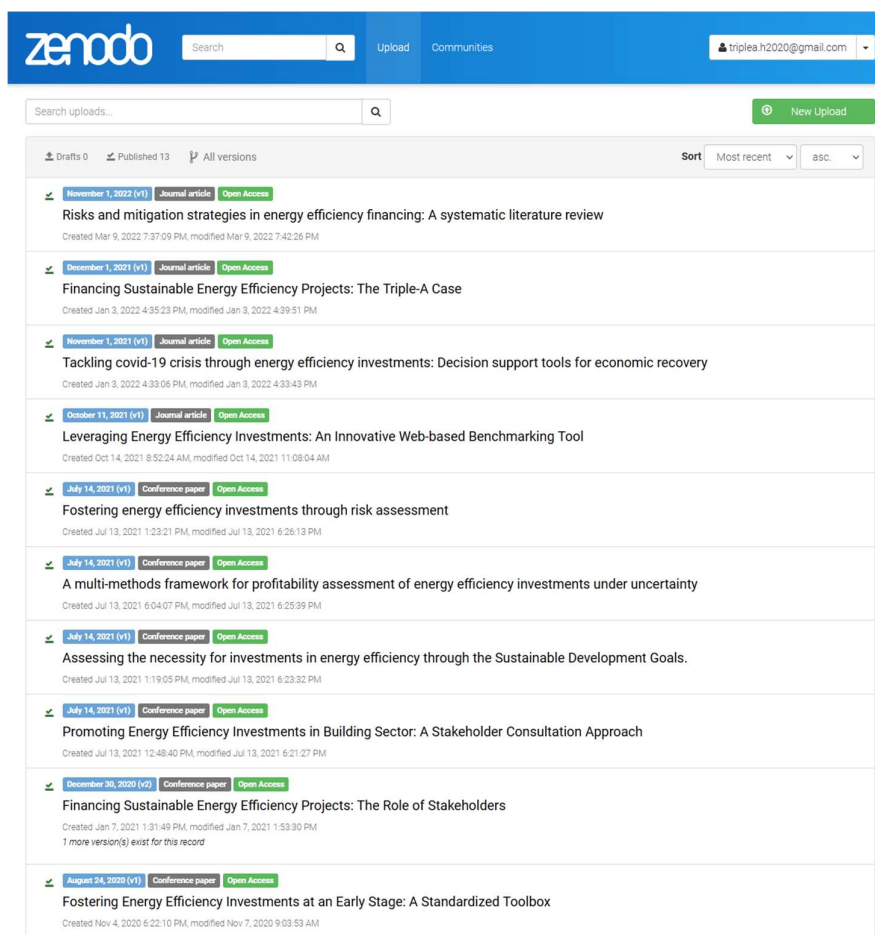
Triple-A has investigated collaboration with several platforms to share/post information about the project updates and results on sites regularly visited by our key target groups.

Until now, the project is represented in energypedia and capacity4dev, where communication material and events descriptions are available. In addition, all newsletters and press releases are promoted through IISD Mailing Lists.

Platforms for promoting publications have also been explored. Triple-A has accounts in zenodo and ResearchGate. Zenodo is an open-access repository that allows researchers to deposit research papers, data sets, research software, reports, and any other research-related digital artefacts. All the pre-prints of Triple-A publications are uploaded in zenodo to be open access as required, while an account in ResearchGate has been created with all the public reports and publications. In Zenodo, until May 2021, **15** publications have been uploaded to the online platform, gathering **278** views and **250** downloads. **8** papers have been uploaded in ResearchGate and have gathered 170 reads. **46** reports and communication material have been uploaded in capacity4dev and **20** in energypedia platform.

Partners use their websites, events and contacts to share and disseminate project related information and results as widely as possible, and more than **101** relevant web pages (partners and external stakeholders websites) host Triple-A articles and announcements.





Publication Title	Date	Type	Access
Risks and mitigation strategies in energy efficiency financing: A systematic literature review	November 1, 2022 (v1)	Journal article	Open Access
Financing Sustainable Energy Efficiency Projects: The Triple-A Case	December 1, 2021 (v1)	Journal article	Open Access
Tackling covid-19 crisis through energy efficiency investments: Decision support tools for economic recovery	November 1, 2021 (v1)	Journal article	Open Access
Leveraging Energy Efficiency Investments: An Innovative Web-based Benchmarking Tool	October 11, 2021 (v1)	Journal article	Open Access
Fostering energy efficiency investments through risk assessment	July 14, 2021 (v1)	Conference paper	Open Access
A multi-methods framework for profitability assessment of energy efficiency investments under uncertainty	July 14, 2021 (v1)	Conference paper	Open Access
Assessing the necessity for investments in energy efficiency through the Sustainable Development Goals.	July 14, 2021 (v1)	Conference paper	Open Access
Promoting Energy Efficiency Investments in Building Sector: A Stakeholder Consultation Approach	July 14, 2021 (v1)	Conference paper	Open Access
Financing Sustainable Energy Efficiency Projects: The Role of Stakeholders	December 30, 2020 (v1)	Conference paper	Open Access
Fostering Energy Efficiency Investments at an Early Stage: A Standardized Toolbox	August 24, 2020 (v1)	Conference paper	Open Access

Figure 19 Triple-A Zenodo Publications

## Triple-A Social Networks

The Triple-A account on **Twitter** has been mentioned **325** times in other accounts' posts, visited **8,358** times and has **416** followers, while posts have been viewed more than **207,428** times.

The **LinkedIn** page has been accessed **1,355** times by **804** unique visitors, and it has an audience of **374** followers, while the Triple-A posts have been viewed **54,583** times.

The Triple-A **Instagram** account has **155** followers, while the Triple-A posts have been viewed more than **8,232** times.

The **YouTube** Triple-A channel has **23** videos with **1,101** views, in total.

Finally, posts in social media have been further promoted via **partners' social channels**, while most partners have used their websites to promote Triple-A news. In total, project's partners have posted **176** posts in Twitter, Facebook and LinkedIn, gathering **68,882** impressions and **1,044** clicks, while the posts have been retweeted **50** times.

## Triple-A Social Media Accounts

Twitter: @H2020\_AAA  
 LinkedIn: Triple-A Project  
 Instagram: triple\_a\_horizon2020  
 YouTube: TripleA Horizon 2020

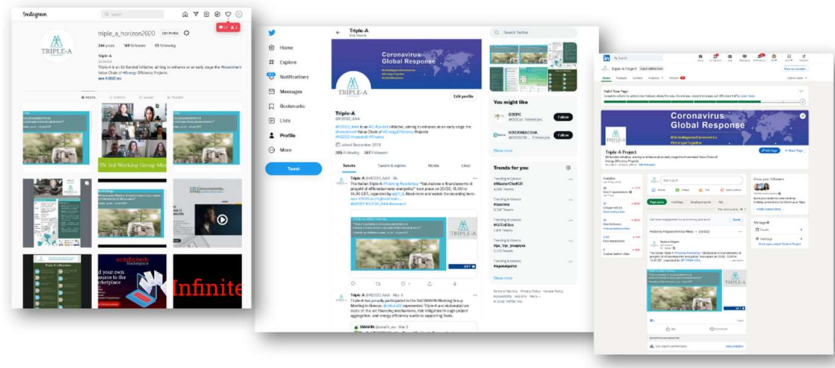


Figure 20 Triple-A Social Media Accounts

## Triple-A Factsheets<sup>46</sup>

Factsheets ensure the dissemination of the project results, and already **13** factsheets have been developed with the following content:

**4<sup>th</sup> Triple-A Factsheet:** Project Information, Project Description, Objective, Field of science, Call for proposal, Funding Scheme, Coordinator, Participant

**5<sup>th</sup> Triple-A Factsheet:** Summary of the context and overall objectives, Work performed, and main results achieved, Progress beyond state of the art, Expected results and potential impacts

**6<sup>th</sup> Triple-A Factsheet:** Short description of the project, deliverables, main achievements in numbers, Triple-A Tools and Database

**7<sup>th</sup> Triple-A Factsheet:** Triple-A Methodology, Standardised Triple-A Tools, Triple-A Database on Energy Efficiency Financing, Triple-A Recommendations, Partners

In addition, 8 more factsheets<sup>47</sup> have been developed based on the synthesis papers developed under WP6 on the market architecture and policy framework in each case study country.

For the three first factsheets of the previous period, see the deliverable D7.7 Communication Material and Media Coverage (1<sup>st</sup> edition).

<sup>46</sup> <https://aaa-h2020.eu/factsheets>

<sup>47</sup> Available in Annex D – Triple-A Case Study Factsheets

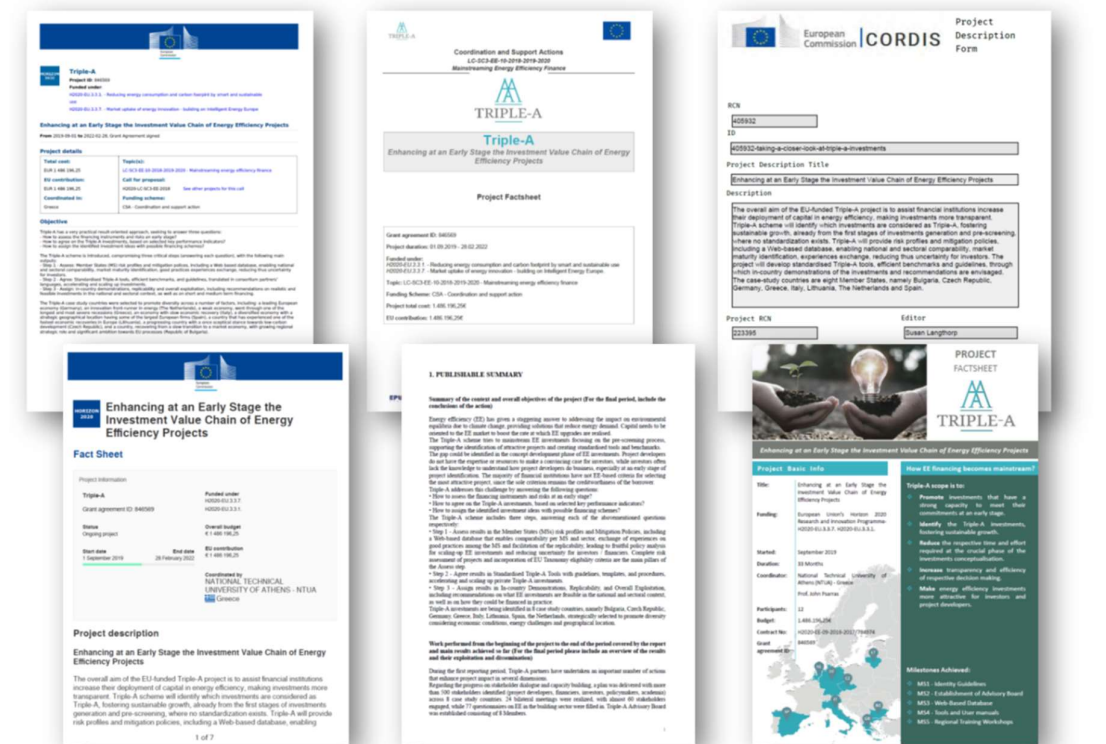


Figure 21 Triple-A Factsheets

## Triple-A Videos<sup>48</sup>

A total of **23** videos have been developed aiming at the promotion of Triple-A. It is worth mentioning that the development of videos was not expected in the Grant Agreement, but Triple-A took advantage and created two videos available on the Triple-A website and Triple-A YouTube channel under specific circumstances. The Triple-A videos have **1,101** views.

For the two first videos of Triple-A developed in the previous period, see the deliverable D7.7 Communication Material and Media Coverage (1<sup>st</sup> edition).

<sup>48</sup> <https://aaa-h2020.eu/videos>



## Triple-A at the 8<sup>th</sup> ICDSSST 2022<sup>49</sup>

This is a video presentation of the scientific poster promoting the Triple-A online ecosystem of energy efficiency financing supporting tools.

Read more about the conference [here](#).



Figure 22 Triple-A video at the 8<sup>th</sup> ICDSSST 2022

## Triple-A Overview and Key Results<sup>50</sup>

This is a brief update of the results, the methodology and the Tools developed by the Triple-A project.



Figure 23 Triple-A video with Overview and Key Results

<sup>49</sup> [https://www.youtube.com/watch?v=aT\\_JUINRi6g](https://www.youtube.com/watch?v=aT_JUINRi6g)

<sup>50</sup> <https://www.youtube.com/watch?v=KNrcrzqZRM0>



### Triple-A at EMCEI-2021<sup>51</sup>

Triple-A partners from NTUA participated at the 3<sup>rd</sup> Euro-Mediterranean Conference for Environmental Integration (EMCEI-2021) on the 10-13 June 2021 presenting the paper with the title “Impact of energy efficiency measures in the Greek building sector” authored by Karakosta C., Papapostolou A., Mexis P. D., Koutsandreas D., and Psarras J.



Figure 24 Triple-A video at EMCEI-2021

### Triple-A Event at EUSEW 2021<sup>52</sup>

Triple-A organised the webinar “Towards a decarbonised Europe: Increasing energy efficiency in SMEs for a clean energy transition” in October, together with 7 related EU initiatives as part of the [European Sustainable Energy Week](#) extended programme.

This session provided SMEs and all relevant stakeholders with real practical examples and guidelines on how to enable the implementation of energy efficiency solutions to facilitate the energy transition. It presented available services, tools and policies that could unlock a considerable amount of energy/cost savings and assist in achieving emission targets by sharing the actions, experiences and outcomes of the H2020 funded projects [DEESME](#), [E2DRIVER](#), [ICCEE](#), [INNOVEAS](#), [SMEmpower Efficiency](#), [SPEEDIER](#), [Triple-A](#).



Figure 25 Triple-A Event at EUSEW 2021

<sup>51</sup> [https://www.youtube.com/watch?v=mms\\_oSr2CXM](https://www.youtube.com/watch?v=mms_oSr2CXM)

<sup>52</sup> <https://aaa-h2020.eu/triple-events/towards-decarbonized-europe-increasing-energy-efficiency-smes-clean-energy-transition>

### Regional Training Workshops<sup>53</sup>

8 Regional Training Workshops tailored to the outcomes of the Standardised Triple-A Methodology were realised in Bulgaria, the Czech Republic, Germany, Greece, Italy, Lithuania, the Netherlands and Spain. They aim to facilitate a dynamic dialogue mechanism to share common tools and instruments on a national/regional level when introducing energy efficiency investments.

The recordings of the workshops are available on the Triple-A website and YouTube page.

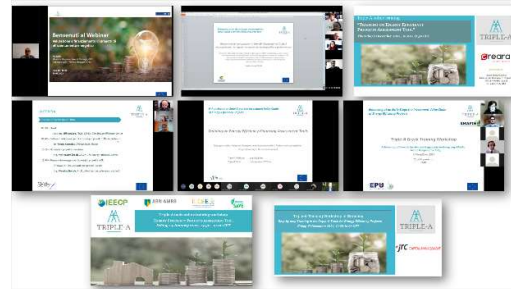


Figure 26 Triple-A Regional Training Workshops

### Capacity Building Webinars<sup>54</sup>

As part of Triple-A stakeholders' consultation, a series of Capacity Building Webinars have been organised in the 8 case study countries within the EU (i.e. Bulgaria, Czech Republic, Germany, Greece, Italy, Lithuania, The Netherlands, and Spain). These webinars shared knowledge relevant for financing energy efficiency projects in the EU so as to support investments in this area and to raise interest for the Regional Training Workshops on the Triple-A Tools and methodology.

The recordings of the webinars are available on the Triple-A website<sup>55</sup> and YouTube channel<sup>56</sup>.

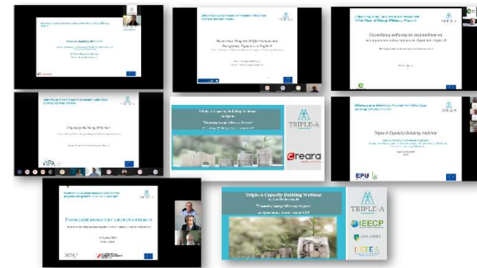


Figure 27 Triple-A Capacity Building Webinars

<sup>53</sup> <https://aaa-h2020.eu/regional-training-workshop>

<sup>54</sup> <https://aaa-h2020.eu/capacity-building-webinars>

<sup>55</sup> <https://aaa-h2020.eu/index.php/capacity-building-webinars>

<sup>56</sup> <https://www.youtube.com/channel/UCNfbcNdsNcLYLfWV6wEUyYw>

## Triple-A Tools User Manual<sup>57</sup>

Two (2) videos in Greek and English have been created with directions and instructions for the Triple-A Tools users to navigate them. The English version also provides subtitles in the languages of the 8 Triple-A case study countries.

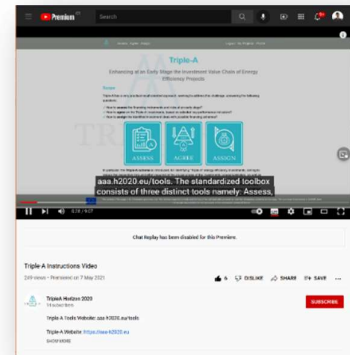


Figure 28 Triple-A Tools User Manual

## INFINITECH & Triple-A Webinar: Event Recording<sup>58</sup>

In collaboration with the H2020 INFINITECH project, Triple-A has organised the “Risk Assessment Techniques for Modern Sustainable Investments” online workshop. The two successful European initiatives joined forces in order to gather and promote knowledge regarding Risk Assessment Techniques for modern, sustainable and ESG compliant investments.

The workshop has been recorded, and the video is available on Youtube.

In the workshop, representatives of the Triple-A and the INFINITECH H2020 projects introduced the work carried out, presenting outcomes, results, and best practices regarding risk assessment techniques and methods. Furthermore, high-level experts and business actors ran a roundtable, sharing their knowledge and expertise apropos:

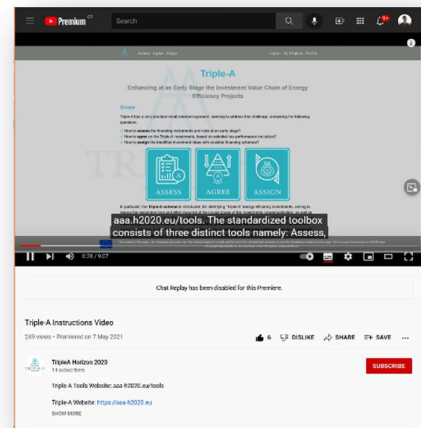


Figure 29 INFINITECH & Triple-A Webinar: Event Recording

<sup>57</sup> <https://toolbox.aaa-h2020.eu>

<sup>58</sup> <https://www.youtube.com/watch?v=sFlozXPrg6o>

## Triple-A Final European Roadshow <sup>59</sup>

The Final European Roadshow event of the Horizon 2020 Triple-A Project on “Facilitating Energy Efficiency Project Financing at an Early Stage: Recommendations from the Triple-A project” was successfully held online through MS Teams on the 10th of May 2022. The event focused on Triple-A’s key findings and recommendations, pairing them with European stakeholders’ perspectives, providing an overview and an introduction to the current state of energy efficiency support measures in the Netherlands. 139 registered attendees had the opportunity to learn more about energy efficiency projects’ financing, energy efficiency investments standardised benchmarking, our strategy for exploiting our main outputs and Tools, as well as key recommendations for European countries concerning the mainstreaming process of energy efficiency. The event is hosted by Dutch Triple-A partners ABN AMRO, one of the leading Dutch Banks & IIECP, an international research institute.

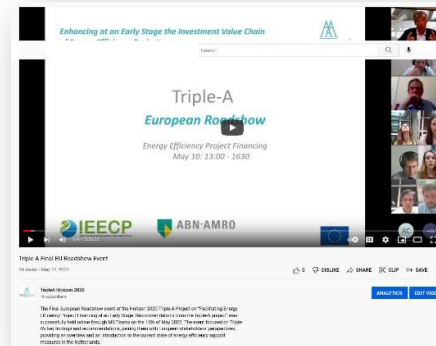


Figure 30 Triple-A Final European Roadshow: Event Recording

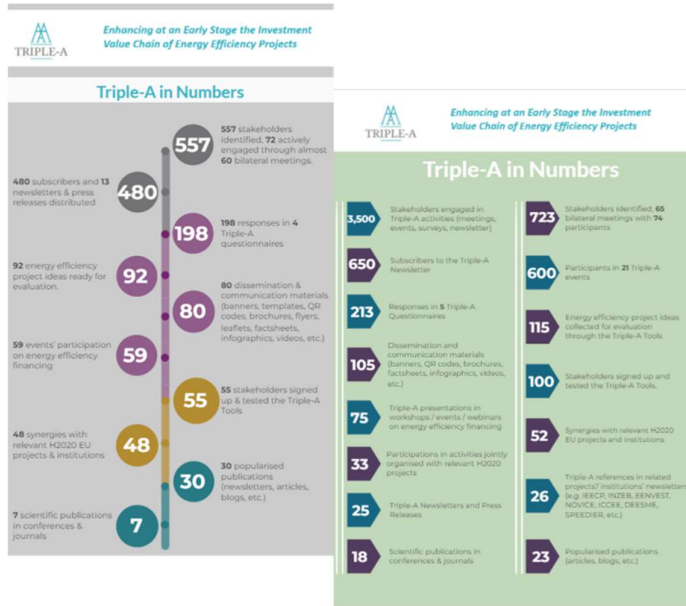
## Triple-A Infographics

Although unforeseen by the description of the action, 3<sup>rd</sup> Infographic on Database infographics were designed to present the project’s objective and key outcomes. They offer the 8 case study countries, the project’s impact on specific KPIs and the Database functionalities.

See the 1<sup>st</sup> infographic in the deliverable D7.7 Communication Material and Media Coverage (1<sup>st</sup> edition).

<sup>59</sup> <https://www.youtube.com/watch?v=asCaDYyKDA>

## Triple-A in Numbers<sup>60,61</sup>



### "Triple-A in Numbers"

Two (2) Triple-A Infographics were designed to periodically present the project's successful facts and figures in terms of stakeholders reached, newsletter subscribers, events, dissemination material, energy efficiency projects collected, etc.

Figure 31 Triple-A in Numbers Infographic

<sup>60</sup> <https://my.visme.co/view/pvyddyn4-triple-a-in-numbers-2021>

<sup>61</sup> <https://my.visme.co/view/ojng11w4-triple-a-in-numbers>

## Triple-A Database<sup>62</sup>

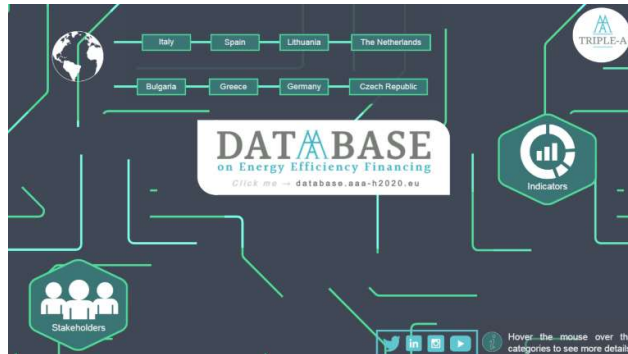


Figure 32 Triple-A Database Infographic

### “Triple-A Database”

This infographic presents the functionalities and content of Triple-A Web-based Database on Energy Efficiency Financing. All the indicators that are covered in the database are presented, while valuable links are provided for the potential users.

## Triple-A Posters

During the previous reporting period (M1 – M14) Two (2) posters were designed for the kick-off meeting, while, a promotional roll-up poster was designed and printed, including the basic information of the project, in order to be placed at all the internal and external events.

### Poster in the 8<sup>th</sup> International Conference on Decision Support System Technology

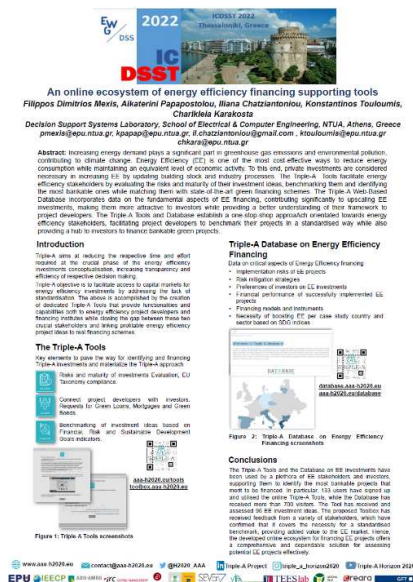


Figure 33 Poster in the 8<sup>th</sup> International Conference on Decision Support System Technology

Triple-A published a poster dedicated to the Triple-A Tools at the 8<sup>th</sup> International Conference on Decision Support System Technology. The poster presented the functionalities of the Triple-A Tools and the added value that they offer to the energy efficiency business sector.

<sup>62</sup> <https://my.visme.co/view/90r6y3o8-triple-a-database#s1>



## Triple-A Banners & QR Codes

Although not foreseen by the GA, a package of social media banners and QR codes has been created in order to catch the attention of Triple-A social media followers according to the Triple-A visual identity guidelines. During M1 (September 2019) – M15 (November 2020), Triple-A prepared 20 different social media banners regarding the promotion of brochures, infographics, and Newsletter as well as the project in general (aim and methodology).

For the period from M15 (November 2020) to M33 (May 2022), several banners were designed mainly for our events, QR codes and a Christmas card.

### *Triple-A Banners for the Capacity Building Webinars and Regional Training Workshops*

Several Triple-A banners were also designed to promote the Capacity Building Webinars and Regional Training Workshops in the case study countries. These banners were used in social media posts, website announcements, and press releases.

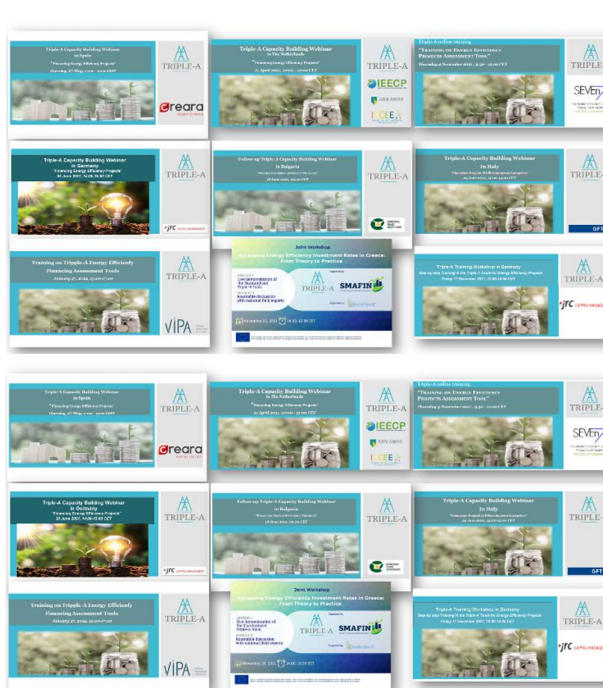


Figure 34 Triple-A Banners for the Capacity Building Webinars and Regional Training Workshops

## Banners for the Final European Roadshow

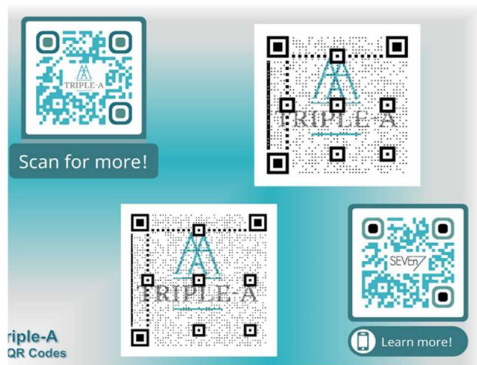
One banner was designed for the Triple-A Final European Roadshow with details on the date, place date on the event, while 9 banners were developed with the speakers' photos and quotes in order to promote the event through social media.



Figure 35 Triple-A Banners for the speakers of the Final European Roadshow



### Triple-A QR Codes<sup>63</sup>



In order to increase social media visibility, **26** QR codes have been created to facilitate users to reach Triple-A sites and material. QR codes are an interactive form of sharing web content, leading to more efficient engagement.

Figure 36 Triple-A QR Codes

### Triple-A Christmas Card

A Christmas Card was designed and sent to newsletter subscribers while also uploaded to our social media accounts



Figure 37 Triple-A Christmas Card

## Triple-A Scientific Publications

Although a Special Issue was envisaged at the proposal stage to be published, including a number of 6-7 papers on the topic of energy efficiency financing, in peer-review and open access journals, it was decided not to due to the large number of scientific papers that have already been published in journals and conference papers.

A total of **21** scientific publications have been presented in conferences and/or published in journals and books during the period November 2020 to May 2022.

- ❖ Karakosta, C., Papapostolou, A., Vasileiou, G., Psarras, J. (2021). *Financial Schemes for Energy Efficiency Projects: Lessons Learnt from In-Country Demonstrations*. Editor(s): David Borge-Diez, Enrique Rosales-Asensio, In Energy Services and Management, Energy

<sup>63</sup> <https://aaa-h2020.eu/dissemination-material>

- Services Fundamentals and Financing, Academic Press, Pages 55-78, ISBN 9780128205921, <https://doi.org/10.1016/B978-0-12-820592-1.00003-8>.
- ❖ Loureiro, T., Gil, M., Desmaris, R., Andaloro, A., Karakosta, C., and Plesser, S. *De-Risking Energy Efficiency Investments through Innovation*, Proceedings, vol. 65, no. 1, 2020: 3. DOI: 10.3390/proceedings2020065003.
  - ❖ Mexis F.D., Papapostolou A., Karakosta C., Doukas H. *Assessing the Necessity for Investments in Energy Efficiency through the Sustainable Development Goals*, 31st European Conference on Operational Research, 11-14 July 2021, Athens, Greece
  - ❖ Koutsandreas D., Kleanthis N., Karakosta C., Flamos A., *Fostering energy efficiency investments through risk assessment*, 31st European Conference on Operational Research, 11-14 July 2021, Athens, Greece
  - ❖ Papapostolou A., Karakosta C., Koutsandreas D., Mexis F. D., and Haris Doukas. *Promoting Energy Efficiency Investments in Building Sector: A Stakeholder Consultation Approach*, 31st European Conference on Operational Research, 11-14 July 2021, Athens, Greece
  - ❖ Kleanthis N., Koutsandreas D., Karakosta C., Doukas H., Flamos A. (2021), *A multi-methods framework for profitability assessment of energy efficiency investments under uncertainty*, 31st European Conference on Operational Research, 11-14 July 2021, Athens, Greece
  - ❖ Karakosta C., Papapostolou A., Mexis F.D., Koutsandreas D., Psarras J. *Impact of energy efficiency measures in the Greek building sector*, 3rd Euro Mediterranean Conference for environmental integration, Sousse, Tynisia, 2021
  - ❖ Koutsandreas, D., Kleanthis, N., Flamos, A., Karakosta, C., and Doukas, H. *Risks and Mitigation Strategies in Energy Efficiency Financing: A Systematic Literature Review*, Energy Reports , vol. 8, 2022: 1789–1802. DOI: 10.1016/j.egyr.2022.01.006.
  - ❖ Papapostolou A., Mexis F.D., Karakosta C., Psarras J. *A multicriteria tool to support decision-making in the early stages of energy efficiency investments*, 8th International Conference on Decision Support System Technology, 23-25 May 2022 Thessaloniki, Greece
  - ❖ Mexis F.D., Chatziantoniou I., Papapostolou A., Touloumis K., Karakosta C. *An online ecosystem of energy efficiency financing supporting tools*, 8th International Conference on Decision Support System Technology, 23-25 May 2022, Thessaloniki, Greece
  - ❖ C. Karakosta, A. Corovessi, A. Papapostolou, F.D. Mexis. *Investing in energy efficient households in Greece: Policy framework and market architecture*, Residential buildings management and energy efficiency investment potential in Western Balkan countries
  - ❖ Papapostolou, A., Karakosta, C., Mylona, Z., Psarras, J. (2021). *Energy Efficiency Financing and Stakeholder Engagement: Evidence from a Participatory Approach*, XIV Balkan Conference on Operational Research, 30 September-3 October 2020, Thessaloniki Greece, Springer Proceedings in Business and Economics (under review).
  - ❖ Mexis, F.D., Papapostolou, A., Karakosta, C., Sarmas, E., Koutsandreas, D., Doukas, H., *Leveraging Energy Efficiency Investments: An Innovative Web-Based Benchmarking Tool*, Advances in Science, Technology and Engineering Systems Journal, vol. 6, no. 5, 2021: 237–248. DOI: 10.25046/aj060526.
  - ❖ Karakosta C., Mylona Z., Karásek J., Papapostolou A., Geiseler E., *Tackling covid-19 crisis through energy efficiency investments*, Decision support tools for economic recovery, Energy Strategy Reviews, Volume 38, 2021, 100764, ISSN 2211-467X, <https://doi.org/10.1016/j.esr.2021.100764>.
  - ❖ Mexis, F.D.; Papapostolou, A.; Karakosta, C.; Psarras, J. *Financing Sustainable Energy Efficiency Projects: The Triple-A Case*, Environ. Sci. Proc. 2021, 11, 22. <https://doi.org/10.3390/environsciproc2021011022>

## 4 Conclusions

The Triple-A communication strategy was defined at the beginning of the project and continued with updates throughout the project's lifetime. The aim was to plan the actions strategically to identify key targets and set clear communication objectives for the dissemination actions to be fit-for-purpose, maximizing the impact potential. All beneficiaries were involved in the outreach activities, trying to convey the Triple-A message and results to the targeted audiences and stakeholders they are in close contact with. Triple-A partners tried to communicate research in a way that was also understood by a non-specialist, e.g., the media and the public. Of course, given the topic - it was not always possible to convey our message without at least some knowledge on the topics, but since this is unavoidable it is still good that measures were taken to mitigate the overall complexity, lowering the barriers for input and collaboration

To this end, a variety of digital Tools was designed and developed, having pertinent messages according to the audience, while the right medium and means were chosen reach as many stakeholders as possible. Some of the communication assets include posters and banners for the events promotion, templates and project logos in order to ensure that the project has established its own identity, online presence through different websites (official website, Tools, Database), social media presence to convey the message to specific communities and the general public, and articles, press releases and newsletter to announce and promote the different results immediately. Due to the project's maturity and needs, several means were also developed although unforeseen in the Grant Agreement, such as QR codes, audio-visual material, and infographics to reach interested parties with different and more interactive means.

The numbers reveal that the project's communication strategy had successful outcomes since more than **3,386** stakeholders were engaged, and **682** were recipients of the project Newsletters and Press Release. More than **730** stakeholders participated in the Triple-A events, while **961** followed the project on social media.

## Annex A – Letter for Governmental Bodies



*Enhancing at an Early Stage the Investment Value Chain of  
Energy Efficiency Projects*

Date

Dear xxx,

I am contacting you as the Project Coordinator of [Triple-A H2020 project](#) which supports capital providers (financiers and investors), in finding attractive project ideas, providing, in parallel, a better understanding of the project's framework to those looking for capital (project developers).

Energy efficiency projects represent an attractive investment opportunity; however, many technical branches need to be overcome in order to [reduce time and effort at the crucial phase of the investments conceptualisation and increase transparency and efficiency of decision-making processing](#). Triple-A provides the [Triple-A Toolbox](#), an online instrument for risk assessment and benchmarking of energy efficiency projects, which paves the way for [identifying and financing the most promising ones, called "Triple-A" investments](#). The Triple-A approach behind the Tools is in line with the EU Taxonomy Guidelines and utilises financial indicators and SDG criteria. Moreover, Triple-A offers the [Triple-A Web-based Database](#) on energy efficiency financing in order to provide [critical aspects and data](#) to relevant stakeholders, such as risks, mitigations strategies and financing models and instruments.

At this point of the project where our outcomes are robust and validated in eight (8) EU case study countries, we believe it would be a great opportunity to build communication bridges with key stakeholders from governmental bodies, to raise awareness and provide easy access in methodologies and data for key aspects on energy efficiency financing. Therefore, we are seeking opportunities to [engage key stakeholders](#) or [participate in targeted events](#) to inform, discuss and exchange ideas on Triple-A results and ideas.

In addition, and in order to reach a broader but relevant audience, Triple-A could [circulate a brief article/press release with key aspects on energy efficiency financing and ways to overcome barriers for successful financing](#). These could be shared and/or posted in relevant forums/websites.

We would be appreciative for a follow-up to discuss further your ideas and intention to be part of our effort.

We remain at your disposal for further clarifications on our activities.

Kind regards,



Dr Chara Karakosta | NTUA  
Triple-A Coordinator  
Email: [chkara@epu.ntua.gr](mailto:chkara@epu.ntua.gr)

Website: [aaa-h2020.eu](http://aaa-h2020.eu) Tools: [toolbox.aaa-h2020.eu](http://toolbox.aaa-h2020.eu)



The Triple-A project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 846569.

## Annex B – Triple-A Factsheet Template

# Triple-A Factsheet

Title



Partner, May 2022

## Annex C – Triple-A Factsheets

### 7<sup>th</sup> Triple-A Factsheet



**Coordination and Support Actions**  
*LC-SC3-EE-10-2018-2019-2020*  
**Mainstreaming Energy Efficiency Finance**



## Triple-A

*Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects*

### Project Factsheet

**Grant agreement ID:** 846569

**Project duration:** 01.09.2019 - 31.05.2022

**Funded under:**

*H2020-EU.3.3.1. - Reducing energy consumption and carbon footprint by smart and sustainable use*  
*H2020-EU.3.3.7. - Market uptake of energy innovation - building on Intelligent Energy Europe.*

**Topic:** LC-SC3-EE-10-2018-2019-2020 - Mainstreaming energy efficiency finance

**Funding Scheme:** CSA - Coordination and support action

**Project total cost:** 1.486.196,25€

**EU contribution:** 1.486.196,25€



## Summary of the context

Triple-A has a very practical result-oriented approach, addressing the challenge of mainstreaming energy efficiency (EE) investments, by seeking answers to the following questions:

- ✓ How to **assess** the financing instruments and risks at an early stage?
- ✓ How to **agree** on the Triple-A investments, based on selected key performance indicators?
- ✓ How to **assign** the identified investment ideas with possible financing schemes?

In particular, the **Triple-A scheme** identifies "Triple-A" EE investments, aiming to reduce the respective time and effort required at the crucial phase of the investments' conceptualisation, as well as to increase transparency and efficiency of respective decision making. In this respect, the main challenge lies in **identifying which investments can be considered as Triple-A investments**, fostering sustainable growth, while also having an extremely strong capacity to meet their commitments, **already from the first stages of investments generation and pre-selection/ pre-evaluation**. With this new scheme, we have sought and identified EE investments more transparent, predictable and attractive for investors / financiers and project developers.

## Triple-A Methodology

The **Triple-A scheme** comprises three critical steps clearly linked with each question mentioned above, with the following main outputs:

- ✓ **Step 1 - Assess:** Member States risk profiles and Mitigation Policies, including a **Web-based database** that enables comparability per Member State and sector, identification of market maturity, exchange of experiences regarding good practices among the Member States, and facilitation of the replicability, leading to fruitful policy analysis for scaling-up EE investments and reducing uncertainty for investors/financiers. Complete **risk assessment** of projects and incorporation of **EU Taxonomy eligibility criteria** are the main pillars of the Assess step.
- ✓ **Step 2 - Agree:** Standardised Triple-A Tools and Benchmarks with guidelines translated in all languages of the consortium partners accelerating and scaling up private Triple-A investments in EE.
- ✓ **Step 3 - Assign:** Assign results in **In-country Demonstrations, Replicability, and Overall Exploitation**, including recommendations on what EE investments are realistic and feasible in the national and sectoral context, as well as on how they could be financed in practice in the short or medium-term via innovative green financing schemes, such as Green Loans and Mortgages, Green Bonds, and Energy Efficiency Auctions. Particular focus is given on the aggregation of projects, reducing risks and fostering the financing of small-scale projects.

The Triple-A case study countries were selected to promote diversity across a number of factors, including: a leading European economy (**Germany**), an innovation front-runner in energy (**The Netherlands**), a weak economy, went through one of the longest and most severe recessions (**Greece**), an economy with slow economic recovery (**Italy**), a diversified economy with a strategic geographical location having some of the largest European firms (**Spain**), a country that has experienced one of the fastest economic recoveries in Europe (**Lithuania**), a progressing country with a once sceptical stance towards low-carbon development (**Czech Republic**), and a country, recovering from a slow transition to a market economy, with growing regional strategic role and significant ambition towards EU processes (**Republic of Bulgaria**).

## Standardised Triple-A Tools

The Triple-A Tools are the key elements to pave the way for the Triple-A methodology in order to facilitate investors and project developers and enhance the value chain of energy efficiency financing. The Triple-A Tools materialise the Triple-A scheme, organised according to three central pillars: **Asses**, **Agree** and **Assign**, making EE investments more transparent, predictable, and attractive for investors / financiers and project developers. In particular, three Tools have been developed:

**Assess Tool:** The Triple-A Assess Tool is the first step of the standardised Triple-A scheme for assessing and benchmarking EE project ideas. The Assess Tool mainly assesses the **risks** and **maturity** of the proposed EE investment. The risks are related to the specific country in which the project is implemented, the proposed technologies, and the project management, while the maturity of the investments is related to its readiness for implementation. In this respect, key parameters on the EE financing have been identified (e.g., risk level, size of the investment, type of energy efficiency projects, Energy Efficiency Measures (EEMs) eligibility, etc.) as eligibility criteria to increase security and trust. Additionally, the incorporation of the **EU Taxonomy** in the Triple-A scheme was considered appropriate as a state-of-the-art approach in sustainable financing. The first part of the Assess Tool is based on screening criteria that emerged from an excessive review of the EU Taxonomy. In addition, guidelines and criteria from the EU funded PREMIUM LIGHT PRO were incorporated in the Triple-A Outdoor Lighting Sector. At the end of the first part of the Assess Tool, the project would be assessed whether it is EU Taxonomy compliant or not. The second part of the assessment tool is a comprehensive risk assessment based on the user's answers to a set of questions that capture the specific characteristics of each investment, including, among others, the energy savings and baseline calculation methods, the existence of projects permits and the experience of the developing team. Finally, the aggregated risk value of the project is calculated.

**Agree Tool:** This Tool supports the **identification of Triple-A investments**. The **benchmarking** methodology takes into account **financial**, **environmental**, and **risk indicators**. The risk is embedded directly as calculated in the Assess Tool. The financial indicators are calculated based on harmonised parameters of the EU Directives and Regulations on Cost-Benefit Analysis of Investment. Additionally, the Environmental, Social, and Sustainability (**ESG**) criteria have been reflected from EU official statistics by deploying a unique methodology for each case study country. A dedicated methodology has been deployed to create sustainability, and social criteria for the Triple-A Tools, incorporating official Sustainable Development Goals (**SDG**) and Eurostat indicators. The methodology produces a parameterised SDG progress estimation (per project country and sector), using it as a criterion for the benchmarking procedure. A multicriteria decision analysis method, namely ELECTRE Tri, has been included in the assessment process to benchmark the project ideas that have been inserted. The candidate projects are classified into one of the following categories: "**Triple-A**", "**Reserved**", or "**Rejected**", according to their performance on the evaluation criteria. Standalone python scripts to execute the ELECTRE Tri multicriteria classification method and the SDG criteria calculation for the Agree Tool have been developed to be independently used for future applications and relevant platforms.

The development of the Agree Tools and the benchmarking methodology has been supported by the interoperability with the DEEP platform, sharing common KPIs, thresholds and calculation methods, while also Triple-A has become **a data provider of the DEEP 2.0 platform**, sharing data regarding energy efficiency projects, as collected in the Triple-A pipeline of energy efficiency financing. **36 projects** have been shared anonymously to the DEEP 2.0 platform so as to contribute to the Database's statistics. It has to be noted that the benchmarking thresholds are not considered static by the Triple-A methodology. They are continuously redefined and updated based on the feedback received by the Triple-A stakeholder consultation, including the results of Triple-A Questionnaires that have been disseminated to stakeholders.

**Assign Tool:** It is a multidimensional platform that aims to match benchmarked projects with financing institutions (e.g., funds, investors, banks) looking to invest in green EE projects and create a **green portfolio**. The Tool provides a pool of Triple-A projects and a parameterised investing portfolio to financing bodies. At



the same time, project developers, ESCOs, and EE companies could be notified in case their project has been selected for financing through a specific financing scheme. Triple-A Assign Tool supports all **innovative green financing schemes**, such as **Green Loans and Mortgages**, **Green Bonds** and the state-of-the-art financing method of the **Energy Efficiency Auctions**. The Triple-A Assign Tool acts as a facilitator to project aggregation, reducing risks and fostering the financing of small-scale projects. At the same time, it creates a trusted community of energy efficiency financiers and construction companies, as it supports the functionality of detailed user profiles, which can be viewed by other users (stakeholders), building confidence, and bringing reliability to the proposed investment ideas.

The Assign Tool benefits financing bodies as it provides them with access to a pool of **profitable, pre-evaluated Triple-A projects**. Stakeholders can filter and select projects according to criteria that fit their needs. Numerous project characteristics are laid out in a user-friendly interface, such as the project's benchmark rating, country, sector, enabling the user to examine potential proposed investments. Also, projects could be aggregated by investors to create a Green Bond portfolio, while they can explore a database of Green Bonds that have been published to the Tool. Financiers could view the companies and the projects included in the bond, check the characteristics of the Green Bond, and further communicate with the Green Bond issuer. In addition, the state-of-the-art financing scheme of the Energy Efficiency Auctions is fully supported in the Triple-A Tools, enabling users to upload auctions and aggregate projects in order to create portfolios. As far as project developers are concerned, they get notified of financing requests from potential investors, along with details regarding the proposed financing schemes and investors' contact data.



Screenshot of the Standardised Triple-A Tools

The Standardised Triple-A Tools have been implemented using Python 3.0 programming language. The web-based application is designed in Django, which is an open-source python web framework. The Triple-A Tools are accessible through the Triple-A Standardised Toolbox Platform<sup>1</sup>, which can be reached through the direct link, or the Triple-A webpage<sup>2</sup>. The Triple-A Tools will be available online even after the project end.

Triple-A Tools instruction video<sup>3</sup> created and uploaded on the Triple-A YouTube webpage in English and Greek and subtitles for all consortium languages. Triple-A Tools Guidelines<sup>4</sup> have been composed and

<sup>1</sup> Standardised Triple-A Toolbox: <http://toolbox.aaa-h2020.eu/>

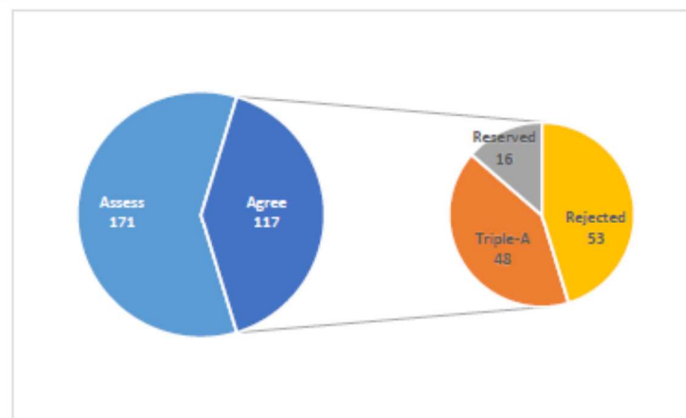
<sup>2</sup> Triple-A Webpage: <https://aaa-h2020.eu/tools/>

<sup>3</sup> Available here: <https://aaa-h2020.eu/index.php/videos>

<sup>4</sup> Available here: <https://aaa-h2020.eu/index.php/tools-guidelines>

translated to all consortium languages. As a matter of fact, 1243 users have visited the Triple-A Tools page, while also 170 users have signed up and utilised the online platform. Feedback on the Tools has been received from 228 stakeholders since a dedicated section on the Tools functionalities and usefulness has been included in three Triple-A questionnaires.

In total, 170 projects have been assessed by the Triple-A Assess Tool, while 119 have been inserted to the Triple-A Agree Tool, as provided by partners and stakeholders, in line with WP5 activities. 51 projects have been identified as Triple-A, while 16 projects have been identified as Reserved and 52 as Rejected. The benchmarking method is flexible, enabling adjustments according to the investment goals and rules of each type of financing institution or/and investor.



*Projects Classification in the Triple-A Tools*

### Triple-A Database on Energy Efficiency Financing

The Triple-A Database on Energy Efficiency Financing has been developed by NTUA since June 2020, accompanied by the respective report "Web-Based Database on Energy Efficiency Financing and Supporting Documentation"<sup>5</sup>. The Database is an [online interactive application](#) that incorporates the results from the status quo analysis and the elaboration/categorisation of the financing instruments and risk mitigation strategies within the framework of the Triple-A project and the Triple-A methodology. Thus, this knowledge database Triple-A offers a cross-country analysis, including [interactive maps and graphs](#).

<sup>5</sup> Available here: <https://tinyurl.com/2p966nm9>



### Triple-A Database on Energy Efficiency Financing

In particular, the Database includes data on **risks** and **uncertainty factors** that might reduce **profitability of investments** and endanger efficiency projects debt repayment, as they have been identified and categorised in the **Triple-A risk assessment methodology**.

**Investors** are facilitated from the information included in the Triple-A Database on Energy Efficiency Financing by the following means:

- ✓ **Country Risks** assist them to effectively select the country of implementation of energy efficiency measures.
- ✓ **Energy Efficiency Projects Risks** facilitate the understanding of energy efficiency projects' risk nature and the identification of the de-risking potential of energy efficiency projects.
- ✓ **Risk Mitigation Strategies** aid them to make better energy efficiency investments evaluations
- ✓ **IRR: Project's Perspective** supports the examination of energy efficiency projects' performance with respect to investment horizon, while also the identification of the optimal holding period.
- ✓ **Financial Models** serve in identifying innovative ways of combining financing instruments.

**Project Developers** are facilitated by the following means:

- ✓ **Energy Efficiency Projects Risks** help to understand energy efficiency projects' risk nature and identify de-risking potential of energy efficiency projects.
- ✓ **Risk Mitigation Strategies** serve to identify de-risking strategies.
- ✓ **IRR: Project's Perspective** acquires evidence of EE projects' profitability potential.
- ✓ **IRR: Investor's Perspective** facilitates the identification of the minimum required performance to be achieved.



Policy makers are facilitated by the following means:

- ✓ Energy Efficiency Projects Risks could be used to employ the risk assessment framework.
- ✓ Sustainable Development Goals assist in the identification of energy efficiency sectors that need to be prioritised.

The Triple-A Database has been continuously expanding and updating. The updates include:

- ✓ Enhancement of the Database's interface.
- ✓ Updates of the statistical indicators every 6 months.
- ✓ Checking if any of the statistical Eurostat indicator has been discontinued.
- ✓ Checking to include new indices that may arise.
- ✓ Checking of potential updates in the risk assessment methodology according to stakeholders' feedback.

The Web-Based Database<sup>6</sup> can be accessed easily accessed by Triple-A's website under the "Tools" section of the main navigation pane or through a direct link. The Database does not require any registration or log-in to be accessible.

The Triple-A Tools are interconnected with the Triple-A Database on Energy Efficiency Financing. A common communication framework has been established between the Triple-A Tools and the Triple-A Database on Energy Efficiency Financing. Data regarding country risks are automatically inserted into the Triple-A Tools from the Triple-A Database on Energy Efficiency Financing.

### Triple-A Recommendations


Nine (9) recommendation sets have been developed to provide an overview of integrating highlights from work conducted under the Triple-A project. Some of the highlights are the following:

- ✓ Countries need a steady flow of financing to meet their long-term energy and climate obligations with the financial institutions (both private and public). However, the lack of standardisation procedures makes this difficult and highlights that building confidence between project developers and investors is mandatory.
- ✓ To this end, energy efficiency financing tools (such as the Triple-A Toolbox) and finance schemes should be used widely to foster innovative financing schemes.
- ✓ Priority should be given to energy efficiency investments in the industry and buildings sector in all Triple-A case study countries with the ones with the strongest economic condition to lead the way with a holistic and multisectoral approach to financing schemes.
- ✓ The EU Taxonomy and the inclusion of the ESG criteria should work as the cornerstone of these investments, and regulatory frameworks should be prepared to comply with the EU Taxonomy standards.
- ✓ The regulatory frameworks should be ready for a rapid reflex to European Directives to embody whatever is required on time and in a manner to be easily applied both in the public and private sectors.
- ✓ Introducing a governmental collateral system would be pretty supportive and a clear long-term government tax policy on energy.
- ✓ The aggregation of energy efficiency projects seems critical as it reduces the overall investment risk and provides economies of scale.

<sup>6</sup> Available here: <https://aaa-h2020.eu/database> and <https://database.aaa-h2020.eu/>

- ✓ The careful examination of the borrower's creditworthiness or possible **ESCO contract** is essential. To this end, a **unified creditworthiness system** for green investments will drastically simplify and speed up the undertaking procedure.
- ✓ Proper **accreditation and certification** of technology supplies and energy efficiency market solutions, and standardised performance protocols will further boost successful energy efficiency investments.
- ✓ It is strongly recommended that policymaking stir towards the standardisation of project design to make the **energy efficiency projects' replicability** easier. In this context, establishing EU official tools and guidelines for standardised methods and procedures in benchmarking energy efficiency projects proved of great importance. Outcomes and products of Horizon 2020 projects (and other research projects) can be incorporated into a holistic approach to standardising energy efficiency projects.

## Partners

No.	Partner organisation	Country	EU contribution (€)	Logo
1	NATIONAL TECHNICAL UNIVERSITY OF ATHENS (NTUA)	Greece	299.156,25	
2	ABN AMRO NV (ABN AMRO)	Netherlands	95.500	
3	INSTITUTE FOR EUROPEAN ENERGY AND CLIMATE POLICY STICHTING (IEECP)	Netherlands	137.312,50	
4	JRC CAPITAL MANAGEMENT CONSULTANCY & RESEARCH GMBH (JRC)	Germany	129.625	
5	GFT ITALIA SRL (GFT)	Italy	80.562,50	
6	CREARA CONSULTORES SL CONSULTORES SL (CREARA)	Spain	126.125	
7	ADELPHI RESEARCH GEMEINNUTZIGE GMBH (adelphi)	Germany	70.437,50	
8	TRAPEZA PEIRAIOS AE (PB)	Greece	129.875	
9	UNIVERSITY OF PIRAEUS RESEARCH CENTER (UPRC)	Greece	133.875	
10	SEVEN, THE ENERGY EFFICIENCY CENTER Z.U. (SEVEN)	Czech Republic	119.815	
11	PUBLIC INVESTMENT DEVELOPMENT AGENCY (VIPA)	Lithuania	93.350	
12	NATSIONALNEN DOVERITELEN EKOFOND (NTEF)	Bulgaria	70.562,50	

## Contact Details

Coordinating entity: National Technical University of Athens – NTUA (Greece)

Address: Heron Polytechniou 9 Zographou Campus, 15780 Athens, Greece

Coordinator: Prof. John Psarras

Contact Person: Dr. Chara Karakosta (NTUA)

[chkara@epu.ntua.gr](mailto:chkara@epu.ntua.gr)

Contact Email:

[contact@aaa-h2020.eu](mailto:contact@aaa-h2020.eu)

Project web site: <https://aaa-h2020.eu/>

## 6<sup>th</sup> Triple-A Factsheet



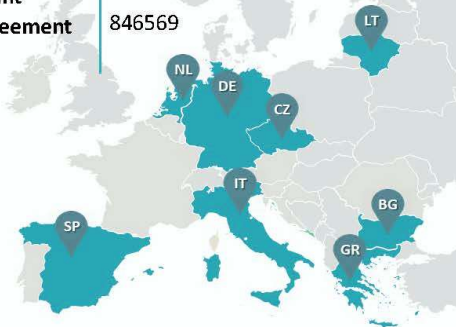
### PROJECT FACTSHEET



*Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects*

#### Project Basic Info

<b>Title:</b>	Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects
<b>Funding:</b>	European Union's Horizon 2020 Research and Innovation Programme-H2020-EU.3.3.7. H2020-EU.3.3.1.
<b>Started:</b>	September 2019
<b>Duration:</b>	33 Months
<b>Coordinator:</b>	National Technical University of Athens (NTUA) - Greece Prof. John Psarras
<b>Participants:</b>	12
<b>Budget:</b>	1.486.196,25€
<b>Contract No:</b>	H2020-EE-09-2016-2017/784974
<b>Grant agreement ID</b>	846569



#### How EE financing becomes mainstream?

##### Triple-A scope is to:

- ❖ **Promote** investments that have a strong capacity to meet their commitments at an early stage.
- ❖ **Identify** the Triple-A investments, fostering sustainable growth.
- ❖ **Reduce** the respective time and effort required at the crucial phase of the investments conceptualisation.
- ❖ **Increase** transparency and efficiency of respective decision making.
- ❖ **Make** energy efficiency investments more attractive for investors and project developers.





## Outcomes so far

### Stakeholders Facilitative Dialogue & Capacity Building

- ❖ Stakeholder analysis & engagement plan
- ❖ National stakeholders' consultations

### Energy Efficiency Financing Risks & Mitigation Strategies

- ❖ Cost of Capital Estimation of Energy Efficiency Projects across MS Countries
- ❖ Risks of Energy Efficiency Financing & Mitigation Strategies Typology
- ❖ Web-Based Database on Energy Efficiency Financing

### Tools and Benchmarks for Mainstreaming Energy Efficiency Investments

- ❖ Standardised Triple-A Tools
- ❖ User manuals
- ❖ Triple-A Benchmarking & evaluation

### Synthesis and Sustainability

#### Briefing Notes:

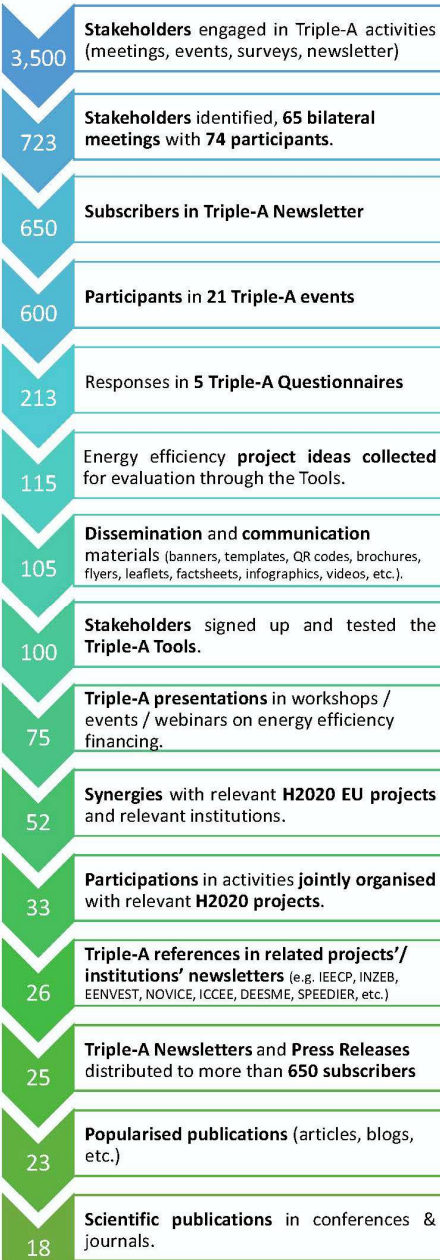
- ❖ Seven Horizon2020 Projects Advice EU Leaders how to prepare Buildings for the Energy Transition
- ❖ Triple-A Survey on Building Sector: The Case of Greece
- ❖ Triple-A Survey on Investors Preferences on Energy Efficiency Investments
- ❖ Integration of two Standardised Approaches for Transparency Improving of Energy Efficiency Investments & Confidence between Owner & Investor in Building Sector
- ❖ Triple-A Web-Based Database: Bridging the Transparency Gap in Energy Efficiency Financing
- ❖ Triple-A Webinar Series: Financing Energy Efficiency Projects

### Communication and Dissemination

- ❖ Communication & Dissemination Strategy
- ❖ Monitoring of Digital Communication Activities
- ❖ Communication Material & Media Coverage
- ❖ Triple-A Website

**Read more :** [aaa-h2020.eu/results](http://aaa-h2020.eu/results)

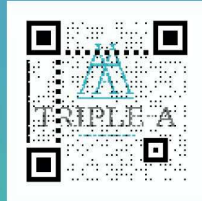
## Highlights in numbers



## Mainstreaming energy efficiency financing in a practical way

### The Triple-A Toolbox

*Key elements to pave the way for identifying and financing Triple-A investments and materialise the Triple-A approach*



[database.aaa-h2020.eu](http://database.aaa-h2020.eu)  
[aaa-h2020.eu/database](http://aaa-h2020.eu/database)



Risks Assessment and maturity of investments Evaluation, EU Taxonomy compliance check.



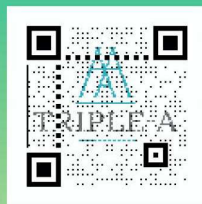
Benchmarking of investment ideas based on Financial, Risk and Sustainable Development Goals indicators.



Connect project developers with investors. Requests for Green Loans, Mortgages and Green Bonds.

### Triple-A Database on Energy Efficiency Financing

*Data on critical aspects of Energy Efficiency financing*



[aaa-h2020.eu/tools](http://aaa-h2020.eu/tools)  
[toolbox.aaa-h2020.eu](http://toolbox.aaa-h2020.eu)

- ❖ Implementation risks of EE projects
- ❖ Risk mitigation strategies
- ❖ Preferences of investors on EE investments
- ❖ Financial performance of successfully implemented EE projects
- ❖ Financing models and instruments
- ❖ Necessity of boosting EE per case study country and sector based on SDG indices

**DATABASE**  
on Energy Efficiency Financing

Visit our Website



[www.aaa-h2020.eu](http://www.aaa-h2020.eu)

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@H2020\_AAA



triple\_a\_horizon2020

Email us



[contact@aaa-h2020.eu](mailto:contact@aaa-h2020.eu)



Triple-A Project



Triple-A Horizon 2020





## 5<sup>th</sup> Triple-A Factsheet

### 1. PUBLISHABLE SUMMARY

#### **Summary of the context and overall objectives of the project (For the final period, include the conclusions of the action)**

Energy efficiency (EE) has given a staggering answer to addressing the impact on environmental equilibria due to climate change, providing solutions that reduce energy demand. Capital needs to be oriented to the EE market to boost the rate at which EE upgrades are realised.

The Triple-A scheme tries to mainstream EE investments focusing on the pre-screening process, supporting the identification of attractive projects and creating standardised tools and benchmarks.

The gap could be identified in the concept development phase of EE investments. Project developers do not have the expertise or resources to make a convincing case for investors, while investors often lack the knowledge to understand how project developers do business, especially at an early stage of project identification. The majority of financial institutions have not EE-based criteria for selecting the most attractive project, since the sole criterion remains the creditworthiness of the borrower.

Triple-A addresses this challenge by answering the following questions:

- How to assess the financing instruments and risks at an early stage?
- How to agree on the Triple-A investments, based on selected key performance indicators?
- How to assign the identified investment ideas with possible financing schemes?

The Triple-A scheme includes three steps, answering each of the abovementioned questions respectively:

- Step 1 - Assess results in the Member States (MSs) risk profiles and Mitigation Policies, including a Web-based database that enables comparability per MS and sector, exchange of experiences on good practices among the MS and facilitation of the replicability, leading to fruitful policy analysis for scaling-up EE investments and reducing uncertainty for investors / financiers. Complete risk assessment of projects and incorporation of EU Taxonomy eligibility criteria are the main pillars of the Assess step.
- Step 2 - Agree results in Standardised Triple-A Tools with guidelines, templates, and procedures, accelerating and scaling up private Triple-A investments.
- Step 3 - Assign results in In-country Demonstrations, Replicability, and Overall Exploitation, including recommendations on what EE investments are feasible in the national and sectoral context, as well as on how they could be financed in practice.

Triple-A investments are being identified in 8 case study countries, namely Bulgaria, Czech Republic, Germany, Greece, Italy, Lithuania, Spain, the Netherlands, strategically selected to promote diversity considering economic conditions, energy challenges and geographical location.

#### **Work performed from the beginning of the project to the end of the period covered by the report and main results achieved so far (For the final period please include an overview of the results and their exploitation and dissemination)**

During the first reporting period, Triple-A partners have undertaken an important number of actions that enhance project impact in several dimensions.

Regarding the progress on stakeholder dialogue and capacity building, a plan was delivered with more than 500 stakeholders identified (project developers, financiers, investors, policymakers, academia) across 8 case study countries. 24 bilateral meetings were realized, with almost 60 stakeholders engaged, while 77 questionnaires on EE in the building sector were filled in. Triple-A Advisory Board was established consisting of 8 Members.

A risk matrix on EE financing was formulated and the risk of each type of EE investment was assessed. More than 15 financing instruments and risk mitigation strategies have been identified, while efforts towards collecting data of real EE projects are intensified.

A draft version of the Triple-A Web-based Database on EE Financing (<https://aaa-h2020.eu/database>) was developed, incorporating results from the status quo analysis and the categorization of the financing instruments and risk mitigation strategies per case study country.

The Triple-A scheme was defined and the steps Assess and Agree are materialised through the draft Standardised Triple-A Tools (<https://toolbox.aaa-h2020.eu/>). User guidelines are available, explaining Triple-A Tools functionalities and the user inputs required. The Assess Tool inspects the compliance of the candidate projects with EU Taxonomy, having a Go / No-Go character, while performing an assessment of the project's total risk. The Agree Tool benchmarks the candidate projects, considering major Financial, Risk and Environmental, Social, and Governance (ESG) criteria, making use of a multicriteria classification method. Similar platforms and tools were explored (EEFIG Underwriting toolkit, DEEP Platform, LAUNCH ESCO contract, EBRD ESG risk assessment) and interoperability with the DEEP platform was established.

Initial steps made on the identification of Triple-A EE projects and robust financing programs. In practice, 50 projects have been identified and 25 of them tested in the Triple-A Tools. A working document was developed with guidelines for the EE investments pipeline and a project fiche template was created.

The Triple-A communication and dissemination strategy was developed to engage stakeholders and promote results. The Triple-A website has more than 14,200 pageviews and 8,200 unique visitors (<https://aaa-h2020.eu/>), while Triple-A social media have more than 380 followers. It is estimated that more than 2,500 stakeholders were reached in the context of dissemination and stakeholders engagement activities.

Visual identity and templates, 1 Triple-A leaflet, 3 promotional brochures (English & Czech), 3 factsheets, 1 roll-up poster, 2 videos and 1 infographic are some of the dissemination materials produced. 4 Triple-A newsletters and 2 press releases have been circulated. 6 scientific publications were presented in conferences and journals, while the project has 21 articles and more than 50 references in relevant media. Triple-A partners co-organised a workshop at the EUSEW 2020 Policy Session, while also participated in 33 external events. Finally, synergies with 30 relevant EU projects have successfully been established.

**Progress beyond the state of the art, expected results until the end of the project and potential impacts (including the socio-economic impact and the wider societal implications of the project so far)**

Triple-A will facilitate access to capital markets for EE investments by addressing the lack of standardisation of assets. Triple-A objective assessment, based on tested methodologies, is expected to reduce the uncertainty felt by financiers in the performance of EE investments and build their confidence that such investment could be attractive at low risk.

The final version of the Triple-A Tools will provide a standard rating to project ideas, which could be used to aggregate similar projects and create financial products that could be traded in secondary markets.

Online webinars series will be organised addressing asset owners and project developers, while bilateral meetings will be organised with stakeholders that wish to develop projects.

Substantial is the promotion of the Triple-A Tools among target groups, since almost 40 investors and project developers have already test them. The Agree Tool will be applied to at least 100 EE projects that will emerge from the Assess Tool, while 50-80 Triple-A investments and robust financing

programs will be identified in each case-study country. It is envisaged that at least 50 project fiches will be developed, ready for underwriting between financiers and project developers. Finally, Triple-A recommendations on supporting policy and legislative development and market architecture will be provided.

The primary energy savings triggered by the project up until now are 64.03 GWh/year, while the budget of the investments in sustainable energy triggered by the Triple-A amount to 27.68 million EUR.

#### Address (URL) of the project's public website

<https://aaa-h2020.eu/>

#### The Triple-A Web-based database on Energy Efficiency Financing



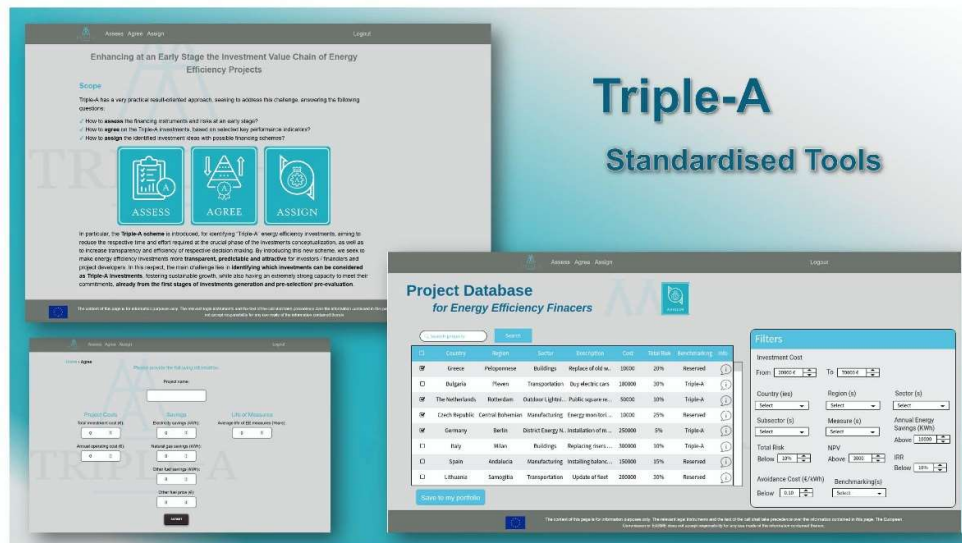
#### Triple-A EUSEW2020 Policy Conference Side Session\_18.10.2020

The screenshot displays the Triple-A EUSEW2020 Policy Conference Side Session presentation slide. The slide is titled "MORE TRANSPARENT AND ATTRACTIVE ENERGY EFFICIENCY PROJECTS IDEAS". It features a flowchart with three steps: ASSESS, AGREE, and ASSIGN. The slide also includes the Triple-A logo, the EPU logo, and contact information: [www.aaa-h2020.eu](http://www.aaa-h2020.eu) - [contact@aaa-h2020.eu](mailto:contact@aaa-h2020.eu). The date 22-26 JUNE 2020 and the hashtag #EUSEW2020 are also present.

## Indicative Triple-A Dissemination Material



## The Triple-A Standardised Tools





### Triple-A Stakeholders Meeting\_29 September 2020



## Indicative Triple-A Publications



py#he 3rd Triple-A project meeting (online event)\_16 October 20



Triple-A kick off meeting in Athens\_1&2 October 2019



Triple-A EUSEW2020 Policy Conference Side Session\_18.10.2020



**MODERATED PANEL DEBATE 1**

- Klemens Leutgöb, CEO, e7 energy innovation & engineering – **QualitEE project**
- Jessica Stromback, Managing Director, Joule Assets – **LAUNCH project**
- Stefan Plesser, Founder & CEO, synavision – **Quest project**
- Haris Doukas, Associate Professor, National Technical University of Athens – **Triple A project**
- Chaired by Valérie Plainemaison, General Secretary, EFIEES


 22-26 JUNE 2020  
 BEYOND THE CRISIS: CLEAN ENERGY FOR GREEN RECOVERY AND GROWTH  
 #EUSEW2020

## 4<sup>th</sup> Triple-A Factsheet



**HORIZON  
2020**

### Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects

#### Fact Sheet

##### Project Information

##### Triple-A

Grant agreement ID: 846569

##### Status

Ongoing project

##### Start date

1 September 2019

##### End date

28 February 2022

##### Funded under

H2020-EU.3.3.7.

H2020-EU.3.3.1.


##### Overall budget

€ 1 486 196,25

##### EU contribution

€ 1 486 196,25

##### Coordinated by

NATIONAL TECHNICAL  
UNIVERSITY OF ATHENS - NTUA  
 Greece

#### Project description

##### Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects

The overall aim of the EU-funded Triple-A project is to assist financial institutions increase their deployment of capital in energy efficiency, making investments more transparent. Triple-A scheme will identify which investments are considered as Triple-A, fostering sustainable growth, already from the first stages of investments generation and pre-screening, where no standardization exists. Triple-A will provide risk profiles and mitigation policies, including a Web-based database, enabling



national and sectoral comparability, market maturity identification, experiences exchange, reducing thus uncertainty for investors. The project will develop standardised Triple-A tools, efficient benchmarks and guidelines, through which in-country demonstrations of the investments and recommendations are envisaged. The case-study countries are eight Member States, namely Bulgaria, Czech Republic, Germany, Greece, Italy, Lithuania, The Netherlands and Spain.

## Objective

Triple-A has a very practical result-oriented approach, seeking to answer three questions:

- How to assess the financing instruments and risks at an early stage?
- How to agree on the Triple-A investments, based on selected key performance indicators?
- How to assign the identified investment ideas with possible financing schemes?

The Triple-A scheme is introduced, comprising three critical steps (answering each question), with the following main outputs:

- Step 1 - Assess: Member States (MS) risk profiles and mitigation policies, including a Web based database, enabling national and sectoral comparability, market maturity identification, good practices experiences exchange, reducing thus uncertainty for investors.
- Step 2 - Agree: Standardised Triple-A tools, efficient benchmarks, and guidelines, translated in consortium partners' languages, accelerating and scaling up investments.
- Step 3 - Assign: In-country demonstrations, replicability and overall exploitation, including recommendations on realistic and feasible investments in the national and sectoral context, as well as on short and medium term financing.

The Triple-A case study countries were selected to promote diversity across a number of factors, including: a leading European economy (Germany), an innovation front-runner in energy (The Netherlands), a weak economy, went through one of the longest and most severe recessions (Greece), an economy with slow economic recovery (Italy), a diversified economy with a strategic geographical location having some of the largest European firms (Spain), a country that has experienced one of the fastest economic recoveries in Europe (Lithuania), a progressing country with a once sceptical stance towards low-carbon development (Czech Republic), and a country, recovering from a slow transition to a market economy, with growing regional strategic role and significant ambition towards EU processes (Republic of Bulgaria).

## Field of science

2 of 7

/social sciences/economics and business/business and management/commerce  
 /humanities/languages and literature/languages - general  
 /engineering and technology/environmental engineering/waste management/energy efficiency

## Programme(s)

## Topic(s)


## Call for proposal

H2020-LC-SC3-EE-2018

## Funding Scheme

CSA - Coordination and support action

## Coordinator


**NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA**

Address	Activity type	EU contribution
Heroon Polytechniou 9 Zographou Campus 15780 Athina  Greece	Higher or Secondary Education Establishments	€ 299 156,25
<a href="#">Website</a>	<a href="#">Contact the organisation</a>	

## Participants (11)


**ABN AMRO BANK NV**

 Netherlands	
EU contribution	
€ 95 500	
Address	Activity type
Gustav Mahlerlaan 10 1082 PP Amsterdam	Private for-profit entities (excluding Higher or Secondary Education Establishments)

3 of 7

[Contact the organisation](#)



#### INSTITUTE FOR EUROPEAN ENERGY AND CLIMATE POLICY STICHTING

 Netherlands

EU contribution

€ 137 312,50

Address

Kingsfordweg 151  
1043 GR Amsterdam

Activity type

Research Organisations

[Contact the organisation](#)



#### JRC CAPITAL MANAGEMENT CONSULTANCY & RESEARCH GMBH

 Germany

EU contribution

€ 129 625

Address

Kurfurstendamm 186  
10707 Berlin

Activity type

Private for-profit entities  
(excluding Higher or  
Secondary Education  
Establishments)

[Contact the organisation](#)



#### GFT ITALIA SRL

 Italy

EU contribution

€ 80 562,50

Address

Via Sile 18  
20139 Milano

Activity type

Private for-profit entities  
(excluding Higher or  
Secondary Education  
Establishments)

[Contact the organisation](#)



#### CREARA CONSULTORES SL

 Spain

EU contribution

€ 126 125

Address

Activity type

4 of 7

Address

**Calle Velazquez, Num. 157  
Planta 5  
28002 Madrid**

Activity type

**Private for-profit entities  
(excluding Higher or  
Secondary Education  
Establishments)**

[Website](#)

[Contact the organisation](#)



**ADELPHI RESEARCH GEMEINNUTZIGE GMBH**

 Germany

EU contribution

**€ 70 437,50**

Address

**Alt-moabit 91  
10559 Berlin**

Activity type

**Research Organisations**

[Website](#)

[Contact the organisation](#)



**TRAPEZA PEIRAIOS AE**

 Greece

EU contribution

**€ 129 875**

Address

**4 Amerikis  
10564 Athina**

Activity type

**Private for-profit entities  
(excluding Higher or  
Secondary Education  
Establishments)**

[Contact the organisation](#)



**UNIVERSITY OF PIRAEUS RESEARCH CENTER**

 Greece

EU contribution

**€ 133 875**

Address

**Gr. Lampraki 122  
185 32 Piraeus**

Activity type

**Higher or Secondary  
Education Establishments**

[Website](#)

[Contact the organisation](#)



**SEVEN, THE ENERGY EFFICIENCY CENTER Z.U.**

 Czechia

EU contribution

**€ 119 815**

Address

**Americka 17  
12000 Praha**

Activity type

**Other**

[Contact the organisation](#)



#### **PUBLIC INVESTMENT DEVELOPMENT AGENCY**

 Lithuania

EU contribution

**€ 93 350**

Address

**Lukiskiu Str.2  
LT-01103 Vilnius**

Activity type

**Private for-profit entities  
(excluding Higher or  
Secondary Education  
Establishments)**

[Contact the organisation](#)



#### **NATSIONALEN DOVERITELEN EKOFOND**

 Bulgaria

EU contribution

**€ 70 562,50**

Address

**67 B Shipchenski Prohod Blvd  
1574 Sofia**

Activity type

**Public bodies (excluding  
Research Organisations and  
Secondary or Higher  
Education Establishments)**

[Contact the organisation](#)

**Last update:** 10 February 2020

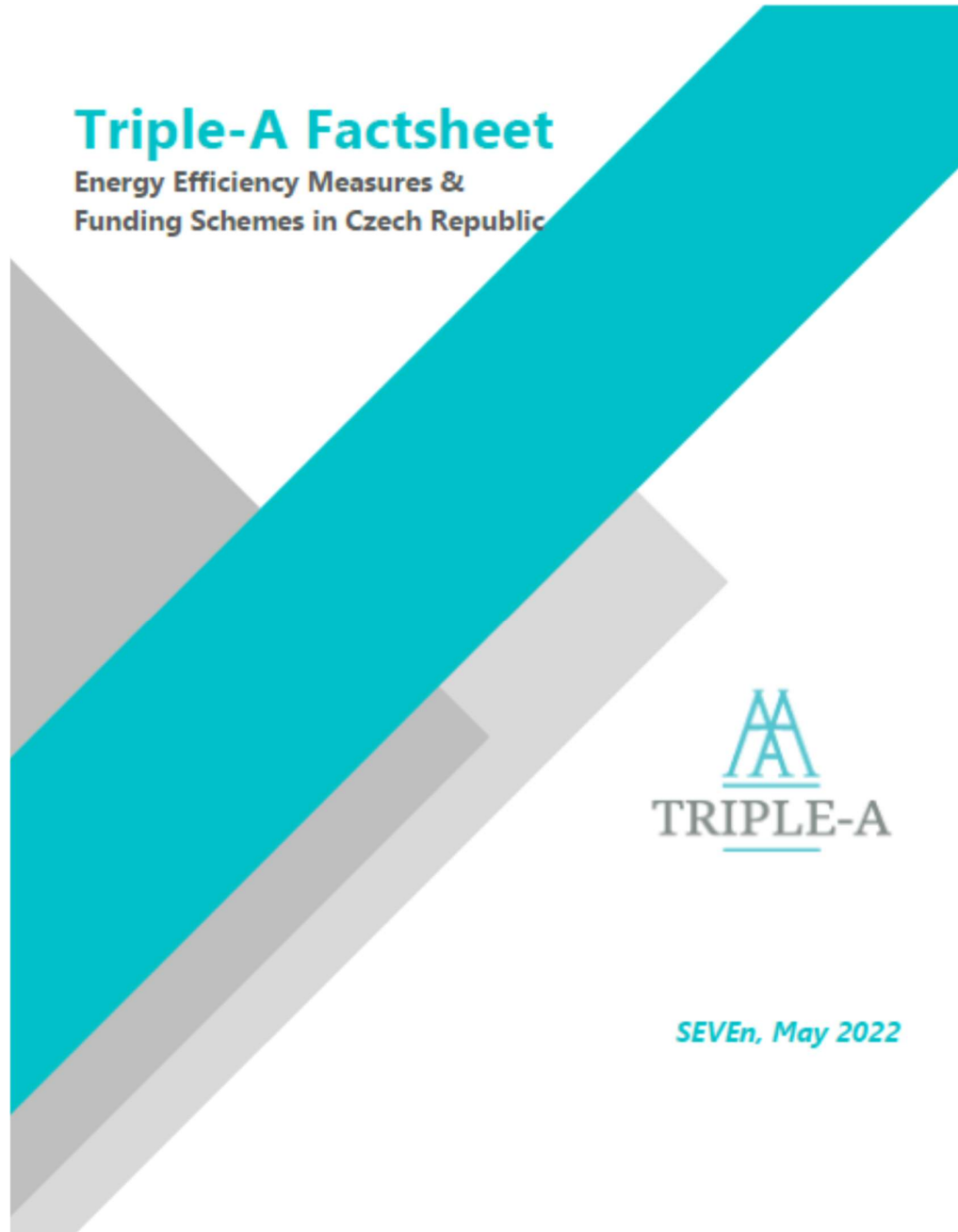
**Record number:** 223395

**Permalink:** <https://cordis.europa.eu/project/id/846569>

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## Annex D – Triple-A Case Study Factsheets

### The Czech Republic





## ENERGY EFFICIENCY MEASURES & FUNDING SCHEMES IN CZECH REPUBLIC

A series of scheme's fostering sustainable investments are available to the Czech Republic and businesses. In this section a general overview is provided listing the most relevant to the Triple-A project and the identified Czech cases. The amount and scope of sustainability scheme's that are available in the Czech Republic or are currently planned and that are targeted at the enhancement and uptake of energy efficiency investments is quite significant and major financial benefits are available to businesses (and citizens).

Various funds are funnelled towards increasing energy efficiency in the Czech Republic. Currently, the biggest allocations are allocated in Operational Programmes (i.e., EU ESIF funds); EU ETS via Modernization and Innovation Funds; COVID recovery fund; and various national sources.

### 1. Homeowners

#### *New Green Savings Programme 2021-2030*

New Green Savings Programme (NGS) is a follow up of a successful eponymous initiative. It adds the support for charging stations for electric cars or water heating using heat pumps on top of the former programme. NGS is funded primarily from the sale of emission allowances within the European Union Emissions Trading Scheme (EU ETS). The secondary source of funds comes from the National Recovery plan. NGS supports both family houses and apartment houses in all the Czech Republic.

### 2. Public and commercial

Incentive schemes for non-residential sector cover public and commercial building. While there is just one comprehensive programme (NGS) for the residential sector, different programmes cover numerous types of non-residential buildings.

#### *State programme to promote EE*

EFEKT programme administered by the Ministry of Industry and Trade supports small-scale investment projects (sub-program 1) and non-investment projects in the form of energy consulting, implementation of energy management, preparation of energy saving projects, events and documents to support energy savings (sub-program 2). Its current incarnation, EFEKT 3 covering years 2022-2027, focuses on investment and noninvestment aid for energy efficiency support measures.

The financial mechanism provides support for specific energy-saving measures with an emphasis on non-investment financial aid. EFEKT programme is financed solely by national funds.

#### *Operational Programmes*

In 2021 marked the end of the seven years' OP Environment and, at the same time, commencement of the new one tied with the upcoming EU budget period. Both old and new OP Environment have allocated significant funds for energy efficiency investments. The **OP Environment** is a backbone of energy efficiency support for the buildings in public sector in the country. Upcoming OP allocates CZK 3.3 billion (EUR 126 million).

The other grand **OP Technology and Applications for Competitiveness** (OP TAC) is under auspices of Ministry of Industry and Trade. Current OP design is still being discussed. However, energy efficiency is one of the sub objectives with considered allocation of up to CZK 13 billion (EUR 500 million) for commercial subjects (i.e., mainly enterprises). When compared with OP Environment, OP TAC covers more energy efficiency applications. On top of building renovations, technology upgrades are also eligible for support. Along with the grant schemes, there is also a loan support in the form of interest rate discount, a programme in preparation with the National Development Bank.



### 3. Mixed focus

#### Consultation Centres

EKIS Energy Consultation is a free service for the public that serves to support the introduction of energy savings and renewables. Funds are provided through the EFEKT programme

#### Modernisation Fund

Modernisation Fund, administered by the Environment Ministry, focuses generally on the generation and use of energy from renewable sources, energy efficiency and facilities for the accumulation and distribution of energy. It includes programmes supporting "Energy efficiency in public buildings and infrastructure" and "Community energy" (Energy communities). The Fund draws funds primarily from the monetisation of 2 % of the total number of emission allowances in the EU ETS system for the period 2021-2030.

#### National Recovery Plan

National Recovery Plan is a part of post-COVID investment action and includes measures for "Energy consumption reduction in the public sector" and "Building renovation and air protection" (incl. households). Specific calls are yet to be called.

#### Voluntary scheme

The voluntary scheme for improving energy efficiency is an alternative policy measure based on a voluntary arrangement between the State and stakeholders (energy distributors and / or energy sellers) to carry out end-consumer end-use activities aimed at reducing final energy consumption. Individual stakeholders will implement individual energy saving measures.

### 4. Status of national EE objectives as of 2021

Targets and commitments, Czech Republic till 2020		
Article 3 (non-binding)	Article 5 (obligatory)	Article 7 (obligatory)
Final energy consumption: 1,060 PJ	Final energy saving: 98.7 TJ	Yearly energy savings: 51.1 PJ
Primary energy consumption: 1,855 PJ	Cumulated savings: 204.4 PJ	
Meeting targets and commitments evaluation for 2014-2020 (on March 18, 2021)		
Final energy consumption: 1,057 PJ 100 %	Final energy saving: 97,1 TJ 98 %	Yearly energy savings: 44.5 PJ 87 %
Primary energy consumption: 1,679,5 PJ	Cumulated savings: 138.1 PJ	
110 %	68 %	

Source: Report on progress achieved towards national energy efficiency targets in the Czech Republic

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#### Conclusions

Overall energy intensity of the Czech economy decreases over time. In 2019 it went down 3.4% year-on-year to 364 GJ per CZK 1 million GDP or around 9.1 GJ per EUR million (based on ex. rate).

**Households** have lowered specific energy consumption 1.6% y-o-y to 69.7 GJ per household per year with absolute figure decreasing 0.8 % to 297.6 PJ in 2019.

**Transportation** sector showed modest growth of 1.8% in absolute terms in 2019 and an increase of energy efficiency marked by decreases in specific indicators of energy consumed per person/km and per car.

The same trend can be seen in **industry** with both GDP specific and production specific energy consumptions decreasing by 3.5 and 1.7% respectively. At the same time, absolute consumption fell by 2%.

Lastly, in **service sector**, both absolute and GDP specific, per employee, consumption rose by 2.1 and 1.2% to 2.7 PJ in total and 42.5 GJ per employee respectively in 2019.



The Triple-A project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 846569.



## Germany

# Triple-A Factsheet

Energy Efficiency Measures &  
Funding Schemes in Germany



*JRC, May 2022*

## ENERGY EFFICIENCY MEASURES & FUNDING SCHEMES IN GERMANY

The funding of planning, investment and operating costs related to energy efficiency (EE) helps to create a level playing field in the industrial, building and transport sector. Since the very beginning of the energy transition in Germany there have been various incentives and funding schemes.

### Measures in the industrial / commercial / service

#### 1. Federal Funding for Energy and Resources Efficiency in Industry and Commerce (Energie und Ressourceneffizienz in der Wirtschaft)<sup>1</sup>

The funding is aimed at all sectors and consists of six modules, each linked to a subsidy. The subsidised investment fields are defined as: High efficiency cross-sectoral systems; Process heat from renewable energies; smart energy and/or resource management systems; Individual energy and resource efficiency concepts; Decarbonisation; Funding competition for energy and resource efficient business processes.

#### 2. Federal Funding for Efficient Heating Networks (Wärmenetzsysteme 4.0.)<sup>2</sup>

The funding is provided for (a) the construction of new heating networks that draw large parts of their heat from sustainable and renewable energy sources or unavoidable waste heat and (b) the decarbonisation of existing heating networks. This funding is mostly relevant for communities and communal companies. The scheme is divided into four modules that correspond to the project phases of heating network construction and conversion.

#### 3. Federal grants for stationary cooling and air condition systems (commercial usage)<sup>3</sup>

These funds will be used to acquire (a) new stationary refrigeration, air-conditioning, and heat pumps that employ non-halogenated refrigerants and other climate-friendly features, as well as (b) new air-conditioning systems for electric buses and rail cars and the retrofitting of non-halogenated refrigerant air-conditioning systems in rail vehicles.

#### 4. KfW Energy Efficiency Program for Production Facilities/Processes<sup>4</sup>

Corporates can apply for promotional financing from KfW for EE investments in manufacturing facilities and commercial processes. Heat recovery, waste heat use, combined heat and power plants, energy efficiency in manufacturing plants, and control technologies are all included in the program. Only new investments or modernizations that result in pre-determined energy reductions are eligible for funding.

<sup>1</sup> <https://www.deutschland-macht-effizient.de/KAENE/Redaktion/DE/Dossier/anlagentechnik.html>

<sup>2</sup> [https://www.bafa.de/DE/Energie/Energieeffizienz/Waermenetze/waermenetze\\_node.html](https://www.bafa.de/DE/Energie/Energieeffizienz/Waermenetze/waermenetze_node.html)

<sup>3</sup> [https://www.bafa.de/DE/Energie/Energieeffizienz/Klima\\_Kaeltetechnik/Klima\\_Kaeltetechnik\\_node.html?sessionid=2F15F2E5A016802A659FFC6EE2F9086B2\\_cid362](https://www.bafa.de/DE/Energie/Energieeffizienz/Klima_Kaeltetechnik/Klima_Kaeltetechnik_node.html?sessionid=2F15F2E5A016802A659FFC6EE2F9086B2_cid362)

<sup>4</sup> <https://www.kfw.de/inlandsfoerderung/Unternehmen/Energie-Umwelt/F%C3%B6rderprodukte/EE-Produktion-292/?redirect=601600>



## 5. Additional funds for the decarbonisation of industry program (carbon contracts for difference)

The Federal Government will expand the pilot system for carbon contracts for difference as part of its industrial decarbonization initiative. Carbon contracts help mitigate the higher operating costs of low- and zero-emission processes.

### Measures in the buildings sector

#### Federal Funding for Energy Efficient Buildings (Bundesförderung für effiziente Gebäude)<sup>5</sup>

This program promotes a variety of funding options and was created to help the building sector transition to a climate-neutral building stock by 2050. The plan is aimed at homes, corporations, and municipalities, with homeowners being able to apply for residential building subsidies, corporations for non-residential building subsidies, and municipalities for both. The funds will be used to implement single measures in existing buildings as well as to renovate or create a new energy efficient building. The subsidies can be used in the form of a low-interest KfW loan with repayment assistance or as a one-time investment subsidy.

### Measures in the transport sector

#### 1. Federal Funding for Energy Efficiency in Electric Rail Transport (Energieeffizienz des elektrischen Eisenbahnverkehrs)<sup>6</sup>

Railway firms that invest in technologies and steps to improve the efficiency of electric transport capacity are eligible for funding (e.g., new converter technologies, implementation of network driver assistance systems and regenerative power supply). The financing amount is determined by the EE improvement of the offered electrical transportation service and is limited to a maximum of 50% of the qualifying investment expenses.

#### 2. Federal funding for sustainable modernisation of inland and coastal vessels<sup>7</sup>

Both the inland vessel and coastal vessel subsidy schemes attempt to reduce emissions and energy consumption associated with vessels. Modernization of vessels by engine replacement, hydrodynamic or propulsion improvements. Measures that cut energy consumption by at least 10% are eligible for financing. The subsidy covers up to 30% of the investment expenses for coastal vessels and up to 90% of the eligible additional investment expenditure for inland vessels.

<sup>5</sup><https://www.deutschland-machts-effizient.de/KAENE/Redaktion/DE/Dossier/beq.html>

<sup>6</sup><https://www.kfw.de/inlandsfoerderung/BundesPK33B6denung-PK33BCr-effiziente-Geb%C3%A4ude/>

<sup>7</sup>[https://www.bay.bund.de/DE/4\\_Foerderprogramme/93\\_Energieeffizienz\\_Eisenbahnverkehr/Energieeffizienz\\_Eisenbahnverkehr\\_node.html](https://www.bay.bund.de/DE/4_Foerderprogramme/93_Energieeffizienz_Eisenbahnverkehr/Energieeffizienz_Eisenbahnverkehr_node.html)

<sup>8</sup><https://www.foerderdatenbank.de/FDB/Content/DE/Foerderprogramm/Bund/BMVI/nachhaltige-modernisierung-von-binnenschiffen.html>

<sup>9</sup><https://www.foerderdatenbank.de/FDB/Content/DE/Foerderprogramm/Bund/BMVI/nachhaltige-modernisierung-kuestenschiffe.html>

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#### Conclusions

*Germany's energy sector is experiencing a significant overhaul at the moment. Aside from the shift to renewable energies for power generation and fuel replacement, EE is critical to the transition to a green energy economy. The role of EE policies to Germany's green energy system transformation was detailed in this briefing note. The current EE policy framework in Germany was discussed, as well as the planned advancements outlined in the Federal Government's most recent National Energy Efficiency Action Plan, which aims to save significant amounts of money by 2030-2050. As a result, EE is a critical component in Germany's efforts to regulate energy demand and keep it at a level where the necessary generation and infrastructure can be provided.*



The Triple-A project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 846569.



## Spain

# Triple-A Factsheet

Energy Efficiency Market Architecture &  
Policy Framework:  
The Spanish Case



*Creara, May 2022*



## ENERGY EFFICIENCY MARKET ARCHITECTURE & POLICY FRAMEWORK: THE SPANISH CASE

The Energy Efficiency (EE) sector in Spain has been revolutionised in recent years from a position of irrelevance within the energy sector to one of the central axes of national climate policy.

A high level of EE is essential if we intend to maintain the standard of living associated with our current energy consumption without further contributing to the worsening of the climate crisis.

EE is also an essential ally in reducing external energy dependence in Europe, a problem that has proved pressing at the start of 2022, with Russia's invasion of Ukraine.

### *PNIEC (Spanish Integrated Energy and Climate Plan)*

The most notorious effort, from which many smaller initiatives draw, is the PNIEC (Plan Nacional Integrado de Energía y Clima). Its final version was approved in March 2021, and it will cover the period from 2021 to 2030 in terms of climate action for Spain. The main objectives are:

- A 23% reduction in greenhouse gas (GHG) emissions compared to 1990 scenario.
- Increase to 42% of renewables in the final use of energy.
- Improvement of energy efficiency by 39.5%.
- Increase up to 74% of renewable energy in electricity generation.

### *Public Financing Instruments*

Flowing from the PNIEC, more specific programmes are being launched in order to achieve a higher level of energy efficiency in specific sectors.

In the case of **sustainable mobility**, there are the **MOVES<sup>1</sup>** programmes, these programmes will finance the purchase of electric and plug-in hybrid vehicles such as cars, vans or motorbikes, as well as the purchase and installation of public and private access, charging infrastructures. The MOVES, which together consist of 4 different programmes targeting different sustainable mobility objectives, are financed with up to **850 million euros**.

In the **building energy renovation sector**, which due to its overall volume of energy consumption has a significant impact on the average EE level in Spain, the PREE<sup>2</sup> programmes have recently been started. These aids are arranged along two lines, one more generic and the other aimed at directing funding to areas considered to be of "demographic challenge", that is highly depopulated areas with no industry or strong economic activities. Altogether, they have **350 million euros in funding**.

<sup>1</sup> [MOVES Programme](#)

<sup>2</sup> [PREE Programme](#)

The Ministry for Ecological Transition and the Demographic Challenge (MITECO) has opened two calls for pilot projects for **energy communities**<sup>3</sup>, with a budget of **40 million euros**, which will promote social innovation and citizen participation in renewables, EE and electric mobility. These are two of the first calls for proposals under the “Strategic Project for the Recovery and Economic Transformation of Renewable Energies, Renewable Hydrogen and Storage” (PERTE ERHA) and are expected to enable the implementation of around **40 renewable energy, electric mobility and demand-side management projects for local communities**.

The current Spanish government's approach is to combine environmentally sustainable energy initiatives with the fight against rural depopulation and other demographic challenges. In this way, several programmes have been developed to promote environmentally sustainable investments in areas considered to be of “demographic challenge”.

This is the case of the **DUS 5000**<sup>4</sup> programme with a fund of **75 million euros**. This aid may cover up to 85% of the necessary investment in projects promoted by town councils and other public bodies in municipalities with less than 5,000 inhabitants. **Subsidies** will be granted for projects aimed to improving EE in **public buildings** and **infrastructures**, promoting green investments -in particular **self-consumption**, or **charging infrastructures for Electric Vehicles (EV)**, among others.

### *The case of the building sector*

The building sector has proven throughout the Triple-A project to be one of the main pillars of the energy efficiency sector, accounting for the majority of the Triple-A projects identified. Today, buildings as a whole are responsible for 40% of the EU's energy consumption and 36% of greenhouse gas emissions, mainly generated during their construction, use, renovation and demolition<sup>5</sup>. These data show the immense potential for energy interventions in buildings.

In Spain, the **Technical Building Code** has been in force since 2006. This document is the regulatory framework that establishes the basic quality requirements to be met by buildings and their installations. In particular, it contains the Basic Document on Energy Saving, which establishes the basic energy efficiency and renewable energy requirements that must be met in new buildings and in interventions on existing buildings. Therefore, it is the reference regulation to be considered when carrying out energy efficiency projects in buildings, such as several of the Triple-A projects identified in Spain.

The Basic Document on Energy Saving is divided into the following parts, each with its corresponding requirements and quality standards:

- Basic requirement HE0: Limitation of energy consumption
- Basic requirement HE1: Conditions for the control of energy demand

<sup>3</sup> [Energy Communities initiative](#)

<sup>4</sup> [DUS5000 Programme](#)

<sup>5</sup> [European Commission – In focus: Energy Efficiency in buildings](#)

- Basic requirement HE2: Conditions of thermal installations
- Basic requirement HE3: Conditions for lighting installations
- Basic requirement HE4: Minimum contribution of renewable energy to cover hot water demand
- Basic requirement HE5: Minimum electrical energy generation

The modification of the Technical Building Code is currently being processed to adapt it to the provisions of Directive (EU) 2018/844, which amends Directive 2010/31/EU on the energy performance of buildings and Directive 2012/27/EU on EE.

Likewise, the approval of Royal Decree 244/2019, of 5 April, which regulates the administrative, technical, and economic conditions for the self-consumption of electrical energy allows for the extension of the scope of application of the basic requirement HE5 relating to the minimum generation of electrical energy.

In the field of **photovoltaic** self-consumption in buildings, according to the latest document published by the Spanish government, the "Roadmap for Self-consumption in Spain". It is expected to reach between 9,000 and 14,000 MW of installed electricity capacity for self-consumption in Spain.

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### Conclusions

The main conclusions drawn about the national architecture of the energy efficiency market in Spain are detailed below:

- **Energy efficiency** has rapidly become a **top priority** both in climate action and in reducing external energy dependence.
- The objectives of the different administrative levels (EU, national, regional, and municipal) are aligned, and **initiatives are being implemented** at all levels.
- At the **Spanish level**, highly ambitious goals have been set, but they are backed by massive funding lines and strong support from the public sector.

A further comparison between the participating Triple-A countries is provided in the European Synthesis paper, while the **Spanish Synthesis paper**<sup>6</sup> details the regulation, market architecture and policy framework applicable to the identified cases.



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<sup>6</sup> <https://aaa-h2020.eu/sites/default/files/reports/D6.3%20Triple-A%20Synthesis%20Paper%20for%20each%20case%20study.pdf>



## Greece

# Triple-A Factsheet

Energy Efficiency Measures &  
Funding Schemes in Greece



*UPRC & NTUA, May  
2022*

### Energy efficiency goals for 2030

The Energy Efficiency targets for Greece towards 2030 are:

- Final energy consumption should be reduced by 38% compared to 2017 in all economic sectors (industry, transport, business, household)
- Annual target of 0.8% of new savings compared to the last three years

### Energy Efficiency Measures & Funding Schemes

**Innovative and dedicated financing instruments** have been designed in Greece to promote energy services more broadly and exploit the untapped potential for energy savings in specific sectors. The new financing instruments to be implemented will contribute primarily to the effective use of potentially available resources for improving energy efficiency and reducing carbon dioxide emissions.

#### Public Financing Instruments

To increase energy savings through improved energy efficiency in the different sectors of activities, and mainly the building sector, the Greek government has announced related programmes for subsidising the cost of investments for energy savings. More particularly, incentives are provided for energy-saving interventions in the residential building sector in the context of the transition to an "Energy Efficient Home", while improving the energy efficiency of public buildings through Energy Performance Contracts and generally through Public-Private Partnerships is also promoted through specific programmes. In addition, financing programmes supporting private companies for energy-efficient renovations of buildings and their operating procedures and the implementation of infrastructure projects in the field of road and rail transport are also in place.

A summary of public financing instruments is listed below:

1. **National Energy Efficiency Fund** - €1700 mil. for residential and commercial buildings
2. **"New Saving at home 2021"** - €632 mil. for residential buildings
3. **"Eksikonomo-Aytonomo"** - €900 mil. for residential buildings
4. **ELEKTRA programme (2019 – 2025)** – €500 mil. for public buildings
5. **"Saving in the public sector"** - €200 mil. for public buildings and street lighting
6. **"Saving for Businesses"** - €947.5 mil. (€450 mil. from the Recovery and Resilience Fund and 497.5 mil. € from the private sector)
7. **"Kinoume Ilektrika"** – 45.8 mil. € for the transport sector
8. **Partnership Agreement for the Development Framework 2021-2027**
9. **European Local Energy Assistance (ELENA)**
10. **Tendering procedures**
11. **Tax incentives**



### Private Financing Instruments

Greek Banks appear to have great interest in providing **Green Loans** and **sustainable debt products** to **end customers, SMEs**, and other **legal entities** in the private financing sector. According to the banks' corporate presentations to investors, the largest Greek Banks have a well-planned baseline scenario with **new green financing products** and options. Many Greek banks have already financed **green and social investments** and have designed relevant financing products, also incorporating the principles of **ESG financing** into their corporate transformation. Furthermore, green corporate bonds have become popular in the last several years, while several green corporate bonds have been issued by companies and the Greek Government, triggering an immediate response from the Greek private sector.

### Stakeholders' Perspectives for the Triple-A Contribution to Energy Efficiency Financing in Greece

Relevant feedback received from stakeholders during the Greek Capacity Building Webinar<sup>1</sup> and Regional Training Workshop<sup>2</sup> is summarised below:

- Although **Triple-A** proposes "simple" steps towards mainstreaming energy efficiency financing, these steps are **missing from the scope of energy efficiency project assessments** and are, therefore, a huge opportunity for companies and financial institutions to improve upon, especially when considering the upcoming legislation changes.
- The new technical directive of the **Technical Chamber of Greece** in cooperation with the **Hellenic Ministry of Environment and Energy** on the economic evaluation of energy investments takes into account what Triple-A examines, i.e., the **EU Taxonomy, ESG criteria** and the need for information homogenisation in the field of energy efficiency financing.
- The Triple-A project could **support municipalities** by indicating which energy efficiency project ideas could be included in **Sustainable Energy Action Plans** and facilitating the procedure of financing matchmaking.

More information on the energy efficiency policy and market framework in Greece is available in the report *Triple-A Synthesis Paper for each case study*<sup>3</sup>.

<sup>1</sup> <https://aaa-h2020.eu/index.php/capacity-building-webinars/triple-capacity-building-webinar-greece>

<sup>2</sup> <https://aaa-h2020.eu/index.php/regional-training-workshops/triple-regional-training-workshop-greece>

<sup>3</sup> <https://aaa-h2020.eu/sites/default/files/reports/D6.3%20Triple-A%20Synthesis%20Paper%20for%20each%20case%20study.pdf>

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### Conclusions

Greece has recently started to put more attention in energy efficiency and embracing the green and digital transition. Energy efficiency prioritisation is also due to the country's high dependency on energy imports, the uprising energy prices, and the increased pollution in its big cities, mainly in the capital of Athens. The Greek government has developed strategic plans to increase energy efficiency rates to tackle climate change and make the building stock as energy efficient as possible. A multitude of public and private financing instruments have been designed and are available for the implementation of energy efficiency investments, especially in the building sector. According to stakeholder perspectives, Triple-A outcomes can contribute to the assessment of energy efficiency investments with a view to mainstreaming their financing in Greece.



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## Italy

# Triple-A Factsheet

Energy Efficiency Measures &  
Funding Schemes in Italy



*GFT Italia, May 2022*

## ENERGY EFFICIENCY MEASURES & FUNDING SCHEMES IN ITALY

Compared to some of the other Triple-A case study countries' governments, the Italian government is only recently starting to pay more attention to renewable energy and energy efficiency. With the launch of the Next Generation EU (NGEU) program in 2020, the EU provided a huge number of financial resources to accelerate the growth, channeling significant resources to countries such as Italy which, although characterized by levels of GDP in line with the EU average, have recently suffered from low economic growth and high unemployment<sup>1</sup>.

### Energy Efficiency goals for 2030 and 2050

The Italian document related to the energy and climate transition is the Piano nazionale integrato per l'energia e il clima per gli anni 2021-2030 (PNIEC). Regarding the EE goals for 2030, there are several objectives to be achieved, all deriving from European legislation. The first consists in the reduction by 2030 of the European primary energy requirements by 32.5%, calculated with respect to the projections drawn up by the EC in 2007 with the PRIMES scenario. It is expected that Italy will achieve a reduction of 43%, calculated in the same way<sup>2</sup>. The electrification of the primary energy system, in the perspective of total decarbonisation by 2050, will have to exceed 50%. It will therefore be necessary to aim for an acceleration of the development of the electricity carrier compared to the 22% share reached in 2018 (it was 17% in 1990) thanks to a marked growth in the transport sector and buildings, with a greater diffusion of heat pumps.

### Policy framework, incentives & schemes

#### National guidelines for the energy certification of buildings

The decree for the adaptation of the national guidelines for the energy certification of buildings describes the Guidelines and the means of connection between the State and the Regions for the preparation of Energy Performance Certificates (APE) and introduces the constraint for the Regions and Provinces to establish control plans and procedures<sup>3</sup>.

#### White Certificates

Also known as "Energy Efficiency Certificates", White Certificates<sup>4</sup> are negotiable securities that certify the achievement of energy savings in the final uses of energy through interventions and projects to increase EE. They are the main incentive mechanism for EE in the industrial sector, network infrastructures, services and transport, but also concern interventions carried out in the civil sector and behavioural measures.

#### Conto Termico

<sup>1</sup> <https://www.governo.it/sites/governo.it/files/PNRR.pdf>

<sup>2</sup> <https://temi.camera.it/Meg18/post/la-proposta-italiana-di-piano-nazionale-per-l-energia-e-il-clima.html>

<sup>3</sup> [https://www.mise.gov.it/images/stories/normativa/DM\\_Linee\\_guida\\_APE.pdf](https://www.mise.gov.it/images/stories/normativa/DM_Linee_guida_APE.pdf)

<sup>4</sup> <https://www.gse.it/servizi-per-te/efficienza-energetica/certificati-bianchi>



The Conto Termico<sup>5</sup> encourages interventions to increase EE and the production of thermal energy from renewable sources for small plants. The beneficiaries are mainly public administrations, but also companies and individuals, who will be able to access funds for 900 million euros per year, of which 200 for public administrations.

#### Italian National Recovery and Resilience Plan (PNRR)

Loans at a subsidised rate of 200 million euros were announced under the Kyoto fund for the energy upgrading of school buildings, sports facilities, and publicly owned health facilities. The implementing decree of the new Kyoto fund, published in the Gazzetta Ufficiale on Saturday 24<sup>th</sup> April 2021, provides for loans at an interest rate of 0.25% for a maximum duration of the loan of twenty years.

The projects presented must ensure an improvement in the building's EE parameter of at least two energy classes. EE interventions such as the replacement of systems, the installation of heat pumps, the replacement of windows, the construction of the thermal coat, as well as water saving, and efficiency measures are eligible for financing.

#### Energy Efficiency National Fund

Together with reforms, Italy has introduced numerous financial incentives aimed at increasing the attractiveness of the country as a Foreign Direct Investments (FDIs) destination, encouraging R&D operations, supporting industrial crisis areas, and fostering the growth of new innovative enterprises. To increase the EE the Energy efficiency National Fund has been adopted<sup>6</sup>. The fund has a budget of € 310 MLN and supports EE investments on buildings, plants, and production processes (district heating and cooling networks, cogeneration and trigeneration plants).

#### Superbonus

The Superbonus<sup>7</sup> is the tax relief governed by Article 119 of Law Decree no. 34/2020 (Relaunch decree), which consists of a 110% deduction of the expenses incurred starting from 1 July 2020 for the implementation of specific interventions aimed at EE and static consolidation or the reduction of the seismic risk of buildings. The facilitated interventions also include the installation of photovoltaic systems and infrastructures for charging electric vehicles in buildings.

Table 1: Policy frameworks, incentives, and schemes relation to Triple-A sectors

Policy frameworks, incentives & schemes	Triple-A sectors
<i>National guidelines for the energy certification of buildings</i>	Buildings
<i>White Certificates</i>	Industry, Outdoor Lightning
<i>Conto Termico</i>	Industry
<i>Italian National Recovery and Resilience Plan (PNRR)</i>	Buildings, Industry, Transportation, District Energy Networks, Outdoor Lightning,
<i>Energy Efficiency National Fund</i>	Buildings, Industry
<i>Superbonus</i>	Buildings

<sup>5</sup> <https://www.gse.it/servizi-per-te/efficienza-energetica/conto-termico>

<sup>6</sup> <https://www.mise.gov.it/index.php/it/energia/efficienza-energetica/fondo-nazionale-efficienza-energetica>

<sup>7</sup> <https://www.agenziaentrate.gov.it/portale/web/guest/superbonus-110%2>

#### TRIPLE-A IN BRIEF

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#### Conclusions

*To stay in line with European objectives towards 2030 and 2050 for EE and decarbonisation, Italy has set up different measures in terms of policy frameworks, incentives, and schemes in different sectors.*

*The Italian plan proposes projects in the European flagship areas. The most comprehensive form of financing provided by Italy is the National Recovery and Resilience Plan (PNRR). Italy has also provided other policy framework, incentives and schemes which directly relate to the Triple-A sectors, such as the White Certificates, the Conto Termico, the Energy Efficiency National Fund and finally the Superbonus, which consists of a 110% deduction of the expenses incurred starting from 1 July 2020 for the implementation of specific interventions aimed at EE and static consolidation or the reduction of the seismic risk of buildings. All the aforementioned measures will contribute to favor a green and just transition focus on integrated long-term goals and strategies for a more resilient and fairer economy.*



The Triple-A project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 846569.





## Lithuania

# Triple-A Factsheet

Energy Efficiency Measures &  
Funding schemes in Lithuania



*VIPA, May 2022*

## ENERGY EFFICIENCY MEASURES & FUNDING SCHEMES IN LITHUANIA

The highest priority for the Government of Lithuania in the area of energy policy is increasing the energy independence of Lithuania. The cornerstones in achieving the energy independence are enhancing energy efficiency together with transition to the Renewable Energy Sources. A series of respective measures fostering sustainable investments are available in Lithuania for public and businesses sectors.

### Measures in Building Sector

#### The programme for modernization of multiapartment buildings

The objective of the programme<sup>1</sup> is to encourage the owners of the multiapartment buildings constructed according to technical requirements in force before 1993 to modernise these building in order to increase its energy efficiency.

The programme comprises providing preferential loans, grants and other support schemes to owners of the apartments and other premises, as well as encouragement the owners to implement energy efficiency measures.

#### Public buildings energy efficiency programme

The objective of the programme<sup>2</sup> is to increase energy efficiency for heating and lighting of public buildings, reductions of greenhouse gases (CP2) released to atmosphere, ensure the conformity to the hygiene standards in public buildings infrastructure.

The programme comprises providing preferential loans, grants and other support schemes. The basic requirement for the modernisation of the public building is that the building after modernisation have to reach the energy efficiency which corresponds to the efficiency not lower than class C.

#### Heating boiler replacement with more effective technologies

The objective of this financial programme<sup>3</sup> is to encourage private households to replace old and ineffective heat production equipment to the ones using more effective technologies producing energy from renewable sources.

The programme envisages grant of 50 percent of the investments of the households used for replacing ineffective heating boilers to modern ones using a more effective technology. It is expected that by 2030 50 000 heating boilers will be replaced and other measures of increasing energy efficiency will be implemented.

#### Modernisation of heating and hot water systems of multiapartment buildings

The measure is funded under the Climate change programme<sup>4</sup>. The objective of the measure is to encourage the owners of the multiapartment buildings constructed according to technical requirements in force before 1993 to modernise heating and hot water systems. The programme envisages grant to the owners of such buildings of 30 percent of investment costs.

#### Renovation of single-family houses

The measure is funded under the Climate change programme. The objective of the measure is to encourage the owners of the single-family houses to renovate their houses in order to increase its energy efficiency. The programme envisages compensation of up to 30% of renovation expenses contributing to increased energy efficiency.

<sup>1</sup> <https://www.e-tar.lt/portal/en/legalAct/TAR.AE67B6739526/ujl8xmRhkZq>

<sup>2</sup> <https://e-seimas.lrs.lt/portal/legalAct/lt/TAD/f5a87b30793311e4a8a7b07c53dc637c/asr>

<sup>3</sup> [https://www.esinvesticijos.lt/lt/finansavimas/patvirtintos\\_priemones/katilu-keitimas-namu-ukiuose](https://www.esinvesticijos.lt/lt/finansavimas/patvirtintos_priemones/katilu-keitimas-namu-ukiuose)

<sup>4</sup> <https://www.apva.lt/en/national-investments/climate-change-program/>

## Measures in Industry Sector

### Energy efficiency increasing in business entities

The objective of the support mechanism envisages funding of implementation of energy efficiency measures in Lithuanian business entities by providing subsidies for energy savings achieved.

The subsidies under the programme are provided for implementation of the energy efficiency measures listed in the energy audits of the entities in the area of transport, technological processes and buildings (automation equipment, lighting modernisation, installation of air pressure systems, modernisation of cooling systems, installation of high efficiency electric engines and other measures).

### SPEI (services of public economic interest) relief for industry

The objective of the support mechanism is to provide funding for the implementation of the energy efficiency measures in large industry entities, where annual energy consumption exceeds 1 GWh.

Under the programme the measures provided in respectful energy audits will be implemented in the area of transport, technological processes and buildings (automation equipment, lighting modernisation, installation of air pressure systems, modernisation of cooling systems, installation of high efficiency electric engines and other measures).

## Measures in Transportation Sector

### The renewal of urban and local area public transport vehicles

Urban public transport modernisation with the aim of increasing of energy efficiency public transport vehicles by purchasing of 150 electric powered urban and local area buses.

It is planned that procurement of electric powered buses will be performed during 2023 – 2025 using the European Union funding.

### Railway electrification

The objective of the programme – modernisation of the railway infrastructure - electrification of the 814 km of railway which transports 70% of all railway cargo in the country. The programme envisages purchasing of 30 new electric powered trains and 50 electric powered locomotives, laying electrical lines and electric stations. The electric powered trains are planned to be purchased during 2023 – 2025 using EU funding.

### Implementation of Urban sustainable mobility plans

The objective of the Urban sustainable mobility plans is to establish measures to reduce the use of personal vehicles and encourage walking, cycling, use of public transport and vehicles powered by alternative fuel.

The measures envisaged in Urban sustainable mobility plans will contribute to reduction of the use of personal transport vehicles and increasing of the attractiveness, competitiveness and the use of alternative means of transportation. The most important measures included are modernisation of public transport, development of cycling and pedestrian infrastructure, implementation of mobility management systems, implementation of alternative fuel infrastructure.

#### Promotion of the use of electric powered vehicles

The measure is funded under the Climate change programme<sup>5</sup>. Objective of the measure is achieving that by 2025 10% of annual transactions concerning purchasing personal vehicles (new registrations and secondary registrations) would be related to electric powered vehicles and by 2030 that number would reach 50%.

The measure envisages subsidising of purchase of electric powered vehicles: EUR 4000 for a new vehicle and EUR 2000 for a used vehicle up to 5 years old.

#### Promotion of purchasing of vehicles with reduced pollution

The measure is funded under the Climate change programme. The objective of the measure is to achieve that the energy efficiency of newly purchased vehicles during 2020 – 2030 would increase by 42%. The financial incentives will be proposed to 4,8% of the purchasing transactions. The amount of financial incentive – EUR 1000.

### Measures in Outdoor Lighting Sector

#### Modernisation of outdoor lighting systems

The measure is aimed at municipalities and municipal entities implementing outdoor lighting modernisation projects. The objective of the programme is to replace 25% of all outdoor lighting units i.e., 65.000 units by year 2030. As a result of the programme not less than 40% or 0,11 TWh of the electric energy used for outdoor lighting is expected to be saved by 2030. In the framework of the programme, it is envisaged to replace old outdoor lamps of low efficiency, cables and other equipment.

<sup>5</sup> <https://www.apva.lt/en/national-investments/climate-change-program/>



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#### Conclusions

*Energy efficiency sector is of very high priority in Lithuania. There are numerous strategic documents shaping the future of Lithuania's energy sources and needs, the most important of which are National Energy and Climate Action Plan for 2021 – 2030, National Energy Independence Strategy and Climate Change programme. The Energy efficiency is also regulated by Lithuanian Laws such as the Law on Energy and the Law on Increasing Energy Efficiency.*

*The main strategic directions for achieving energy efficiency are increasing energy independence, transition to renewable energy sources, decreasing the energy consumption by implementing the modern low energy technologies etc.*

*Energy savings are supported by numerous funding opportunities as grants and financial instruments provided by national as well as EU funds.*



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## The Netherlands

# Triple-A Factsheet

Energy Efficiency Market  
Architecture & Policy Framework:  
The Dutch Case



*IEECP, May 2022*



## ENERGY EFFICIENCY MARKET ARCHITECTURE & POLICY FRAMEWORK: THE DUTCH CASE

Regulatory forces, market architecture, and the policy framework related to the energy efficiency investments in the Netherlands are considered from the perspective of the Triple-A identified and certified project cases and are put central by matching them to provide a hands-on example of effective energy efficiency financing in the Dutch context.

4 out of the 23 identified cases withstood the stress tests of the projects Assess, Assign and Agree Tools and of those all fell in Triple-A sector categories (1) **Buildings**, (2) **Industry**, and (3) **Transportation**, with one also touching on (4) **District Energy Networks**. The 23 cases combined required an initial investment of €65,5M and would offer an average annual energy savings of €3,5M.

### National context

The Dutch government stimulates sustainable energy uptake and investments and acts strongly towards the **transition to a sustainable future**. This is clearly reflected in the scope and **number of sustainability schemes** available for Dutch businesses and citizens. Together, these schemes provide significant **financial benefits** and **foster larger energy efficiency investments** at an increased pace and are accompanied by increasingly stricter law- and regulations that, generally, go well beyond that of EU regulation.

**Fossil fuels**, especially **natural gas**, are less available in the Netherlands and the government is emphasizing on this matter by transitioning towards fossil fuel free housing at a rapid pace, while setting strict rules for industrial consumption. The strategy is to **transition to 100% sustainable energy** through a step-by-step process by 2030, and 70% of all electricity being generated in a sustainable way and in 2050 virtually all energy needs coming from sustainable sources and CO<sub>2</sub> neutral.

Two of the most present monitoring and regulations, as well as available incentives that foster sustainable investments are given:

### Monitoring & Regulation

#### (1) The Energy Efficiency Notification obligation

Under the Dutch Environmental Management Activities Decree, organisations that use 50,000 kWh of electricity or 25,000 m<sup>3</sup> of natural gas (or an equivalent) or more per year are obliged to take energy-saving measures with a payback period of 5 years or less. The Decree requires organisations in the Netherlands to save energy. The Dutch government has issued a **Recognised Energy Efficiency Measures List (EML)** for 19 business sectors and contains the energy efficiency measures that are accepted as energy saving measures. Organisations that do not report on time may be penalised financially in the form of a non-compliance penalty.

#### (2) National Inventory Entity

The Netherlands has one National System for monitoring and reporting greenhouse gases for the United Nations Convention of Climate Change (UNFCCC), the Kyoto Protocol, and the European Union (EU) monitoring obligations. The National System assures the quality of annual inventory reports. The core of this National System is the PRTR (in Dutch: emissieregistratie, ER). The PRTR holds one national dataset for emissions inventories covering some 350 air, water, and soil pollutants and is coordinated by the RIVM.

It is important to stress that by no means are the two monitoring and regulation frameworks listed above the entirety of the Dutch situation regarding the applicable rules and regulations impacting or fostering energy efficiency investments in the Netherlands with many more critically important rulesets at play depending on the case context.

### Incentives and Schemes fostering Sustainable investments

#### (1) Environmental investment deduction (MIA) and Arbitrary depreciation of sustainable investments (Vamil)

Via the MIA and Vamil businesses can benefit from a tax deduction and/or arbitrary depreciation of their investments. The MIA allows companies to deduct up to 36% of the investment costs for an environmentally friendly investment on top of their regular investment tax deductions, and with the Vamil, businesses can decide when to write off 75% of these costs. The investments that apply for this scheme are provided in the EML.

#### (2) Energy Investment Allowance (EIA)

EIA is a tax deduction for energy-efficient technologies and sustainable energy investments. The calculated average tax reduction is 11% plus the reduction of the overall energy bill resulting from the investment. The EIA is a scheme targeted at companies, not at private individuals, associations, or foundations. Businesses can receive a tax deduction on clearly defined investments (specific) and for tailor-made investments (generic) that result in substantial energy savings and can deduct 45.5% of the investment costs from the taxable profit. This is possible on top of their usual depreciation. Companies can also get a deduction for customised investments resulting in substantial energy savings, but which are not on the EML. In this case, the investment must meet the defined savings standard.

As a general takeaway: the comparative number and scope of sustainability scheme's available and/or planned to target the enhancement and uptake of energy efficiency investments is significant and major financial benefits are available to businesses (and citizens), and readers are encouraged to explore further options presented in the Triple-A Dutch Synthesis report<sup>1</sup>.

<sup>1</sup><https://aaa-h2020.eu/sites/default/files/reports/D6.3%20Triple-A%20Synthesis%20Paper%20for%20each%20case%20study.pdf>

### TRIPLE-A IN BRIEF

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### Conclusions

To draw some main conclusions from these cases and to put them in the Dutch context:

1. The Netherlands proves to have a **favorable climate for EE investments** shown by the large number of schemes available to enhance the uptake of EE investments.
2. The policy and regulation framework that is in place **supports the introduction of EE measures** through the alleviation of market barriers with new supporting regulation to reflect.
3. Further, it aims to **smooth out the monitoring and reporting process** of EE investments through the single entity approach for national, EU, and global reporting of sustainability figures. Taking adequate steps to make this process **easier and more transparent**.

A further comparison between the participating Triple-A countries is provided in the European Synthesis paper<sup>2</sup>, while the Dutch Synthesis paper<sup>1</sup> details the regulation, market architecture and policy framework applicable to the identified cases.



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<sup>2</sup> <https://aaa-h2020.eu/sites/default/files/reports/D6.4%20Triple-A%20European%20Synthesis%20Paper.pdf>

## Bulgaria

# Triple-A Factsheet

Energy Efficiency Measures & Funding  
Schemes in Bulgaria



*NTEF, May 2022*



## ENERGY EFFICIENCY GOALS FOR 2030

The Energy Efficiency targets for Bulgaria towards 2030 are:

- National target for the share of renewable energy in gross final energy consumption – 27.09%.
- Lowering primary energy consumption as compared with the PRIMES 2007 baseline projection with 27.89%.
- Lowering final energy consumption as compared with the PRIMES 2007 baseline projection with 31.67%.

## Energy Efficiency Measures & Funding Schemes

As in other European countries, Bulgaria is highly dependent on energy sources imports. That is why much attention is paid to the energy efficiency sector. That is why highest priority for the Government of Bulgaria in the area of energy policy is increasing the energy independence of Bulgaria. The cornerstones in achieving the energy independence are enhancing energy efficiency together with transition to the Renewable Energy Sources. A series of respective measures fostering sustainable investments are available in Bulgaria for public and businesses sectors. The new financing instruments to be implemented will contribute primarily to the effective use of potentially available resources for improving energy efficiency and reducing carbon dioxide emissions.

## Public Financing Instruments

To increase energy savings through improved energy efficiency in the different sectors of activities, and mainly the building sector, the Bulgarian government has announced related programs for subsidizing the cost of investments for energy savings. More particularly, incentives are provided for energy-saving interventions in the public building sector. Improving the energy efficiency of residential buildings through Energy Efficiency measures are also promoted through specific Bank's programs. In addition, financing programs supporting private companies for energy-efficient renovations of buildings and their operating procedures and the implementation of infrastructure projects are also in place.

A summary of public financing instruments is listed below:

### National Funds and Energy Efficiency Programs Managed by the National Trust Ecofund (NTEF)

1. **Climate Investment Program - Energy Efficiency Scheme<sup>1</sup>.** Municipalities and other state institutions can receive a subsidy of 25 - 70% for the implementation of energy efficiency measures in buildings, municipal or state property. The investments applied under this scheme must meet the following conditions: be supported by up-to-date energy audits and the technical documentation must be highly prepared to implement the prescribed energy efficiency measures.
2. **Climate Investment Program - Electric Cars Scheme<sup>2</sup>.** Municipalities and other state institutions can apply for the replacement of conventional motor vehicles with electric ones. The subsidy is from EUR 5,000 - for plug-in hybrids up to EUR 20,000 for the purchase of electric vehicles, category M2 or H2. The 2021 budget is EUR 5,6 million.

### Energy efficiency programs, supported by European funds.

The following financial schemes have been created with funds from the Financial Mechanism of the European Economic Area 2014-2021<sup>3</sup>:

<sup>1</sup> <https://ecofund-bg.org/bg> - National Trust EcoFund

<sup>2</sup> <https://ecofund-bg.org/bg> - National Trust EcoFund

<sup>3</sup> Iceland, Liechtenstein, Norway Grants (EEA grants), Ministry of Energy

3. **Program "Renewable energy, energy efficiency and energy security".** The procedure "Energy efficiency in buildings". The purpose of the procedure is to renovate the buildings and turn them into ones with close to zero energy consumption. The total budget is EUR 10,7 million. Beneficiaries will be able to receive 100% of the value of each project, with a minimum aid amount of EUR 200,000 and a maximum of EUR 1.2 million. Eligible candidates are municipal administrations and state institutions.
4. **Program "Renewable energy, energy efficiency and energy security".** The procedure "Use of geothermal energy for heating or for heating and cooling in state or municipal buildings". The total value of the budget is EUR 3.4 million. Municipal administrations and state institutions can apply for it. Each of the projects can be financed with an amount between 200 thousand and 400 thousand euros, and the grant fully covers the project's cost.
5. **Program "Renewable energy, energy efficiency and energy security".** The procedure "Rehabilitation and modernization of municipal infrastructure - outdoor lighting systems of municipalities". The procedure aims to increase energy efficiency through technological renewal and the modernisation of outdoor lighting systems owned by Bulgarian municipalities and improve the country's living conditions. Eligible applicants under the procedure are the municipalities, and their partners for the implementation of the projects can be legal entities from Bulgaria or the donor countries, as well as international organizations. The total amount of the grant is EUR 8.2 million. The budget of each individual project can be from 200 thousand to 600 thousand euros. There is no requirement for co-financing by the applicants.

#### Financing schemes supporting energy efficiency and offered by financial institutions.

6. **Fund Manager of Financial Instruments in Bulgaria EAD (FMFIB)<sup>4</sup>** operates as a Fund of Funds (FoF); and allocates targeted public funds from European Union programs and national co-financing using special financing schemes (financial instruments).
7. **Urban Development Fund with its two divisions:**
  - For the regions of Southern Bulgaria and the City of Sofia, the **Fund for Sustainable Cities Consortium (FSC)**.
  - For the region of Northern Bulgaria, the **Regional Urban Development Fund (RUDF)**. Among the priority areas is improved energy efficiency of single-family residential buildings and student dormitories. Through this financial instrument, banks can offer low-interest investment loans. Eligible sites are single-family buildings falling within the urban territory of eligible cities.
8. **The Energy Efficiency and Renewable Sources Fund (FEEI)<sup>5</sup>** is structured as a self-financing trade mechanism and focuses its efforts on supporting the identification, development and financing of feasible projects to improve energy efficiency, leading to the reduction of greenhouse gas emissions. Another goal is to encourage the development of a functioning energy efficiency market in Bulgaria. The Fund provides low-interest loans, partial credit guarantees, portfolio guarantees; purchase of receivables and consultations. Beneficiaries can be Municipalities, corporate clients, individuals, ESCO companies.

<sup>4</sup> Fund Manager of Financial Instruments in Bulgaria, Financial instruments

<sup>5</sup> The Energy Efficiency and Renewable Sources Fund (FEEI), Financial products



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#### Conclusions

*Energy efficiency sector is of very high priority in Bulgaria. The government has recently started to put more attention in energy efficiency and embracing the green and digital transition. Energy efficiency prioritization is also due to the country's high dependency on energy imports, the uprising energy prices, and the increased pollution in its big cities.*

*The Bulgarian government has developed strategic plans to increase energy efficiency rates to tackle climate change and make the building stock as energy efficient as possible. Some public and private financing instruments have been designed and are available for the implementation of energy efficiency investments, especially in the building sector. According to stakeholder perspectives, Triple-A outcomes can contribute to the assessment of energy efficiency investments with a view to mainstreaming their financing in Bulgaria.*



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## Annex E – Triple-A Articles in Relevant Media

### Modern energy efficiency investment evaluation tools and ESG indicators



#### ΧΑΡΑ ΚΑΡΑΚΩΣΤΑ

*Chemical Engineer, PhD, MSc, Dipl. Eng.*

#### Σύγχρονα εργαλεία αξιολόγησης ενεργειακών επενδύσεων και ESG δείκτες

Από τη πλευρά της η κα Χαρά Καρακώστα, Chemical Engineer, PhD, MSc, Dipl. Eng., αναδεικνύει το γεγονός πως «στην προώθηση των επενδύσεων προς αυτή την κατεύθυνση οδηγεί και η έκρηξη των τιμών φυσικού αερίου που βιώνει τον τελευταίο καιρό η Ευρώπη, η οποία συμπαρασύρει σε πολύ υψηλά επίπεδα και τις τιμές ηλεκτρικής ενέργειας. Ταυτόχρονα, η μεγάλη αύξηση των τιμών των ρύπων διοξειδίου του άνθρακα έχει σαν μονόδρομο την επιλογή για γρήγορη αποανθρακοποίηση. Ετσι λοιπόν, η μετάβαση σε δράσεις ESG συνιστά μια ασπίδα προστασίας από κρίσεις σαν αυτή που βιώνουμε σήμερα».

Κρίνεται, λοιπόν αναγκαία η ύπαρξη εργαλείων τα οποία θα διευκολύνουν τις επιχειρήσεις στον σχεδιασμό και την πραγματοποίηση επενδύσεων σύμφωνων με τις αρχές ESG, με το λιγότερο δυνατό κόστος.

Η κυρία Καρακώστα περιγράφει την Ευρωπαϊκή Πρωτοβουλία Triple-A, η οποία αξιολογεί ενεργειακές επενδύσεις ενσωματώνοντας τις αρχές ESG σε διάφορους τομείς, συμπεριλαμβανομένων του κτιριακού, της βιομηχανίας και των μεταφορών.

Τα εργαλεία αυτά θέτουν ως προτεραιότητα την αναγνώριση και ανάδειξη των πιο αποδοτικών έργων, με απώτερο σκοπό την λήψη της απαιτούμενης χρηματοδότησης για την υλοποίησή τους.

#### ΓΙΑΝΝΗΣ ΚΑΡΑΜΠΕΛΑΣ

*Διευθύνων Σύμβουλος ΑΔΜΗΕ Συμμετοχών Α.Ε.*

#### Η ΑΔΜΗΕ Συμμετοχών για τα μεγάλα έργα ΑΔΜΗΕ

«Δεν θα υπερβάλλαμε εάν λέγαμε ότι μέσα στα προσεχή δέκα χρόνια ο Όμιλος ΑΔΜΗΕ πρόκειται να υλοποιήσει το μεγαλύτερο επενδυτικό πρόγραμμα στον τομέα της ενέργειας στην χώρα και ένα από τα μεγαλύτερα στην Νοτιοανατολική Ευρώπη», δηλώνει από τη πλευρά του ο Γιάννης Καραμπέλας, Διευθύνων Σύμβουλος, ΑΔΜΗΕ Συμμετοχών Α.Ε. Ετσι, μέχρι το 2029 αναμένεται να ολοκληρωθούν οι διασυνδέσεις της ηπειρωτικής χώρας με το κεντρικό δίκτυο μεταφοράς ηλεκτρικής ενέργειας, με emblematicό το έργο της διασύνδεσης της Κρήτης με την Αττική, το οποίο λειτουργεί ήδη, διασφαλίζοντας αφενός την ενεργειακή επάρκεια του νησιού και αφετέρου την εξοικονόμηση από τις ΥΚΩ 1 εκατ. ευρώ ημερησίως. Σημαντικά έργα επίσης είναι και η σύνδεση με το σύστημα των πολυάριθμων επενδύσεων ΑΠΕ, περιλαμβανομένων και των Αιολικών πάρκων και η ολοκλήρωση ή/και αναβάθμιση των διεθνών διασυνδέσεων με τις χώρες της ευρύτερης περιοχής μας. Τα έργα αυτά εξασφαλίζουν την ενεργειακή τροφοδοσία ολόκληρης της χώρας, με ταυτόχρονη μείωση των ρύπων που παράγονται από τη λειτουργία των πετρελαιοειδών σταθμών παραγωγής στα νησιά. Στρατηγικές σημασίες είναι το 10ετές πρόγραμμα ανάπτυξης του ΑΔΜΗΕ το οποίο συμβάλει, μεταξύ άλλων, στη μετατροπή της Ελλάδας σε ενεργειακό κόμβο ΝΑ Ευρώπης και Μεσογείου.



## Everything a company needs to know about adopting ESG practices

### ESG+stories

BUSINESS ESG

#### Χάρης Δούκας: Όλα όσα πρέπει να ξέρει μια επιχείρηση για την υιοθέτηση πρακτικών ESG

Ο αναπληρωτής καθηγητής του ΕΜΠ Χάρης Δούκας περιγράφει έναν πλήρη οδηγό για τις ελληνικές επιχειρήσεις, σχετικά με επιτυχημένη υιοθέτηση πρακτικών ESG.



ΘΟΔΩΡΗΣ ΠΑΝΑΓΟΥΛΗΣ  
06 ΣΕΠΤΕΜΒΡΙΟΥ 2021

SHARE



Υπάρχει ένα ενιαίο και αξιόπιστο μοντέλο βαθμολόγησης των επιχειρήσεων για ορθές ESG πρακτικές; Πως μπορεί μια επιχείρηση να επιτύχει υψηλές επιδόσεις; Μπορεί μια επιχείρηση να δραστηριοποιείται σε έναν τομέα που επιβαρύνει το περιβάλλον και ταυτόχρονα να έχει υψηλή επίδοση στα κριτήρια ESG; Έχουν πράγματι οι εταιρείες οφέλη από τις πιθανές καλές επιδόσεις στην προσαρμογή τους στα κριτήρια ESG; Πως διαρθρώνεται στη χώρα μας ο τομέας και ποιές είναι οι επιτυχημένες πρακτικές;

Ακολουθεί η συνέντευξη:

#### Τα κριτήρια ESG για την αξιολόγηση των επιχειρήσεων ενέσκηψαν πολύ δυναμικά στη διεθνή ορολογία, αλλά υπάρχει μια σύγχυση. Τι ακριβώς είναι αυτά τα κριτήρια;

Παλαιότερα μια επιχείρηση είχε σαν βασικό στόχο να δημιουργεί κέρδη και σαν βασικό κριτήριο επιτυχίας την οικονομική της ανάπτυξη και την απόδοση των επενδύσεών της. Σήμερα, οι επιχειρήσεις πρέπει να διασφαλίσουν, εκτός από τα κέρδη των μετόχων, την ευημερία των εργαζομένων και το συλλογικό καλό. Πριν από την πανδημία, ο τρόπος με τον οποίο μια επιχείρηση χρησιμοποιούσε τους φυσικούς πόρους, η συνέπεια της σχετικά με τις δεσμεύσεις της για το περιβάλλον, η επίδοσή της στην κυκλική οικονομία, η επιστροφή του παραγόμενου πλούτου, ο σεβασμός της προς την κοινωνία και οι αρχές εσωτερικής της διακυβέρνησης, ήταν ήδη πολύ σημαντικές παράμετροι. Και είναι ακόμη περισσότερο τώρα που η ανθρωπότητα προσπαθεί να ανακάμψει.

Ο δείκτης ESG λοιπόν αποτελεί έναν δείκτη αξιολόγησης και σύγκρισης επιχειρήσεων με βάση περιβαλλοντικά (Environmental) και κοινωνικά (Social) κριτήρια, καθώς και κριτήρια εταιρικής διακυβέρνησης (Governance). Ως εκ τούτου, οι εταιρείες υιοθετούν και εφαρμόζουν σχετικές πρακτικές και εν συνεχεία δημοσιοποιούν τις επιδόσεις τους. Βάσει αυτών αξιολογούνται, βαθμολογούνται και κατατάσσονται σε λίστες που δείχνουν πόσο κοντά ή μακριά είναι στην εφαρμογή και την τήρηση τέτοιων πρακτικών.

## IAMC News, Triple-A Database on Energy Efficiency Financing

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THE CONSORTIUM SCIENTIFIC WORKING GROUPS F

### Triple-A Database on Energy Efficiency Financing

On May 6, 2021

#### TOOL

### Triple-A Database on Energy Efficiency Financing

Geographical scope:	Country
Initial Release:	May 2021
Institution(s):	EPU - NTUA, ABN AMRO, IEECP, JCR, GFT, CREARA, AELPHI, PB, UPRC, SEVEN, VIPA, NTEF
Link:	<a href="http://aaa-h2020.epu.ntua.gr:8080/home/database#">http://aaa-h2020.epu.ntua.gr:8080/home/database#</a>

The Triple-A Interactive Web-based Database is a visual representation of the most important aspects in energy efficiency financing, including the risks that could endanger the successful implementation of an energy efficiency project, the strategies that could mitigate these risks, the preferences of investors on energy efficiency investments, the financial performance of energy efficiency projects, the models and instruments that are usually used to finance energy efficiency projects and the performance of case study countries in terms of Sustainable Development Goals.

The Triple-A methodology is focused on and reports information about the 8 case study countries, for which respective data have been collected, namely Bulgaria, Czech Republic, Germany, Greece, Italy, Lithuania, Spain and the Netherlands.



## Hiding fossil fuel subsidies under clean energy targets

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 Hiding fossil fuel subsidies under clean energy targets?

## Hiding fossil fuel subsidies under clean energy targets?

**DISCLAIMER:** All opinions in this column reflect the views of the author(s), not of EURACTIV Media network.

By [Haris Doukas](#) and [Vlasios Oikonomou](#)

9 Feb 2021



Natural gas heaters are often eligible under various energy efficiency programmes and subsidised through tax reductions, loans and grants. [[s\\_p\\_a\\_c\\_e\\_m\\_a\\_n](#) / Flickr]

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**To safeguard climate targets' integrity against greenwashing measures, transparent rules should be in place, write Vlasios Oikonomou and Haris Doukas.**

*Vlasios Oikonomou is the managing director at the Institute for European Energy and Climate Policy in the Netherlands. Haris Doukas is an associate professor of energy and climate policy at the National Technical University of Athens, Greece.*

Natural gas is composed of 70-90% methane, a potent greenhouse gas contributing to global warming. The general public perceives natural gas as less harmful than other fossil fuels like oil or coal.

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