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FINAL VERSION

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Short Description
This deliverable describes the Final Conference of the ALPGRIDS project on »Microgrid solutions: A Win for Energy Communities in the Alps!«, which took place online on 8th of April 2022. The main objective of the conference was to present findings and results of the ALPGRIDS Alpine Space project.

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This document is issued by the consortium formed for the implementation of the ALPGRIDS project by the following partners:

AURA-EE - Auvergne-Rhône-Alpes Energy Environment Agency
IRE - Regional agency for Infrastructures, building Renovation and Energy of Liguria
W.E.I.Z. - Energy and Innovation Centre of Weiz
ENERGAP - Energy and Climate Agency of Podravje
4ER - 4ward Energy Research Ltd (in cooperation with Reiterer & Scherling GmbH)
DeMEPA - Design and Management of Electrical Power Asset
BAUM - B.A.U.M. Consult GmbH München
ROTH - Rothmoser GmbH & Co. KG
CNR - Compagnie Nationale du Rhône
UDINE - Municipality of Udine
SELNICA - Municipality Selnica ob Dravi
UNIGE - University of Genoa

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1. INTRODUCTION

This deliverable describes the Final Conference of the ALPGRIDS project on »Microgrid solutions: A Win for Energy Communities in the Alps!«, which took place online on 8th of April 2022. The main objective of the conference was to present and discuss findings and results of the ALPGRIDS Alpine Space project to local, regional and national public authority, sectorial agencies, European institutions, local and national stakeholders and representatives from the research field and companies, business support organisations and general public. A special focus was developed on the overall project experience in terms of challenges and lessons learned by the 12 project partners as well as the experts, the consultants and the different stakeholders involved in the project.

The ALPGRIDS final conference also provided the opportunity to present the results, the policy recommendations and the future outlooks of the project. Relevant speakers updated the participants, about 72 people from different field of private and public institutions, about the most innovative microgrid solutions, energy transitions in the Alps and Local Energy Communities. The conference was divided into three sessions. The first one was about the overview of the ALPGRIDS project, the second was a thematic session about developing enabling instruments and environment for collective energy actions and the last *closing* one was intended for the interactive session.

At the conference we also had a key note speaker, a member of EUSALP AG9, because the connection with them is very important; this will assure the durability of the ALPGRIDS project results and transnational cooperation beyond the project.

The invitation for the conference can be found in Annex A, the agenda for the conference can be found in Annex B, the list of participants in Annex C and the links of video recordings and PPT presentations of speakers at the conference in Annex D.



Photo 1: Final conference of ALPGIDS project

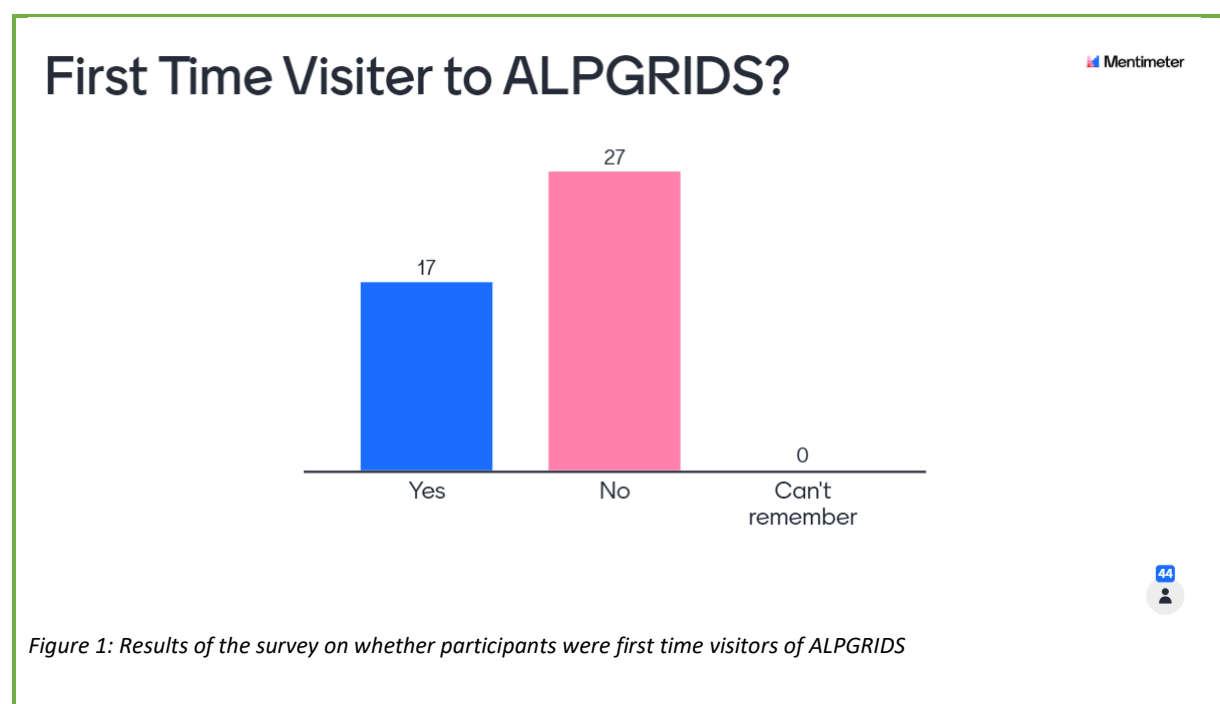
2. FINAL CONFERENCE

The host and moderator of the online final ALPGRIDS conference was **Thomas Nacht** from 4ward Energy Research organization. In the name of the whole ALPGRIDS project team he firstly welcomed all participants and wish them all a pleasant and interesting time with lots of good topics, discussions and presentations. He has introduced the whole program of the conference, which was divided into three sessions. The event started with the use of an Online pool – Mentimeter, to get some general informations from the participants on:

1. Who is new to the ALPGRIDS Project?
2. Which type of organisation do you belong to?
3. Are you involved in an energy community project?
4. What is your level of understanding about microgrids?

Here you can see results which were very interesting.

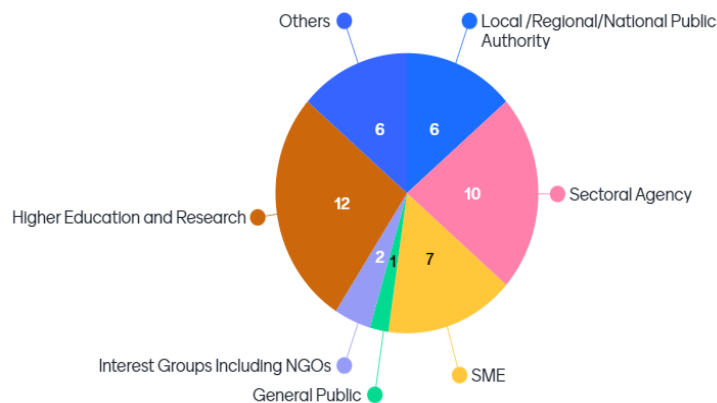
1. **Who is new to the ALPGRIDS Project?**



2. Which type of organisation do you belong to?

What's your background?

Mentimeter



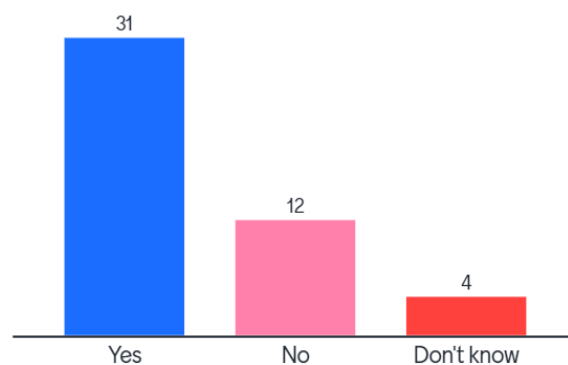
44

Figure 2: Results of the survey on the type of Organisations the participants are part of

3. Are you involved in an energy community project?

Are you involved in an Collective Energy Action Project

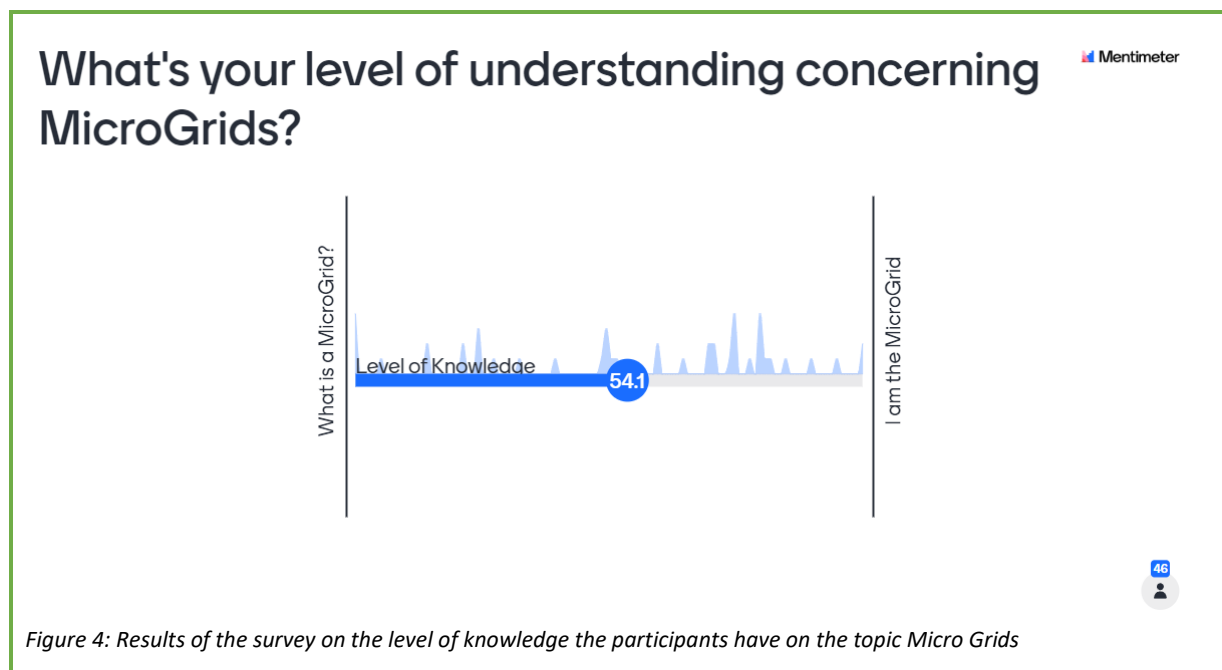
Mentimeter



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Figure 3: Results of the survey whether the participants are already involved in Collective Energy Actions

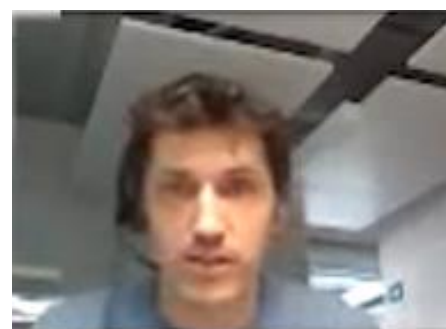
4. What is your level of understanding about microgrids?



According to these results we have found out that our project is interesting to a lot of people, because we can see that a lot of participants have joined us multiple times. But we also had some new visitors. A lot of participants which joined us were from sectorial Agencies and from the sector of Higher Education and Research and also from SME sector and from Public Authority. This information was quite important for the project because we have a lot of different target groups involved in the project. The results also showed that a lot of participants are involved in a Collective Energy Action Project. That was really a surprise and very good. It showed us that Collective Energy Action topics are an issue and that participants are eager for a new knowledge and information on this field despite that their knowledge of understanding microgrids is quite good.

2.1 Welcome and an overview of the ALPGRIDS project

The first session started with the Keynote Speech, on Energy transition in the Alps and what is at stake, from **Benjamin Auer** a member of EUSALP AG9 which is an EU Strategy for the Alpine Region and involves 48 Regions. In the EUSALP they have the opportunity to improve cross-border cooperation in the Alpine Space as well as identify common goals and implement them more effectively through transnational collaboration and to achieve Carbon neutrality. Their vision is "To make the territory a model region for energy efficiency and renewable energy".



Benjamin AUER
EUSALP AG9 co-leader



EUSALP EU STRATEGY FOR THE ALPINE REGION

www.alpine-region.eu

Clean, safe and low carbon generation



80 million people, 7 countries, 48 regions,
mountains and plains addressing together
common challenges and opportunities



Photo 2: Presentation of Benjamin Auer a member of EUSALP AG9

The new actions on which they are working now are the establishment of a cluster of renewable energy communities in the EUSALP area, identification and exchange of best practices and development of policy briefs/recommendations. They want to design effective policies at EU, national and regional levels starting with formulation of new policy recommendations which will be discussed at the Alpine level. Here they are relying on the recommendations coming from different Alpine space projects, as it is our ALPGRIDS project. Some of the recommendations are: to promote energy communities; to facilitate the exchange of knowhow and good practices of energy communities across the regions; to promote best business models; to support the development of toolkits to facilitate feasibility evaluation and economic sustainability...


After the Keynote speech the project ALPGRIDS and its activities was presented from **Patrick Biard**, head European and international affairs in AURA-EE and a lead partner of the ALPGRIDS project. At the start the ALPGRIDS promotional video was presented followed by a welcome to all participants that they have joined the final conference and discussions.




Patrick BIARD
AURA-EE



Patrick Biard presented the project giving an overview of the main activities and results achieved and undertaken in ALPGRIDS. The ALPGRIDS main activities focuses on increasing the uptake of renewable energy resources in the Alps through microgrid solutions supporting the deployment of new collective actions.

Key objectives






**Increasing
renewables uptake
through
MICROGRIDS
in the Alps**

- ✓ Develop a **shared understanding** about microgrid solutions and **collective energy actions** through pilots & transnational exchanges
- ✓ Create an **enabling policy environment** for microgrids and communities
- ✓ **Replicate** the findings in other Alpine territories



**Auvergne
Rhône-Alpes**
Energie Environnement

This project is co-financed by the European Regional Development Fund through the Interreg Alpine Space programme

Photo 3: Presentation of Patrick Biard from AURA-EE and Key objectives of the project ALPGRIDS

Under the project 8 pilots in 5 countries were developed. In addition to the pilots several transnational workshops were organized to share the knowledge and experiences. A Sounding Board network was also created and involves different policy makers. 13 replication partners were identified for implementing bi-lateral exchange between project partners and promoting organizations. Some of the activities are still ongoing as summer school and regional conferences- According to all the activities that have been done a lot of reports, briefs and outputs were prepared also in other national languages which you can find in the website of the project.

Michael Stöhr from B.A.U.M. Consult GmbH in Germany presented an Insights from 8 ALPGRIDS pilots: St Julien and Val de Quint, Drôme – two pilots from France; University Campus Savona and Udine – two pilots from Italy; Thannhausen and W.E.I.Z. Campus – two pilots from Austria; Selnica – pilot from Slovenia and Grafing – pilot from Germany. He pointed out that it is quite interesting that pilots are very different from each other and that legal frameworks are also very different in each of the countries, but despite that the conclusions and insides from these countries are at the end very similar.

2.2 Developing enabling instruments and environment for collective energy action

The thematic session of the conference followed with the presentation of **Michael Stöhr** from B.A.U.M. Consult GmbH in Germany. He presented the proposal for an Alpine Microgrid Model which is one of the key results of ALPGRIDS project. The proposal includes the definition of microgrids and why we are talking about them; potential benefits of using them; specifics for the Alpine Space area and the relevant EU framework on Citizens or Renewable Energy communities.



Michael STÖHR
B.A.U.M

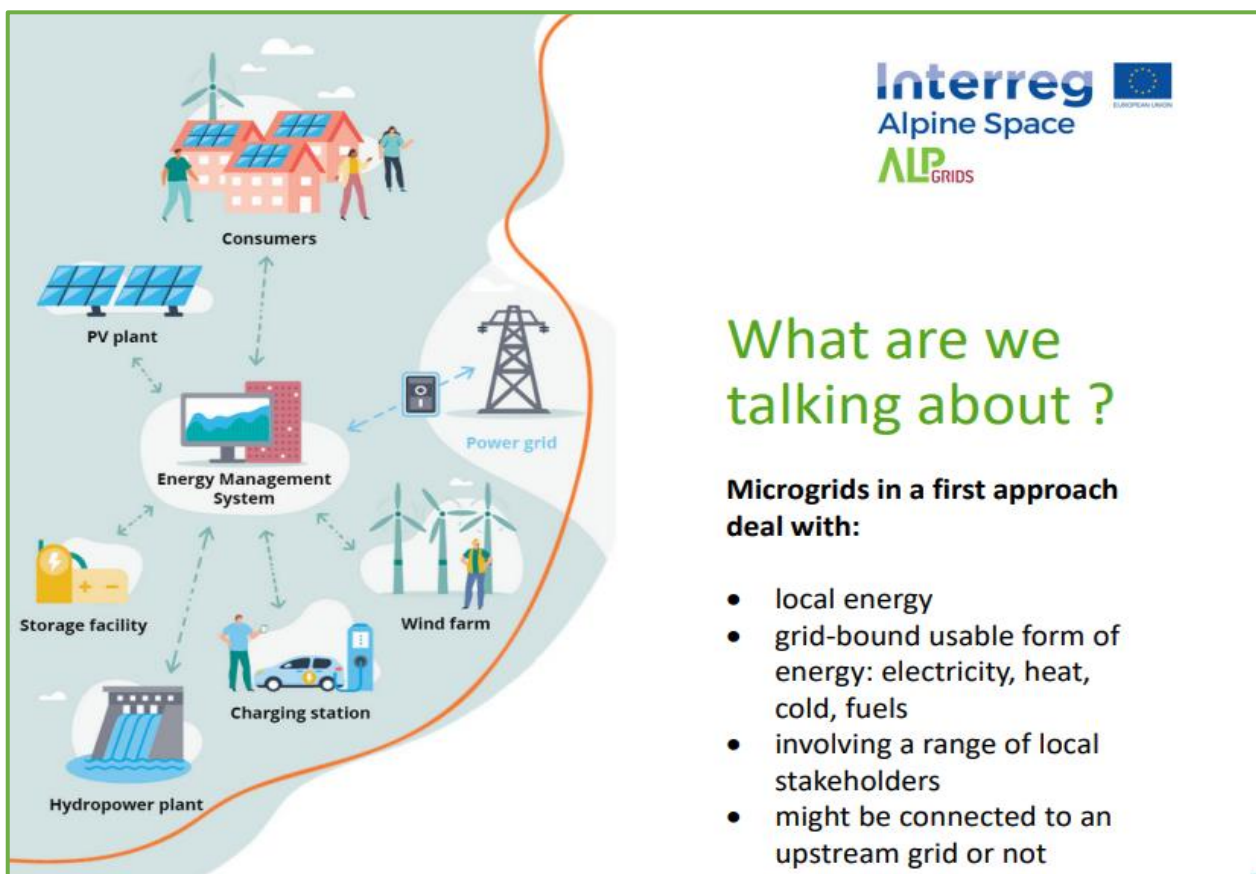


Photo 4: Presentation of Michael Stöhr from B.A.U.M. Consult GmbH about Microgrid Model

The second presentation of this session was intended to the pilot project partners. It was about the legal points of microgrids and about presenting different pilots. Pilot partners had the opportunity to present their short overview on their pilots and their different legal conditions and frameworks and how all this effect their work on developing pilots.

Pilot partners who presented their pilots and their action on them were:




- **Andrea Dornhofer** from Energy and Innovation Centre of Weiz who presented their two pilots in Austria (WEIZ and Thannhausen pilots) and their pilot activities, especially the advantages that they have now.

WEIZ & Thannhausen Pilots
WEIZ and Thannhausen sells their own PV energy to the direct line users

Interreg
Alpine Space
ALP GRIDS

Direct electricity connection 1 PV plant 29 kWp
8 User

Direct electricity connection between WEIZ 2 to WEIZ 1 – 60 kWp PV

Andrea DORNHOFER
Energy and Innovation Centre of Weiz


Photo 5: Two pilots presentation from Austria

- **Guillaume Bontron** from CNR and **Noémie Poize** from AURA-EE who presented their 7 pilots and work on them in France. They are working on two different schemes which we can see on the figure below.

French pilot site schemes

Interreg
Alpine Space
ALP GRIDS


1) Collective self – consumption for a single municipality



Distance < 2 km or 20 km (exception)

Sites : Montélier, St Marcel-les-Valence, Eurre

2) Collective self – consumption between a municipality and an energy community



Distance < 2 km or 20 km (exception)

Sites : La Chapelle-en-Vercors, Die, Saint-Julien-en-Quint

3) One other case : public municipality selling electricity to other consumers

Sites : La Roche-de-Glun

Pilot site
FRANCE

Noémie POIZE
AURA-EE

Photo 6: French pilots presentation

- **Michael Stöhr** from B.A.U.M. Consult GmbH and **Florian Rothmoser** from Rothmoser GmbH & Co. KG who presented their pilot activities in Germany. Michael Stöhr presented one significant problem in one law (actually one sentence in it) in Germany that prevented them to implement a pilot and about how they could solve this problem. Florian Rothmoser presented the analysis of amendment of EEG 2023.

Analysis of draft amendment of EEG 2023

An analysis of the rules relevant for tenant electricity (Mieterstrom) and Energy Communities shows:

Energy communities:

- Energy communities are exempted from the obligation to tender for PV power plants which fall under the EEG (present rule: no fixed feed-in tariffs, but obligation for tender for PV plants larger than 750 kW and for wind power plants).
- This reduces complexity of small and medium-size projects and increases the profit that energy communities can make with such projects.

Mieterstrom (tenant electricity):

- Apparently, it is not foreseen to change §21 Abs 3 Satz 2 (interdiction to use the public grid for exchange of electricity among participants of a tenant electricity model which falls under the EEG).

Conclusion:

- The draft amendment of the EEG 2023 does not indicate that energy sharing beyond the existing tenant electricity model will be enabled for models which fi under the EEG.



Michael STÖHR
B.A.U.M

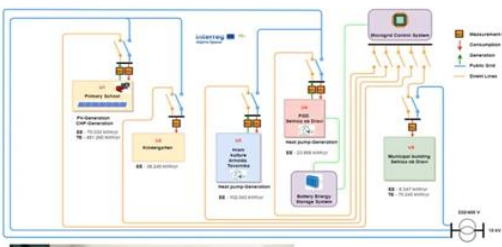





Florian ROTHMOSER
Rothmoser GmbH & Co.Kg

Photo 7: German pilot presentation and their obstacles in the law

- **Tomaz Robic** from ENERGAP who presented the pilot Selnica and its activities in Slovenia where they wanted to established a legal form of Energy Community in which the citizens will also have the opportunity to cooperate.

Microgrid Pilot 6: Selnica (SL)




Pilot site
SLOVENIA

Tomaz ROBIC
ENERGAP


Photo 8: Slovenian pilot presentation

- **Emanuele Cosenza** from SOGESCA and **Pasquale Motta** from DeMEPA who presented their pilot activities in Italy. They introduced microgrids and collective energy actions in local plans - LECs and RECs in Municipality Energy Plans (SECAP) of Udine and also on Italian regulation on Energy Communities.

Introducing LECs/RECs in Municipal Energy Plans (SECAP)

Interreg Alpine Space  **ALP GRIDS**

- Udine Municipality is a CoM signatory since 2009 (2020 targets)
- Consistently with the commitments signed, Udine presented the biennial monitoring of the SEAP
- In 2017 Udine joined the EU H2020 Compete4SECAP (C4S) Project
 - C4S activities: SECAP development, ISO 50001 certification, Competition about final energy uses in LA's buildings.
- In 2017 Udine signed the "new CoM initiative" (2030 targets)
- In 2021 Udine finalized and approved its SECAP



2009

Badge

MITIGAZIONE


Phases: 5 completed out of 6

Inventory Target Plan

ADATTAMENTO

Assessment Goal Plan

Note on badges



Udine

Paese	Numero di abitanti
Italy	99.071
Tipo di adesione	
Individuale	
Data di adesione	
2009-11-30	

Pilot site
ITALY

Emanuele CONSENZA
SOGESCA

Photo 9: Italian pilot activities and introduction of collective energy actions in local plans

At the end of a thematic session **Ludwig Karg** from B.A.U.M. Consult GmbH presented a controversial view on collective energy actions. Energy Communities are his favourable topic. He presented the benefits of Energy Communities, some interesting examples from the real life on how Energy Communities meet their needs (typical stakeholders... young family in own house, elderly couple in self-owned flat, student in dormitory, world travelling couple, a widow and aging company owner) and how to approach to each different group to reach planned goals.



2.3 Interactive session: Key take-aways from it

The last event session was for the participants and their feedbacks, experiences and discussions. The participants were divided into two groups on different topics:

- One topic was moderated from **Patrick Biard** and it was for discussions on the ALPGIDS Microgrid Model.
- The second topic was moderated from **Thomas Nacht** and it was for discussions and exchange of experiences, barriers and recommendations on Collective Energy Actions and policy measures for microgrids.

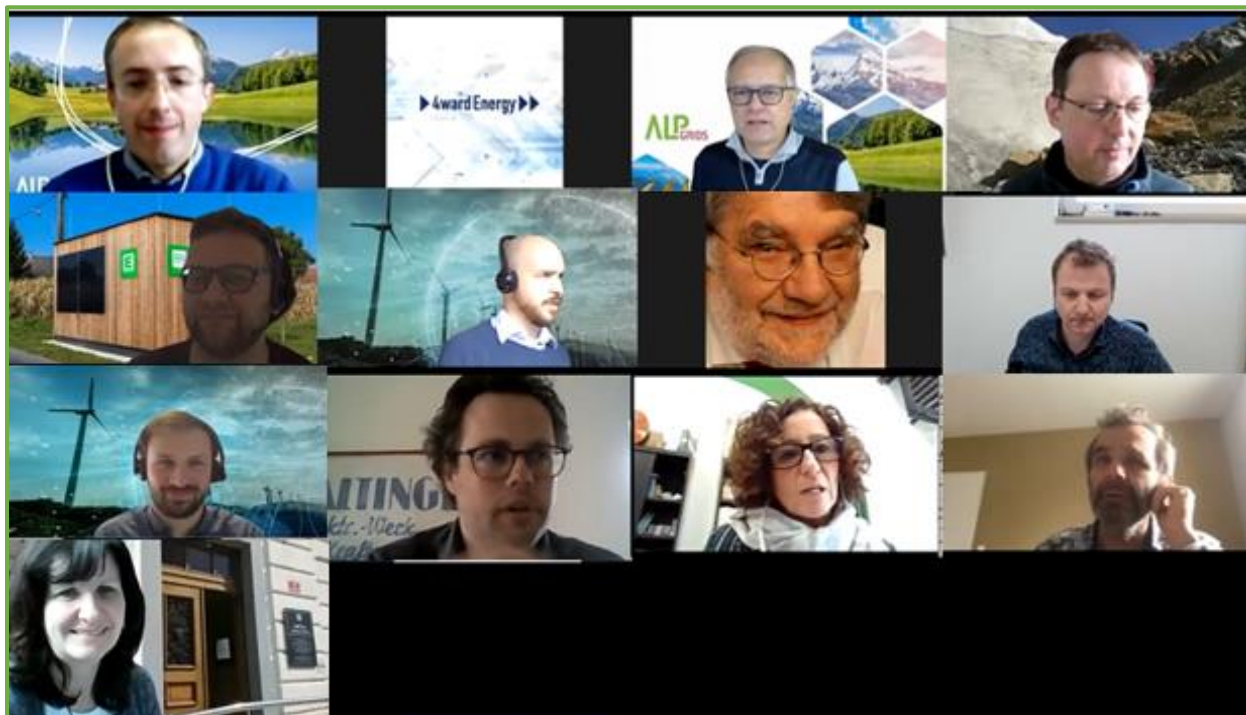


Photo 10: Interactive session with event participants

In the first breakout session were participants discussed about ALPGRIDS Microgrid model the two groups were asked three sets of questions. The first one was on driving forces for microgrids and collective energy actions in the Alps, the second was about a definition of Alpine Microgrid Model and the third one on the benefits of Alpine Microgrid Model. After getting all those answers an open discussion on that topic started.

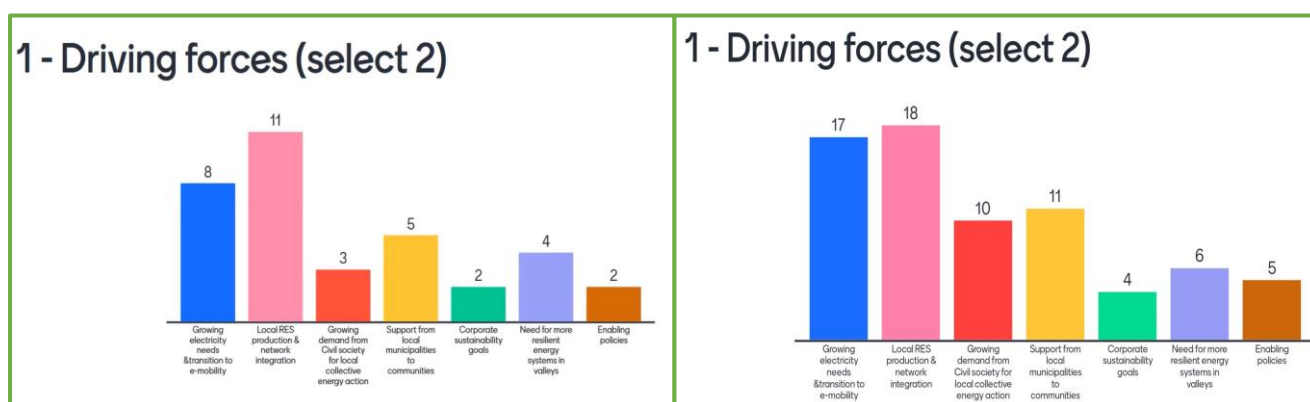


Figure 5: The results of the Survey in the two breakout-sessions on the first question: Driving forces for microgrids and collective energy actions in the Alps

2 - Definition (select 1)

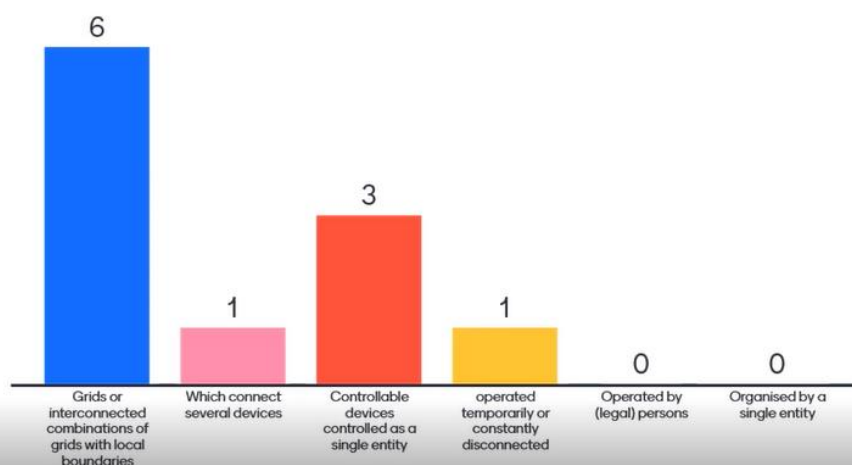


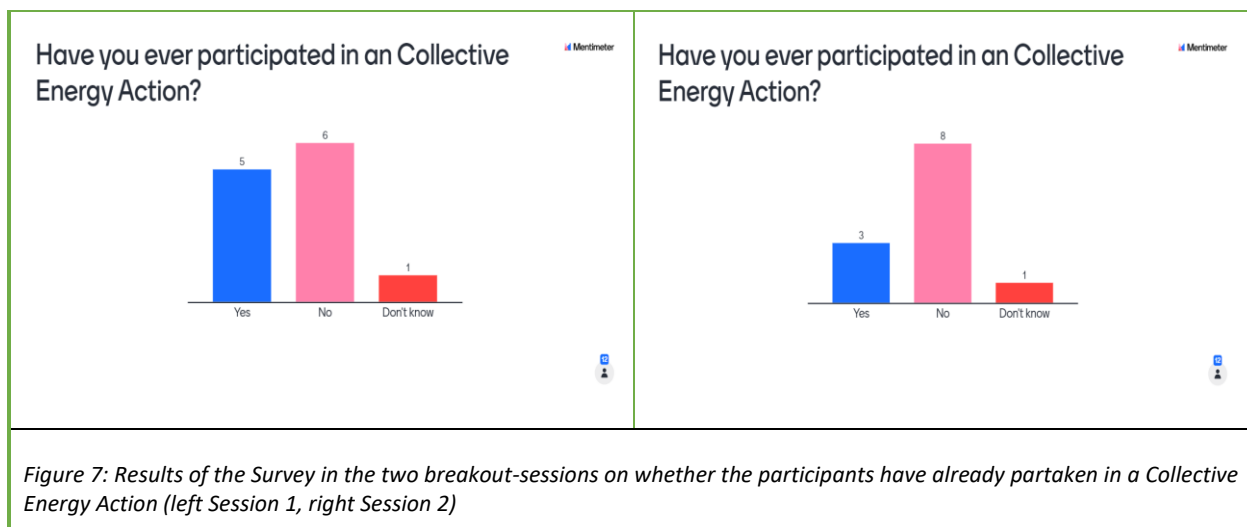
Figure 6: The results of the Survey in one of the breakout-sessions on the second question: Alpine Microgrid Model definition

The results are quite similar. The discussion between participants was very interesting. The important conclusions that we had highlighted are:

- The importance of the integration of renewables sources and electric vehicles infrastructure in power networks with particular intension to low and medium voltage of distribution networks.
- The importance to develop a Smart Charging Strategies.
- The importance to increase the awareness of citizen and the rules of Municipalities.
- From the technical point of view, it is important to know how to operate with microgrids. How to increase a reliability of the energy provision to also increase the technical aspects of the mobility and to reduce the costs of some device, such as software and hardware platforms.
- From the economic point of view, it is important to compare market prices with the production costs of the power plants in stool of microgrids and energy communities.

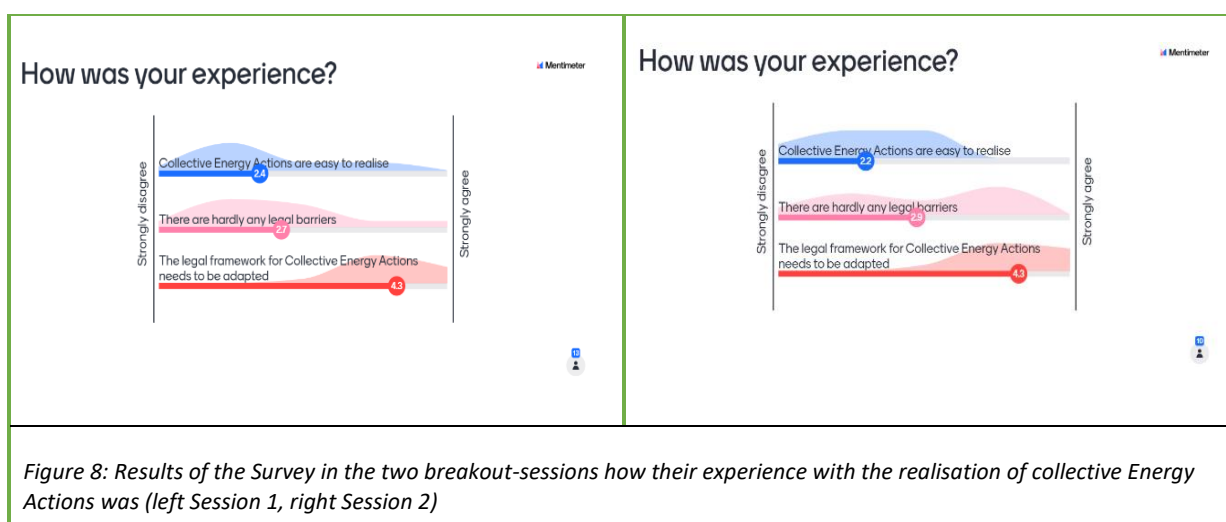
Before the start of the actual discussions on the second topic were participants discussed and exchange the experiences, barriers and recommendations on Collective Energy Actions and policy measures for microgrids in the breakout sessions, the two groups were asked two sets of questions in order to get a feeling for their past experience on Collective Energy Actions.

Figure 7 shows the results of the first question, the left-hand side diagram shows the results for the first group, the right-hand side the results for the second group.



Surprisingly there was a majority of participants who have not yet participated in Collective Energy Actions. Overall, the participation was around 50% in the polls, which is ok for an online conference where people often tend to leave the computer and the breakout sessions started directly after a break.

The second question was on the overall experience with Collective Energy Actions and even though many have claimed, that they have not yet participated in such actions, they still had partially strong opinions on the statements made.



The results of both groups of the breakout sessions are quite similar. When it comes to the question of whether a Collective Energy Action is easy to realise there is a tendency to not agree with the statement. The second group achieved a more even distribution of opinions in this question but in overall the results (2.4 and 2.2 on a scale of 1 (strongly disagree) to 5 (strongly agree)) were similar.

For the assumption that Collective Energy Actions meet hardly any barriers results were a bit more positive. Both groups slightly agree to the assumption (2.7 and 2.9) but the distribution of opinions differ greatly between the two groups, with group 2 having members that strongly agree with the assumption, which is not the case for group 1.

The last assumption reached very similar results in both groups, with a result of 4.3 both groups agreed and showed similar distributions of opinions, the members of the break-out sessions think that the regulatory framework needs to be adapted to better enable Collective Energy Actions.

After the initial round of polls, the discussion started in both groups. The main findings of the discussions were:

- One of the main challenges of Collective Energy Actions is the issue with a massive administrative overhead needed to start and maintain these actions. This was reported from France, Germany and Austria. In Italy the opinions differed a little between the sessions. In the first session the opinion was that there are not that many administrative barriers in order to start a Collective Energy Actions, in the second break-out session a different opinion was presented. But in general, one of the key challenges for Collective Energy Actions seems to be the administrative efforts required.
- In Germany the issue was raised, that given the current state of the law only the “Mieterstrom-Modell” can be employed as a Collective Energy Action, and as mentioned above, the challenges for that are substantial.
- Furthermore, technical issues were raised for the net metering scheme applied in some countries, which causes further costs and thus decreases the attractiveness of such schemes.
- Another issue that was raised concerning the Collective Energy Actions “Mieterstrom-Modell” was that as a tenant of a flat you have hardly any option to start of such a scheme by yourself as you would always need the owner of the flat to also participate and contribute.
- Finally, the financial benefits of the Collective Energy Actions in different countries were discussed. In Germany a Mieterstrom-Modell would for instance reduce the costs for electricity by around 3 cent/kWh in Austria a comparable model would reduce the costs significantly more as the Mieterstrom-Modell is basically an own-consumption model. In France there are no immediate benefits for collective self-consumption but a high feed in tariff is provided for such schemes. In Italy there are hardly any financial benefits as the participant of a Collective Energy Actions can only save 1 cent / kWh.

3.CONCLUSIONS

This event was a final public opportunity to present ALPGRIDS project findings and results on Microgrid solutions: A Win for Energy Communities in the Alps. The conference successfully brought together stakeholders and different target groups, as from sectorial Agencies and from the sector of Higher Education and Research and also from SME sector and from Public Authority.


Not only did the final conference promote and disseminated the main goals and results of ALPGRIDS project that they were reached and achieved, but it reinforces the participation of stakeholders and other target groups with one another.

It was very interesting that a lot of participants are already involved in a Collective Energy Action Projects. The event also showed us that Collective Energy Action topics are an issue and that participants are eager for a new knowledge and information on this field despite that their knowledge of understanding microgrids is quite good. But there are a lot of barriers that have to be overcome, as legal framework on collecting energy actions almost in each of project partners countries and also the administrative issues.

At the end project results and all outputs will be transferred through different communication channels to relevant target groups, decision makers and outside the Alpine Space through the future actions of stakeholders and all involved with the project.

4. ANNEXES

4.1 Agenda



Microgrid solutions: A Win for Energy Communities in the Alps!
Findings and results of the ALPGRIDS Alpine Space project

The Conference will take place **online on Friday, 8th of April, 2022 at 9:00 a.m.** Please use following access link to participate at the event:
<https://us02web.zoom.us/j/81754752199?pwd=ZjRRRUJvWEkQmVJYUUVGL3ZWaVdaUT09>

Final Conference - Agenda

Moderator: Thomas Nacht - 4ward Energy Research GmbH

09:00 – 09:55

Welcome and overview of the ALPGRIDS project

- Welcome and arrival
- Keynote Speech - Energy transition in the Alps, what is at stake? – *Benjamin Auer (EUSALP AG9 co-leader)*
- ALPGRIDS project in brief and key results – *Patrick Biard (AURA-EE)*
- Insights from ALPGRIDS pilots – *Michael Stöhr (B.A.U.M)*

10:00 – 10:50

Thematic session 1: Developing enabling instruments and environment for collective energy actions

- ALPGRIDS proposal for an Alpine Microgrid Model - *Michael Stöhr (B.A.U.M)*
- Creating and enabling environments for microgrids supporting collective energy actions – from status quo to micro grid friendly policy environment – *project partner*
- A controversial view on Collective Energy Actions – *Ludwig Karg (B.A.U.M)*

11:00 – 12:00

Thematic session 2: Interactive session

- World-Café about the two topics
 - Feedback and discussion of the ALPGRIDS Microgrid Model – *Moderator: Patrick Biard*
 - Discussion and exchange of experiences, barriers and recommendations on collective energy actions and policy measures for microgrids – *Moderator: Thomas Nacht*
- Conclusion

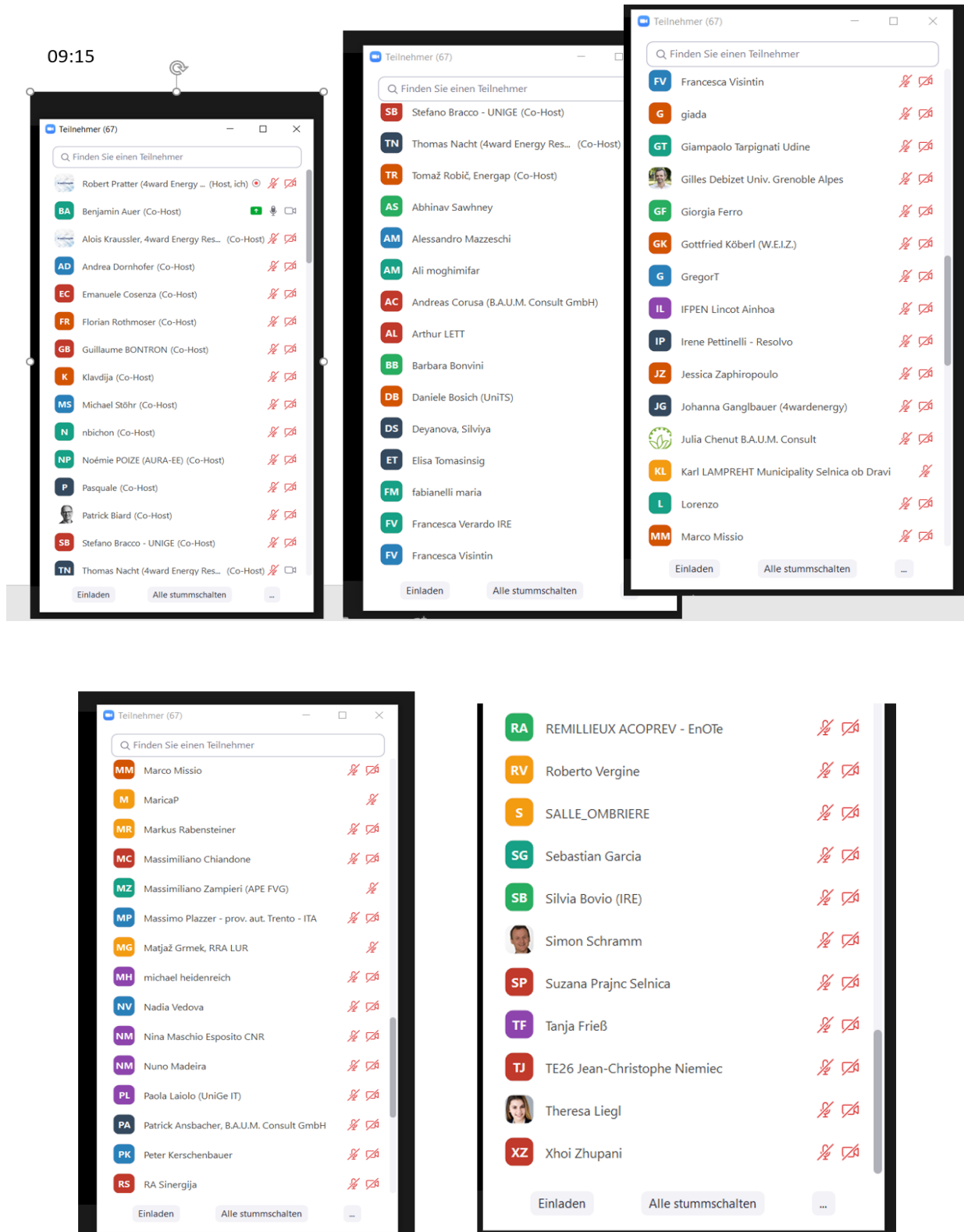
For further information please visit our project homepage: <https://www.alpine-space.org/projects/alpgrids/en/home>

Welcome and join us!

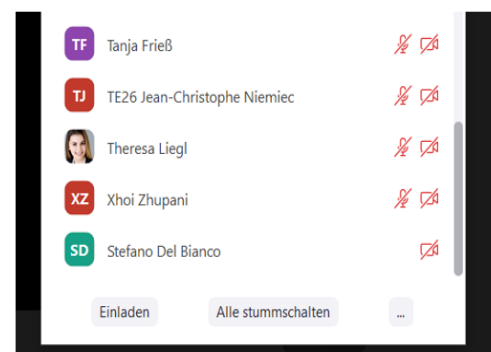
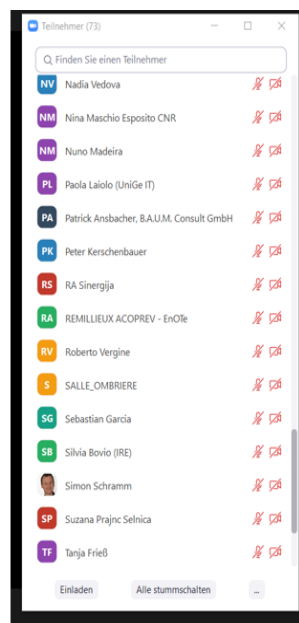
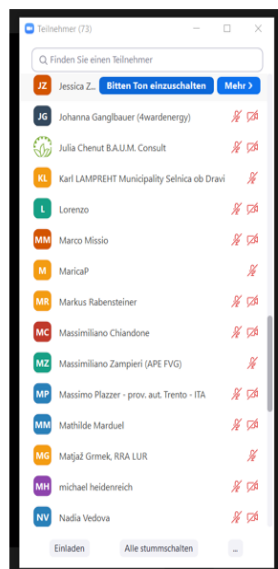
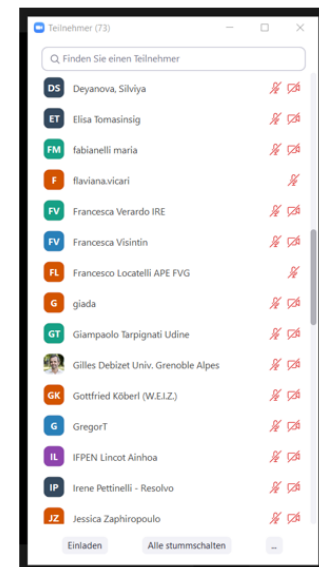
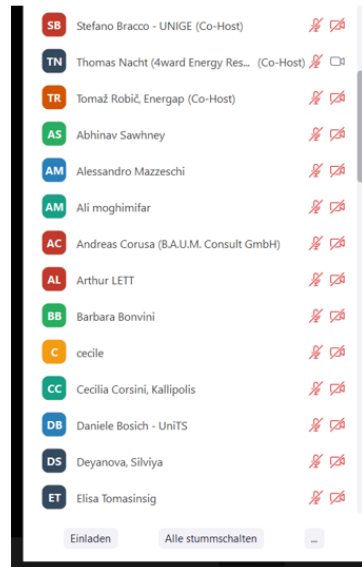
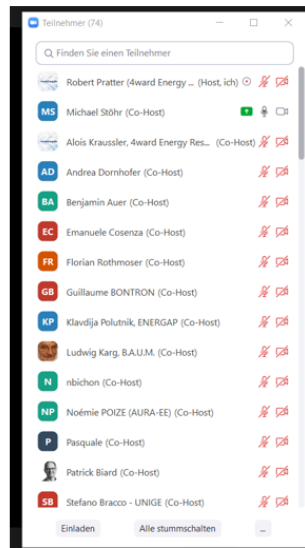
ALPGRIDS is co-financed by the European Regional Development Fund through the Interreg Alpine Space Programme

4.2 List of participants

The screenshots of the participants have been done twice. The first one at 09:15 and the second one at 10:00.











10:00 – 73 Participants



4.3 Presentations

All presentations are available on the project website under the communication results _ Final conference on the link here <https://www.alpine-space.org/projects/alpgrids/en/project-results/wp-c-communication/d.c.3.2---alpgrids-final-conference-takeaways>

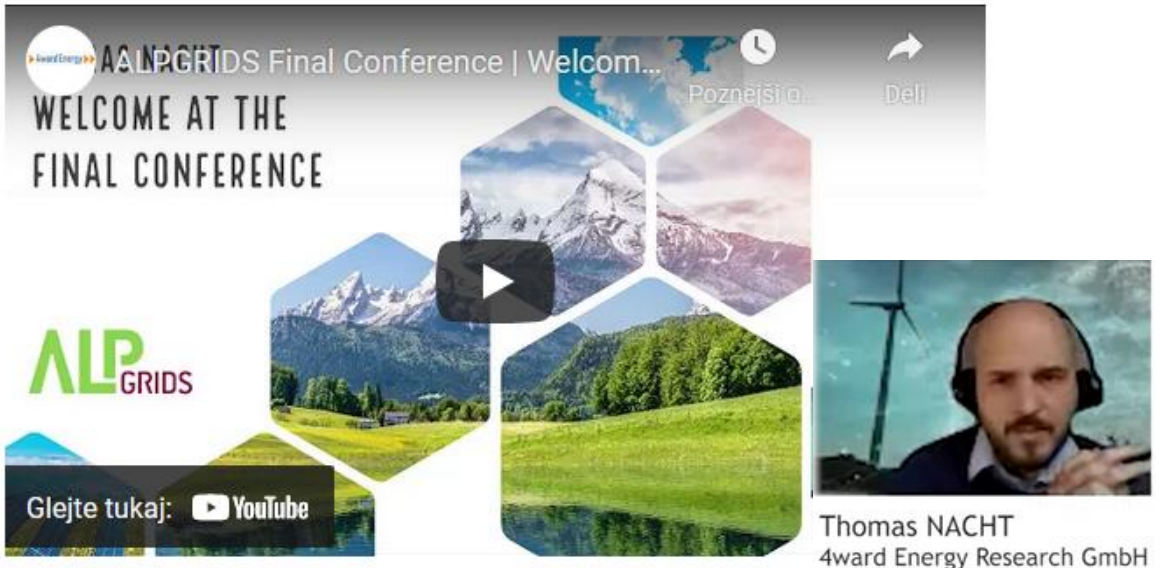
ALPGRIDS final conference presentations


 Welcome at the ALPGRIDS final conference 0.79 mb Thomas Nacht	 Energy transition in the Alps, what is at stake? 2.46 mb Benjamin Auer	 Project overview 1.01 mb Patrick Biard	 Insights from ALPGRIDS pilots 1.55 mb Michael Stöhr
 Alpine Microgrid model 0.5 mb Michael Stöhr	 Creating and enabling environments for microgrids 1.62 mb Creating Environments	 A controversial view on Collective Energy Actions 0.68 mb Ludwig Karg	 Interactive session 0.17 mb Alpine Microgrid Model

4.4 Video records of presenters

All video records of presenters are available on the project website under the communication results _ Final conference, on the link here <https://www.alpine-space.org/projects/alpgrids/en/project-results/wp-c-communication/d.c.3.2---alpgrids-final-conference-takeaways>

ALPGRIDS Final Conference | Thomas Nacht - Welcome



Glejte tukaj:  YouTube

Thomas NACHT
4ward Energy Research GmbH

ALPGRIDS Final Conference | Benjamin Auer

ALPGRIDS Final Conference | Benjamin Auer

ENERGY TRANSITION IN THE ALPS, WHAT IS AT STAKE

ALP GRIDS

Glejte tukaj: [YouTube](#)

Benjamin AUER
EUSALP AG9 co-leader

ALPGRIDS Final Conference | Patrick Biard

ALPGRIDS Final Conference | Patrick Biard

PROJECT OVERVIEW

ALP GRIDS

Glejte tukaj: [YouTube](#)

Patrick BIARD
AURA-EE

ALPGRIDS Final Conference | Michael Stöhr – Insights

ALPGRIDS Final Conference | Michael Stöhr

INSIGHTS FROM ALPGRIDS PILOTS

ALP GRIDS

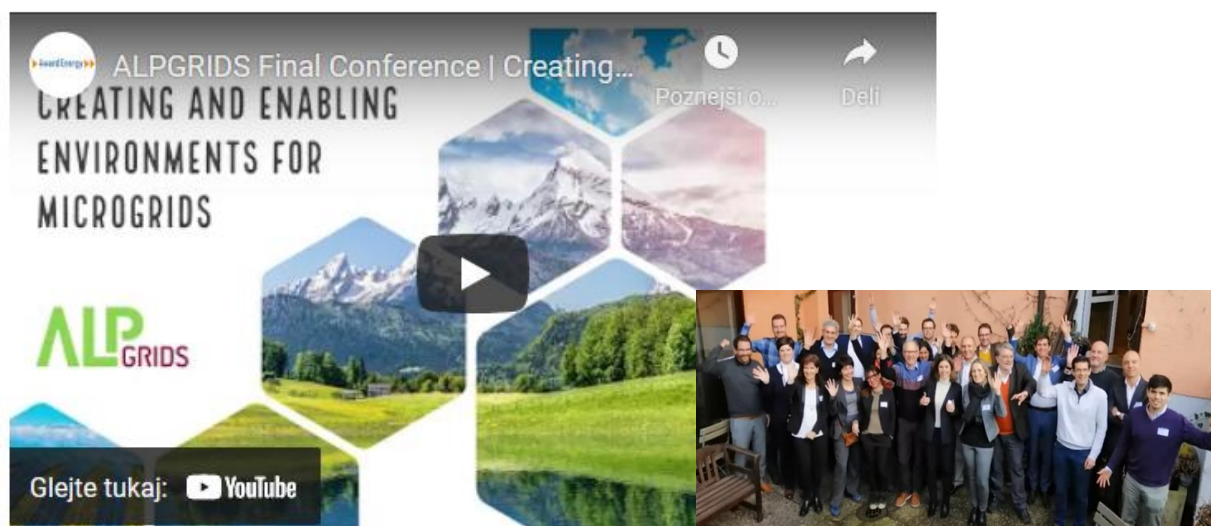
Glejte tukaj: [YouTube](#)

Michael STÖHR
B.A.U.M

ALPGRIDS Final Conference | Michael Stöhr – Alpine Microgrid Model



ALPGRIDS Final Conference | Creating Environments



ALPGRIDS Final Conference | Ludwig Karg

