

WP7 Communication, Dissemination & Stakeholder Engagement

D7.3 ARTICLES IN ONLINE MEDIA SUCH AS THE BUILD UP PORTAL AND OTHER RELEVANT WEBSITES & 3 5-MINUTE PODCASTS

Andreea Nacu – Housing Europe

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1. Revision Log:

The name of the person (author) and beneficiary responsible for the document’s preparation. A record of document updates that designates who is responsible for the updates, in order to track changes.

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2. Technical References

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3. Roles and Responsibilities

Name	Role	Responsibility
NTNU	Feedback	Checking collected content and feedback
DTU	NA	NA
BPIE	Reviewer	Internal quality assurance of the deliverable
SINTEF	NA	NA
Housing Europe	Author	Drafting document and collecting input
IREC	Feedback	Checking collected content
Area Wonen	Feedback	Checking collected content
INCASÒL	Feedback	Checking collected content
TNO	Feedback	Checking collected content
ENFOR	NA	NA
ABUD	Feedback	Checking collected content
HÖ	NA	NA
SIR	Feedback	Checking collected content
ARCA NOVA	Feedback	Checking collected content

4. Executive summary

The syn.ikia project is committed to advancing innovation and delivering high quality results. To ensure the effectiveness of our outreach efforts, a dedicated report was designed to monitor two key dissemination tools: articles and podcasts. The initial target was to produce at least eight articles and three podcasts. Whenever it was possible, partners tried to surpass this target. Report D7.3 focuses on providing a comprehensive overview of the materials produced, linking them with previous related projects, promoting project innovations, and communicating core ideas to a wider audience.

The partners' approach to creating communication and dissemination content was driven by the ambition to create impact. In the case of producing articles and podcasts, the primary objectives were to raise awareness, educate target audiences, shape opinions, influence decision-makers, foster engagement, and ultimately inspire action. The messaging revolved around the five core pillars known as 5Ds of the syn.ikia project:

- Decentralisation
- Decarbonisation
- Democracy
- Digitalisation
- Design.

An essential guiding element was tailoring content to specific target audiences, which included: The general public, urban authorities, the housing community, non-residential community (healthcare, leisure, retail, etc), technology and service providers, regulatory authorities, developers and investors, building market influencers, relevant and sister projects, and academia.

To ensure diversity and maintain audience interest, partners opted not to duplicate content. For example, podcast episodes were not directly based on an article topic, as varied content was considered to be more attractive and engaging for the audience.

The [syn.ikia podcast](#) was featured as part of the established Housing Europe one, 'Making a house a home', in order to amplify its reach. The first episode highlighted tenants' perspectives during their visit to Brussels for the Renovation Summit 2022, organized by Housing Europe. The subsequent two episodes reflected on the political focus on the housing crisis, positioning syn.ikia's solutions as a potential response to this pressing issue.

5. Articles in online media

Articles about the syn.ikia project served as one of the most important means for dissemination. All syn.ikia partners contributed either directly or indirectly to the development of all the published material. The guiding principles for the development and publishing of these articles included relevance, target audience, timeliness, innovation, credibility, format, language, and visibility.

An overview of the published work was categorized by scope: covering both individual demo sites and the international level. The total numbers are as follows:

- Austrian demo: 7 articles
- Dutch demo: 15 articles
- Spanish demo: 20 articles
- Norwegian demo: 10 articles
- EU level: 20 articles

The majority of these publications consist of news articles featured on relevant websites such as those of the project, partners, and institutional entities, as well as research papers, produced mostly by partners activating in academia. syn.ikia updates were also distributed through local and national media outlets (e.g. La Republica in Spain or klik nieuws Uden in the Netherlands), and specialised platforms like the BUILD UP and GlobalABC.

Articles with a focus on the Spanish demo

The updates and findings of the syn.ikia project, with a particular focus on the Spanish demo, were well-represented capturing the demo's evolution. The primary contributors that were active in disseminating all the content presented in this section were INCASÒL and IREC, supported at times by Housing Europe as WP7 leader. The content was primarily produced in Spanish and Catalan, ensuring accessibility to the local audience.

No.	Date	Author	Title	Channel	Type of article ¹	Link
1	22/01/2020	IREC	IREC published an article on their website after the project's kick-off	Project partner website: IREC	News article	https://www.irec.cat/press-society/news/irec-plus-energy-neighbourhoods-synikia-project/
2	28/10/2020	INCASÒL	INCASÒL published the article "Plus energy Neighbourhoods: The Innovation chain to market and societal Actions" at the	Project partner website: INCASÒL	News article	https://territori.gencat.cat/ca/detalis/Article/INCASÒL_syn.ikia

¹ Press Release, News Article, Blog Post , Interview, Opinion/Editorial, Case Study, Research Paper, Feature Article, Social Media Post, Newsletter Mention, Event Report , Policy Brief, Technical Report, Media Coverage

			Catalan Minister of Territory and Sustainability website			
3	30/03/2021	INCASÒL	Generalitat de Catalunya published the article “Syn.ikia: barris sostenibles d’energia positiva” by INCASÒL	Catalunya Region website	News article	https://rdi.dtes.scipedia.com/s/GilRibaAranda2021ahttps://territori.gencat.cat/ca/detalls/Article/INCASOL_syn_ikia
4	24/5/2022	INCASÒL	Festival of the New European Bauhaus	Project partner website: INCASÒL	News article	https://INCASÒL.gencat.cat/ca/3-arees d actuacio /projectes-internacionals/nova-bauhaus and https://www.youtube.com/watch?v=5wu4XursJP8
5	19/6/2022	ICAEN	Round Table: Buildings, from large consumers to energy generators	Project partner website: INCASÒL	News article	https://icaen.gencat.cat/ca/detalls/activitatagenda/20220609 Taula-Rodona-Edificis-de-grans-consumidors-a-generadors-
6	26/9/2022	INCASÒL	INCASÒL published a video on their website: Meet the Spanish #SPEN from Fondo, Santa Coloma de Gramenet	Project partner website: INCASÒL	News article	https://incasol.gencat.cat/ca/3-arees d actuacio /projectes-internacionals/Syn.ikia/index.html#googtrans(ca en)
7	26/10/2022	INCASÒL	INCASÒL published an article on their website: triptych on the SYN.IKIA project	Project partner website: INCASÒL	News article	https://INCASÒL.gencat.cat/web/.content/01_home_c ontinguts/1-INCASÒL/8-arees d actuacio /Projectes internacionals/221026 triptic synIKIA CA T_web.pdf

8	18/11/2022	IREC	News item in IREC's website: Designing sustainable plus-energy neighbourhoods.	Project partner website: IREC	News article	https://www.irec.cat/press-society/news/designing-sustainable-plus-energy-neighborhoods-video/
9	28/11/2022	INCASÒL	INCASÒL published an article on their website: SYN.IKIA-Positive energy social housing building in Santa Coloma de Gramenet, we share energy at neighborhood level	Project partner website: INCASÒL	News article	https://INCASÒL.gencat.cat/ca/3-arees_d_actuacio/projectes-internacionals/Syn.ikia/index.html
10	2/5/2024	INCASÒL	INCASÒL published an article on their website: INCASÒL welcomes the partners of the Syn.ikia European Project to evaluate its progress	Project partner website: INCASÒL	News article	https://INCASÒL.gencat.cat/ca/actualitat/noticies/Noticia/not_240502_sinikia
11	13/10/2024	Badalona Comunicació	Santa Coloma completes forty officially protected flats in Fondo	Municipality of Badalona website	Media coverage	https://www.bdncom.cat/notice/santa-coloma-enllesteix-una-quarantena-de-pisos-de-proteccio-oficial-a-fondo
12	13/10/2024	Government of Catalonia	President Illa reaffirms the Government's commitment to public housing during the visit to an official protection promotion in Santa Coloma de Gramenet	Catalunya Region website	Press release	https://govern.cat/salaprensa/notes-premsa/646322/president-illa-referma-laposta-del-govern-lhabitatge-public-durant-visita-promocio-proteccio-oficial-santa-coloma-gramenet

13	13/10/2024	La Republica	President Illa warns that guaranteeing access to housing "is a country's duty" and bets on adding efforts "to win the battle"	Local media	Media coverage	https://www.larepublica.cat/minut-a-minut/illa-avisa-que-garantir-lacces-a-lhabitatge-es-un-deure-de-pais-i-aposta-per-sumar-esforcos-per-guanyar-la-batalla/#goog_rewarded
14	17/10/2024	Government of Catalonia	Minister Paneque hands over the keys to the pilot promotion of social rental flats with energy self-consumption in Santa Coloma de Gramenet	Catalunya Region website	News article	https://govern.cat/salaprensa/convocatories/233076/consellera-paneque-lliura-claus-promocio-pilot-pisos-lloguer-social-autoconsum-energetic-santa-coloma-gramenet
15	17/10/2024	City Council of Santa Coloma de Gramenet	The Minister of Housing, Sílvia Paneque, and the Mayor, Mireia González, hand over the keys to the Fund's new public housing	Municipality of Santa Coloma de Gramenet	News article	https://ajuntamentinforma.gramenet.cat/info-local/la-consellera-dhabitatge-silvia-paneque-i-lalcaldessa-mireia-gonzalez-lliuren-les-claus-dels-n/
16	18/10/2024	Government of Catalonia	Paneque: "The objective is to have new public housing as quickly as possible"	Catalunya Region website	Press release	https://govern.cat/salaprensa/note-s-prensa/648582/p-paneque-lobjectiu-disposar-nous-habitatges-publics-maxima-rapidesa-possible
17	18/10/2024	IREC	The new positive energy building in the Fondo	Project partner website: IREC	News article	https://www.irec.cat/press-society/news/the-new-positive-

			neighbourhood is now a reality			energy-building-in-the-fondo-neighbourhood-is-now-a-reality/
18	18/10/2024	Clúster de l'Energia Eficient de Catalunya (CEEC)	IREC and INCASÒL inaugurate the first positive energy building in the Fondo neighborhood in Santa Coloma de Gramenet	The Efficient Energy Cluster of Catalonia (CEEC) website	Media coverage	https://clusterenergia.cat/news/lirec-i-incasol-inauguren-el-primer-edifici-denergia-positiva-al-barri-fondo-de-santa-coloma-de-gramenet/
19	22/10/2024	Construible.es	A positive energy building of 38 public homes inaugurated in Santa Coloma de Gramenet	CONSTRUIBLE is the main online communication medium about Sustainable Construction. (Spain)	Media coverage	https://www.construible.es/2024/10/22/inaugurado-edificio-energia-positiva-38-viviendas-santa-coloma-gramenet
20	30/10/2024	Ministry of European Union and Foreign Affairs	The new positive energy building in the Fondo neighbourhood is now a reality	Ministerial website	News article	https://exteriors.gencat.cat/ca/ambits-dactuacio/afers-exteriors/ue/fons-europeus/detalls-noticia/20241030-energia-positiva-fondo

Articles with a focus on the Austrian demo

The Austrian partners (HÖ, SIR) and ABUD produced several articles in German, Hungarian and English to disseminate key milestones and developments from their demo. While the produced content is concise, its quality reflects the significant effort and innovation invested in the project.

No.	Date	Author	Title	Channel	Type of article ²	Link
1	29/06/2022	HE, SIR	Article in syn.ikia's website: Deep-dive into Friedrich-Inhauser-Strasse, our demo neighbourhood in Salzburg	Project website	News article	https://www.synikia.eu/deep-dive-into-friedrich-inhauser-strasse-our-demo-neighbourhood-in-salzburg/
2	27/10/2022	SIR	News item in syn.ikia's website and klimaaktiv: Austrian Climate Protection Ministry honours Austrian demo project.	Project website	News article	https://www.synikia.eu/austrian-climate-protection-ministry-honors-austrian-demo-project/
3	20/04/2023	HE, SIR	Article in syn.ikia's website: Renovation for plus energy neighbourhoods meets social housing in Salzburg	Project website	News article	https://www.synikia.eu/renovation-for-positive-energy-neighbourhoods-meets-social-housing-in-salzburg/
4	26/04/2023	HO, SIR	Article in Heimat Österreich Website 'EU-Projekt syn.ikia – Salzburger Bauprojekte mit internationaler Strahlkraft vorgestellt'	Project partner website	News article	https://www.heimat-oesterreich.at/de/News/EU-Projekt-syn.ikia-Salzbürger-Bauprojekte-mit-internationaler-Strahlkraft-vorgestellt_ptd_6361

² Press Release, News Article, Blog Post, Interview, Opinion/Editorial, Case Study, Research Paper, Feature Article, Social Media Post, Newsletter Mention, Event Report, Policy Brief, Technical Report, Media Coverage

5	10/04/2024	ABUD,SIR	ISEC Conference proceeding – Poster : Agent Based Modelling aided Energy Community design : A case study in Austrian context	Conference proceedings	Conference paper	https://www.aee-intec.at/download/Conference_Proceedings_ISEC_2024.pdf
6	29/07/2024	ABUD	Article in Építészforum website – Hungarian online architectural magazin : Pozitív energia körkép III. rész: Salzburg új, plusz energiát termelő városrésze	Hungarian online architectural magazine website	Featured article	https://epiteszforum.hu/pozitiv-energia-korkep-iii-resz-salzburg-uj-plusz-energiat-termelovarosresze
7	09/01/2025	SINTEF, NTNU	Exploring Multilevel Governance Networks in Deployment of Positive Energy Districts: Case of Salzburg	Springer	Research paper	https://link.springer.com/chapter/10.1007/978-3-031-69626-8_99

Articles with a focus on the Dutch demo

The articles produced by the Dutch partners (Area Wonen and TNO) reflect a balanced mix when it comes to their scope, content and distribution channel. Following the general rule, the articles were primarily produced in Dutch, and on some occasions in English. Given the articles that were disseminated through specialised channels, we can affirm that the content can be used as a source of reference.

No.	Date	Author	Title	Channel	Type of article ³	Link
1	13/01/2021	Aedes/Area Wonen	AEDES published an interview to AREA "Veelbelovend EU-project biedt Area kansen"	Aedes website	News article	https://www.aedes.nl/artikelen/woningmarkt/europa/veelbelovend-eu-project-biedt-area-kansen.html
2	28/04/2021	TNO	Cobouw published the article "Er zitten nog wat haken en ogen aan de voorspellende gaven van de digital twin" by TNO	Cobouw website – Dutch construction portal	Featured article	https://www.cobouw.nl/innovatie/nieuws/2021/04/strategisch-handelen-is-van-alle-tijden-101295132
3	22/06/2021	TNO	Cobouw published the article "De voorspellende waarde van een digitaal tweelingbouw werk" by TNO	Cobouw website – Dutch construction portal	Featured article	https://www.cobouw.nl/innovatie/partner/2021/06/tno-digitaal-tweelingbouwwerk-101296671
4	18/10/2021	TNO	Article in Huisnummer: Digitaal tweelingbouw werk helpt	Hendriks Coppelmans digital platform (contractor of	News article	https://www.hendriks-coppelmans.nl/wp-content/uploads/2021/10/Digitaal-tweelingbouwwerk-helpt-energievraag-

³ Press Release, News Article, Blog Post, Interview, Opinion/Editorial, Case Study, Research Paper, Feature Article, Social Media Post, Newsletter Mention, Event Report, Policy Brief, Technical Report, Media Coverage

			energievraag voorspellen	the Dutch demo)		voorspellen Huisnummer najaar2021.pdf
5	01/12/2021	HE Area Wonen	syn.ikia's website published Symbolic handover marks topping out of Loopkantstraat apartments in Uden	Project website	News article	https://www.synikia.eu/7287/
6	24/03/2022	HE Area Wonen	Press release in syn.ikia's website: Innovation EU-funded project on Positive Energy Neighbourhoods travels to Uden to mark important milestone and evaluate progress.	Project website	News article	https://www.synikia.eu/innovation-eu-funded-project-on-positive-energy-neighbourhoods-travels-to-uden-to-mark-important-milestone-and-evaluate-progress/
7	25/03/2022	Area Wonen	Press release on AREA's website: Samenwerkings partners innovatief EU- gesubsidieerd project over energiepositieve wijken bezoeken Uden	Local media outlet: klik nieuws Uden	Media coverage	https://www.kliknieuwsuden.nl/nieuws/wonen/191427/samenwerkingspartners-innovatief-project-over-energiepositieve-wijken-bezoeken-uden
8	02/06/2022	TNO	Article in WijBrabant website: Energiepositief, volgende stap in duurzaam bouwen.	The energy workshop is a platform for professionals involved in the energy transition in North Brabant.	Media coverage	https://www.energiwerkplaatsbrabant.nl/actualiteiten/nieuws+pnb/2228594.aspx?t=energiepositief-volgende-stap-in-duurzaam-bouwen#:~:text=Alle

						%20nieuwbouw%20in%20Nederland%20moet,opwekken%20dan%20ze%20zelf%20verbruiken.
9	07/07/2022	TNO	TNO published a video on the Dutch demo: The Syn.ikia project: the predictive twin in practice	YouTube	Media coverage	(102) The Syn.ikia project: the predictive twin in practice - YouTube
10	2022	TNO	Reducing peak load of renewable energy at district level with predictive twins	IOP Science, SBE22Delft Conference: Preparing for the European Renovation Wave	Research paper	https://iopscience.iop.org/article/10.1088/1755-1315/1085/1/012007/meta
11	2022	TNO	A novel model based approach of an integrated ventilation and heating model for monitoring and control	AIVC Conference Rotterdam	Research paper	https://www.aivc.org/sites/default/files/AIVCProceedings_036.pdf
12	02/03/2023	HE	Article in syn.ikia/Housing Europe website: When sustainability is not only about the green transition, but also about ensuring the well-being of residents.	Project website	News article	https://www.synikia.eu/when-sustainability-is-not-only-about-the-green-transition-but-also-about-ensuring-the-well-being-of-residents/
13	2023	TNO	Digital sustainability: a recipe for	EGOS conference 2023	Research paper	https://www.synikia.eu/wp-content/uploads/2023/05/03/Digital-sustainability-a-

			<p>unintended consequences?</p> <p>The case of predictive digital twins for social housing</p>			recipe-for-unintended-consequences.pdf
14	2023	TNO	<p>From Buildings to Communities: Exploring the Role of Financial Schemes for Sustainable Plus Energy Neighborhoods</p>	Energies	Research paper	https://www.mdpi.com/1996-1073/16/14/5453
15	2024	TNO	<p>Digital Twins & Sustainability: A Pathway to Building Positive-energy Districts</p>	<p>Amplify, Cutter, AN Arthur D. Little community</p>	Research paper	https://www.synikia.eu/wp-content/uploads/2024/12/Charting-a-Sustainable-Future-Digital-Twins-Sustainability.pdf

Articles with a focus on the Norwegian demo

The updated on the Norwegian demo reached a broad audience, effectively engaging various target groups. While primarily designed to inform potential replicators, in the content also gained visibility in local media, making it accessible to the general public. The articles were produced both in Norwegian and English to maximize reach and impact.

No.	Date	Author	Title	Channel	Type of article ⁴	Link
1	22/04/2020	NTNU	The Research Council of Norway introduced the syn.ikia project in them 2019 Annual Report Research Council of Norway (page 61) reaching an audience of approx. 10 000 people.	The Research Council of Norway – Academia platform	News article	https://www.forskningssradet.no/nyheter/2020/2019-var-et-godt-ar-for-forskningssradet-og-norsk-forskning/?utm_campaign=23-04-2020&utm_medium=email&utm_source=apsis
2	30/06/2021	SINTEF, NTNU	Approaches to Social Innovation in Positive Energy Districts (PEDs)—A Comparison of Norwegian Projects	MDPI	Research paper	https://www.mdpi.com/2071-1050/13/13/7362
3	08/12/2021	NTNU	syn.ikia’s website published Breakfast seminar on Sustainable Plus-Energy Neighbourhoods in Europe in Oslo, Norway	Project website	News article	https://www.synikia.eu/breakfast-seminar-onsustainable-plus-energy-neighbourhoods-in-europe-in-oslo-norway/
4	15/02/2022	NTNU	Blogpost by NTNU on SINTEF’s website: Hva er et bærekraftig plussenergi-nabolag?	Project partner website (SINTEF)	News article	https://blogg.sintef.no/energi/hva-er-et-baerekraftig-plussenergi-nabolag/

⁴ Press Release, News Article, Blog Post , Interview, Opinion/Editorial, Case Study, Research Paper, Feature Article, Social Media Post, Newsletter Mention, Event Report , Policy Brief, Technical Report, Media Coverage

5	24/06/2022	NTNU	Blogpost by NTNU on Gemini.no: Hva er et plusshus?	Gemini.no - general research news about technology, energy and the environment, natural sciences, fish and aquaculture, innovation, health, society and the humanities.	Blog post	https://gemini.no/2022/06/hva-er-et-plusshus/
6	21/11/2022	Arca Nova	Article in Nyheter: Bruker kun én tusenlapp på strøm i måneden.	TV2.NO - national tv website	Media coverage	https://www.tv2.no/nyheter/innenriks/bruker-kun-en-tusenlapp-pa-strom-i-maneden/15258864/
7	30/03/2023	NTNU	Post in FME ZEN newsletter	FME ZEN Newsletter	Newsletter mention	https://pub.dialogapi.no/v/9832c1ea-b264-449b-b326-856f622c5634
8	27/04/2023	NTNU	– Post in FME ZEN newsletter	FME ZEN Newsletter	Newsletter mention	https://pub.dialogapi.no/v/849779c9-9382-41c8-8d85-05c7d35668a2
9	30/06/2023	NTNU	Post in FME ZEN Newsletter	FME ZEN Newsletter	Newsletter mention	https://pub.dialogapi.no/v/8a5a8106-47a9-4638-aa7e-36579e9b7496
10	01/09/2024	NTNU	Towards a positive energy balance: A comparative analysis of the planning and design of four positive energy districts and neighbourhoods in Norway	Science Direct	Research paper	https://www.sciencedirect.com/science/article/pii/S0378778824005450

			and Sweden			
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EU level articles

This chapter aims to present the overview of all published articles that have a broader scope than just one demo project. The content presented below was developed to disseminate syn.ikia findings, innovations, updates and impact that could be of interest for a larger area than the national context of the demo project. The dissemination at this level was essential to ensure the success of the project and its results, as well as to facilitate potential replication.

The topics range from simple updates for workshop outcomes or peer-reviewed articles on the innovations deployed in the syn.ikia demos. Regarding the target audience, the materials were produced for the established groups: general public, local, regional and national authorities, broader community, technology and service providers, developers, investors, partner initiatives and academia. A mixed range of platforms were used: partners websites, social media channels, and speciality platforms (e.g. BUILD UP or Science Direct).

No.	Date	Author	Title	Channel	Type of article ⁵	Link
1	21/12/2023	HE	What are the benefits of sustainable Plus Energy Buildings (PEBs) and Neighbourhoods (SPENs) beyond energy savings?	BUILD UP platform	Media coverage	https://build-up.ec.europa.eu/en/news-and-events/news/what-are-benefits-sustainable-plus-energy-buildings-pebs-and-neighbourhoods
2	31/01/2020	HE	HE published an article on their website shortly after the project's kick	Project partner website – Housing Europe	News article	https://www.housing-europe.eu/resource-1360/synikia-horizon-2020-project-kicks-off
3	12/02/2020	NTNU	BUILD UP introduced the syn.ikia project shortly after the project's kick-off meeting presenting syn.ikia's aims, concept and project partners	BUILD UP platform	Media coverage	https://www.buildup.eu/en/explore/links/synikia-project
4	10/06/2020	NTNU	BUILD UP positioned syn.ikia in the group of the main European Projects implementing the	BUILD UP platform	Media coverage	https://www.buildup.eu/en/news/overview-nearly-zero-plus-energy-buildings

⁵ Press Release, News Article, Blog Post, Interview, Opinion/Editorial, Case Study, Research Paper, Feature Article, Social Media Post, Newsletter Mention, Event Report, Policy Brief, Technical Report, Media Coverage

			future of PEBs and PENS			
5	12/11/2020	HE	HE published an article summarising the main messages from the webinar “Developing Positive Energy Districts (PEDs) in Europe	Project partner website – Housing Europe	News article	https://www.ourhomesourdeal.eu/post/developing-positive-energy-districts-peds-in-europe
6	29/03/2021	IREC	Primary Energy Balance driven Integrated Energy Design Process of Positive Energy Building	E3S Web of Conferences	Research paper	https://www.e3s-conferences.org/articles/e3sconf/abs/2021/22/e3sconf_hvac2021_13001/e3sconf_hvac2021_13001.html
7	29/03/2021	DTU	Non-linear model predictive control for smart heating of buildings.	In E3S web conference	Research paper	https://www.e3s-conferences.org/articles/e3sconf/abs/2021/22/e3sconf_hvac2021_09005/e3sconf_hvac2021_09005.html
8	03/2021	Housing Europe, ABUD	Six Lessons Learned by Considering Social Sustainability in Plus-Energy Neighbourhoods.	Research Gate	Conference paper	https://www.researchgate.net/publication/352550958_Six_Lessons_Learned_by_Considering_Social_Sustainability_in_Plus-Energy_Neighbourhoods
9	15/06/2021	DTU	Advanced forecasting and disturbance modelling for model predictive control of smart energy systems.	Science Direct	Research paper	https://www.sciencedirect.com/science/article/pii/S0306261921003755
10	23/06/2021	NTNU	BUILD UP published the article “6 lessons learned about social performance in Sustainable Plus Energy Neighbourhoods (SPEN)	BUILD UP platform	Media coverage	https://www.buildup.eu/en/news/6-lessons-learned-about-social-performance-sustainable-plus-energy-neighbourhoods-spen

11	23/06/2021	NTNU	BUILD UP published the article “Plus Energy Homes and Neighbourhoods, moving beyond the traditional building energy	BUILD UP platform	Media coverage	https://www.buildup.eu/en/news/plus-energy-homes-and-neighbourhoods-moving-beyond-traditional-building-energy-assessment
12	23/06/2021	HE	BUILD UP published the article “Launch of SPEN Community”	BUILD UP platform	Media coverage	https://www.buildup.eu/en/news/launch-spen-community https://www.housingeurope.eu/resource-1579/a-newly-launched-online-space-aims-at-boosting-sustainable-plus-energy-neighbourhoods-in-europe
13	07/09/2021	HE	syn.ikia website published Is Europe ready for Sustainable Plus Energy Buildings and Neighbourhoods?	Project website	News article	https://www.synikia.eu/is-europe-ready-for-sustainable-plusenergy-buildings-and-neighbourhoods/
14	29/09/2021	SINTEF	A Systematic Approach Towards Mapping Stakeholders in Different Phases of PED Development— Extending the PED Toolbox	Springer	Research paper	https://link.springer.com/chapter/10.1007/978-981-16-6269-0_38
15	09/2021	NTNU	Zero emission neighbourhoods and positive energy districts – A state-of-the-art review	Science Direct	Research paper	https://www.science-direct.com/science/article/pii/S2210670721002973
16	18/11/2021	HE, BPIE	BUILD UP and Construction21 published Is Europe ready for Sustainable Plus Energy	BUILD UP and Construcion21 platforms	Media coverage	https://www.buildup.eu/en/news/europe-readysustainable-plus-energy-buildings-and-

			Buildings and Neighbourhoods?			neighbourhoods-0 and https://www.construction21.org/articles/h/is-europe-ready-for-sustainable-plus-energybuildings-and-neighbourhoods.html
17	02/12/2021	IREC, NTNU	Workshop on Positive Energy Buildings—Definition	MDPI	Conference paper	https://www.mdpi.com/2673-4931/11/1/26
18	07/12/2021	IREC, NTNU, DTU, ABUD, BPIE, Housing Europe, SINTEF	An Evaluation Framework for Sustainable Plus Energy Neighbourhoods: Moving beyond the Traditional Building Energy Assessment.	MDPI	Research paper	https://www.mdpi.com/1996-1073/15/15/5646
19	08/12/2021	NTNU	syn.ikia's website published Breakfast seminar on Sustainable Plus-Energy Neighbourhoods in Europe in Oslo, Norway	Project website	News article	https://www.synikia.eu/breakfast-seminar-onsustainable-plus-energy-neighbourhoods-in-europe-in-oslo-norway/
20	21/02/2022	HE, BPIE	Article in syn.ikia website, BUILD UP portal, Construction21 and Energy Post: How to ensure a positive energy balance through design in Sustainable Plus Energy Neighbourhoods?	BUILD UP platform	Media coverage	http://www.buildup.eu/en/news/europe-ready-sustainable-plus-energy-buildings-and-neighbourhoods-0
21	24/03/2022	HE	Press release in syn.ikia's website: Innovation EU-funded project on Positive Energy Neighbourhoods travels to Uden to mark important	Project website	News article	https://www.synikia.eu/innovation-eu-funded-project-on-positive-energy-neighbourhoods-travels-to-uden-to-mark-important-milestone-and-evaluate-progress/

			milestone and evaluate progress.			
22	29/06/2022	HE, SIR	Article in syn.ikia's website: Deep-dive into Friedrich-Inhauser-Strasse, our demo neighbourhood in Salzburg	Project website	News article	https://www.synikia.eu/deep-dive-into-friedrich-inhauser-strasse-our-demo-neighbourhood-in-salzburg/
23	06/2022	DTU	Human in the Loop: perceived-based control as the key to enhance buildings' performance	Building Simulation 2021 Conference.	Research paper	https://www.synikia.eu/wp-content/uploads/2021/12/HuiL_review_final_pub.pdf
24	06/2022	BPIE, NTNU	Positive Energy Neighbourhoods: Drivers of Transformational Change	Related projects collaboration	Policy brief	https://www.synikia.eu/wp-content/uploads/2022/07/OpenLab-Positive-Energy-Neighbourhoods_9.pdf
25	22/09/2022	DTU, NTNU, IREC,	Ten questions concerning energy flexibility in buildings	Science Direct	Research paper	https://www.sciencedirect.com/science/article/pii/S0360132322006928
26	15/10/2022	HE, NTNU, Aca Nova	News item in syn.ikia's website: Warm welcome to our new Norwegian SPEN demonstration project	Project website	News article	https://www.synikia.eu/warm-welcome-to-our-new-norwegian-spen-demonstration-project/
27	18/10/2022	DTU	Recent developments in multivariate wind and solar power forecasting	WIREs	Research paper	https://wires.onlinelibrary.wiley.com/doi/10.1002/wene.465
28	27/10/2022	HE, SIR	News item in syn.ikia's website and klimaaktiv: Austrian Climate Protection Ministry honours Austrian demo project.	Project website	News article	https://www.synikia.eu/austrian-climate-protection-ministry-honors-austrian-demo-project/
29	01/11/2022	NTNU, SINTEF,	Design and performance	Science Direct	Research paper	https://www.sciencedirect.com/science/ar

		IREC, ABUD, TNO	predictions of plus energy neighbourhoods – Case studies of demonstration projects in four different European climates			https://pii/S0378778822006181
30	01/12/2022	DTU, IREC	From white-box to grey-box modelling of the heat dynamics of buildings	In E3S web conference	Research paper	https://www.e3s-conferences.org/articles/e3sconf/abs/2022/29/e3sconf_bsn2022_12002/e3sconf_bsn2022_12002.html
31	20/02/2023	NTNU, HE	Article in syn.ikia/EXCESS/cultural-E websites: Understanding Positive Energy Buildings and Neighbourhoods - towards a common definition.	Project website	News article	https://www.synikia.eu/understanding-positive-energy-buildings-and-neighbourhoods-towards-a-common-definition/
32	02/03/2023	HE	Article in syn.ikia/Housing Europe website: When sustainability is not only about the green transition, but also about ensuring the well-being of residents.	Project website	News article	https://www.synikia.eu/when-sustainability-is-not-only-about-the-green-transition-but-also-about-ensuring-the-well-being-of-residents/
33	28/02/2023	HE	Post in Housing Europe newsletter	Project partner newsletter – Housing Europe	Newsletter mention	https://mailchi.mp/be/ea99226884/housing-europe-news-november-2017-issue-15605522?e=b94795edfa
34	20/04/2023	HE, SIR	Article in syn.ikia's website: Renovation for plus energy neighbourhoods meets	Project website	News article	https://www.synikia.eu/renovation-for-positive-energy-neighbourhoods-meets-social-housing-in-salzburg/

			social housing in Salzburg			
35	30/04/2023	HE	Post in Housing Europe newsletter	Project partner newsletter – Housing Europe	Newsletter mention	https://mailchi.mp/c3872779e9cf/housing-europe-news-november-2017-issue-15613418?e=b94795edfa
36	17/05/2023	TNO	From Buildings to Communities: Exploring the Role of Financial Schemes for Sustainable Plus Energy Neighborhoods	MDPI	Research paper	https://www.mdpi.com/1996-1073/16/14/5453
37	30/05/2023	BPIE	Article on syn.ikia/BPIE/BUILD UP/ UN Global Alliance for Buildings and Constructions website: Policy recommendations for sustainable plus energy neighbourhoods and buildings.	GlobalABC: the leading global platform for all committed buildings stakeholders	Featured article	https://globalabc.org/resources/publications/policy-recommendations-sustainable-plus-energy-neighbourhoods-and-buildings
38	19/06/2023	HE, NTNU	Article on syn.ikia/ARV website: Key takeaways from workshop on resident engagement practices during the ISHF 2023	Project website	News article	https://www.synikia.eu/key-takeaways-from-workshop-on-resident-engagement-practices-during-the-ishf-2023/
39	01/06/2023	HE	Section in Housing Europe Yearbook 2022.	Project partner website – Housing Europe	News article	https://www.housing-europe.eu/file/1170/download
40	2023	NTNU, IREC	Understanding Positive Energy Buildings and Neighbourhoods - towards a common definition	Projects cooperation: Cultural-E / EXCESS / syn.ikia	Discussion paper	https://www.synikia.eu/wp-content/uploads/2023/02/Understanding-Positive-Energy-Buildings-and-Neighbourhoods-

						towards-a-common-definition.pdf
41	15/02/2024	DTU	Adaptive flexibility function in smart energy systems: A linearized price-demand mapping approach	IEEE Xplore	Research paper	https://ieeexplore.ieee.org/document/10590768
42	23/05/2024	DTU	Stability analysis of nonlinear stochastic flexibility function in smart energy systems	Cornell University / arXiv	Research paper	https://arxiv.org/abs/2405.15099
43	23/08/2024	HE	What are the benefits of sustainable Plus Energy Buildings (PEBs) and Neighbourhoods (SPENs) beyond energy savings?	BUILD UP platform	Media coverage	https://build-up.ec.europa.eu/en/news-and-events/news/what-are-benefits-sustainable-plus-energy-buildings-pebs-and-neighbourhoods
44	19/10/2024	DTU	Recent Trends in Demand-Side Flexibility	Springer	Research paper	https://link.springer.com/chapter/10.1007/978-3-031-74741-0_12
45	06/12/2024	NTNU, IREC, ABUD, SIR, TNO	Energy and Indoor Environment Quality Performance Predictions for Multi-residential Projects in Four European Climates	Springer	Research paper	https://link.springer.com/chapter/10.1007/978-981-97-8313-7_64
46	2024	NTNU, IREC	Understanding Positive Energy Buildings and Neighbourhoods - towards a common definition	Cultural-E / syn.ikia / EXCESS	Discussion paper	https://www.synikia.eu/wp-content/uploads/2023/02/Understanding-Positive-Energy-Buildings-and-Neighbourhoods-towards-a-common-definition.pdf
47	2024	Housing Europe, TNO,	Speeding up the implementation of	Joint initiative (FME ZEN/ARV/syn.ik	Policy brief	http://synikia.eu/wp-content/uploads/2024/10/Policy-

		SINTEF, NTNU, BPIE	Zero-Emission Buildings and Neighbourhoods through targeted financial policies	ia/Cultural-E/EXCESS/Sup-e-i/Open Lab/EEMI)		Recommendation-Paper-Speeding-up-the-implementation-of-Zero-Emission-Buildings-and-Neighbourhoods-through-targeted-financial-policies-2024_FINAL.pdf
48	2024	SINTEF	Characterising the transdisciplinary challenge in the development of Sustainable Plus Energy Neighbourhoods – what do emerging innovations tell us?	IOP Science	Research paper	https://iopscience.iop.org/article/10.1088/1755-1315/1389/1/012008
49	2024	BPIE	Quantifying multiple benefits of sustainable plus energy neighbourhoods for investment and policy decision-making	Research Gate	Research paper	https://www.synikia.eu/wp-content/uploads/2024/09/Quantifying-multiple-benefits-of-SPEN.pdf
50	2024	DTU	Incentivising and Activating Multi-Purpose Flexibility for the Future Power System	DTU database	Research paper	https://backend.orbit.dtu.dk/ws/portalfiles/portal/374560637/Pages from Danish Utility Regulator s Antology vol.2.pdf
51	02/2025	DTU	Optimal price signal generation for demand-side energy management	Science Direct	Research paper	https://www.sciencedirect.com/science/article/pii/S2666955225000012

6. Podcasts

As part of the dissemination activities, three podcast episodes were planned. To facilitate the dissemination of the content, Housing Europe, as the lead partner in Communication, suggested merging the activity with its well-regarded podcast series, "Making a House a Home."

The Housing Europe 'Making a house a home' Podcast explores the essential role of public, cooperative, and social housing providers in Europe. Broadcasting from the European Capital, the series showcases how these providers create not just housing but real homes. Through expert insights and real-life stories, the podcast highlights the impact of affordable housing on urban, social, environmental, and economic issues, making it a valuable resource for policymakers at EU, national and local levels, researchers, experts in housing and adjacent sectors, and citizens interested in building inclusive and sustainable communities. These categories represent the target audiences of the podcast. With a total of **298 followers** and **8,780 all-platform plays**, this collaboration not only ensures the success of the syn.ikia podcast episodes but also enhances their longevity beyond the project's completion.

As a result, at the date of the submission of the present deliverable, the three episodes amassed a total of **500 plays** on Spotify. This is supported by visitors that access the Housing Europe and syn.ikia website.

A special attention was given to the guest invited for the episodes. In the first episode we have started from the ground, inviting representatives of the social housing provider and of the direct beneficiaries, the tenants, from the Dutch demo. For the other two episode we focused on European actors, namely a member of the European Parliament active in the energy area, MEP Brigitte van der Berg, and a former MEP but the current Co-president of the European Greens, Ciarán Cuffe, that reinforced the value of the syn.ikia project for a just transition that leave no one behind.

Episode 1: The social housing in the Netherlands that produces more energy than it consumes



A 'Making a house a home' podcast

The social housing in the Netherlands that produces more energy than it consumes!

Have a listen to the first episode of the syn.ikia podcast!

Tune in for an interesting conversation including the perspective of a social housing provider, care provider organisation and the tenants on what is it like to live in a Sustainable Plus Energy Neighbourhood.

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Loopkanstraat, Uden 

Illustration 1: first episode banner.

Published: 13.12.2022

Description:

Tackling climate change requires reducing greenhouse gas emissions while ensuring access to affordable, future-proof housing. The energy and building sectors play a crucial role in this transition, and part of the solution lies in Sustainable Plus Energy Neighbourhoods—communities that generate at least as much renewable energy as they consume annually. In this episode, recorded at Housing Europe’s 2022 Renovation Summit in Brussels, we explored how the EU-funded **syn.ikia** project is pioneering these neighbourhoods across different climates and markets in Europe.

We focused on the Dutch pilot in **Loopkanstraat, Uden**, where new energy-efficient add-ons are transforming existing buildings to meet plus energy standards. With insights from a social housing provider, a care organisation, and tenants, we discussed the challenges and benefits of adapting to this sustainable way of living.

Guests:

- Hugo de Vries (Manager Real Estate & Sustainability, Area Woonen)
- Maaïke van Orsouw (social project manager)
- Tenants ambassadors

Number of listening sessions by 21 March 2025 M63: 350

[Link to episode](#)

Episode 2: Watts needed: securing a just energy transition for housing



A 'Making a house a home' podcast

Watts needed: securing a just energy transition for housing

Have a listen to the new episode of the syn.ikia podcast!

Tune in for an interesting conversation on the intersection of **housing** and **climate policies**, examining how initiatives like Fit for 55 and the Energy Performance of Buildings Directive impact low-income households.

Brigitte van der Berg, MEP - The Netherlands

Julien Dijol, Policy Director, Housing Europe

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 869918.

Illustration 2: second episode banner.

Published: 14.02.2025

Description:

As Europe moves towards a fair energy transition, ensuring access to affordable, sustainable housing has never been more urgent. With the first-ever EU Commissioner for Housing, a dedicated Task Force within the European Commission, and the upcoming Affordable Housing Plan, housing policy is taking centre stage in Brussels.

In the second syn.ikia podcast, we returned to a crucial question straight from the European Parliament: how can we achieve a fair energy transition while ensuring access to affordable, sustainable housing?

This episode explored the intersection of housing and climate policies, examining how initiatives like Fit for 55 and the Energy Performance of Buildings Directive impact low-income households. Our guests, MEP Brigitte van der Berg, a leading voice in the European Parliament’s Special Committee on the Housing Crisis, and Julien Dijol, Policy Director at Housing Europe, share insights on the financial and regulatory solutions needed to scale up sustainable housing across Europe.

Guests:

- Brigitte van der Berg, Member of the European Parliament
- Julien Dijol, Policy Director, Housing Europe

Number of listening sessions by 21 March 2025 (M63): 78

[Link to episode](#)

Episode 3: Community buy-in wins half the battle for sustainable neighbourhoods



A 'Making a house a home' podcast

Community buy-in wins half the battle for sustainable neighbourhoods

Have a listen to the new episode of the syn.ikia podcast!

Tune in for another episode, where we discuss how the neighbourhood approach can be essential for decarbonising Europe's building stock.

Ciarán Cuffe,
Co-President of the European Greens

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 869918.

Illustration 3: third episode banner.

Published: 24.02.2025

Description:

We continue looking at a bold new approach to sustainable living—neighbourhoods that don't just cut energy use but actually generate more than they consume.

With the EU ramping up its housing and climate commitments, Sustainable Plus Energy Neighbourhoods (SPENs) are proving that entire districts can be energy-positive while remaining affordable and inclusive. One initiative leading the way is syn.ikia, an EU-funded project demonstrating how social housing providers across Europe can deliver these climate-friendly communities. But what will it take to move from pilots to widespread adoption?

To help us answer that, we were joined by Ciarán Cuffe, recently elected Co-President of the European Greens and a key architect of the recast Energy Performance of Buildings Directive (EPBD). We discussed why the neighbourhood approach is essential for decarbonising Europe's building stock, the biggest political and practical barriers to scaling up SPENs, and how the social housing sector can play a leading role in this transition.

And with major developments at the EU level—including the first-ever Commissioner for Housing, a European Commission task force working across policies, and growing momentum for a pan-European investment platform—could this be the breakthrough moment for energy-positive neighbourhoods?

Guest: Ciarán Cuffe, Co-President of the European Greens

Number of listening sessions by 21 March 2025 (M63): 72

[Link to episode](#)



