

REGIONAL ENERGY SYSTEM VISION 2040 CHALLENGE

2-6.SEPTEMBER.2024

SAP OVERVIEW

Energy autonomy or energy self-sufficiency? What is often confused in the press is a central question for the future energy system, especially in rural regions in Europe. In this Challenge SAP, we want to take a look at the difference between the two terms and use the example of Vorarlberg to show that only energy autonomy, but not energy self-sufficiency, can lead to a sustainable energy system. In short impulse lectures the students will learn important basics, which they will further deepen in a playful approach in group work. The goal is to develop a vision for Vorarlberg's energy system in 2040 and to reflect on its transferability to the regions of the other RUN partners. Due to the interdisciplinary approach of the Challenge SAP, participation is not only possible for students from technical courses, but also for students from all other disciplines with an interest in energy systems of the future.

LEARNING OUTCOMES

At the end of this RUN-EU SAP

- students know the necessary building blocks of an energy system,
- they are able to assess supply and demand in regional energy systems,
- they find solutions to the interplay of different technical solutions,
- and recognise the need to incorporate non-technical aspects.

+INFO: www.run-eu.eu

Organised by: FHV
HAMK

DATE From **2 to 6 September 2024**

Face-to-Face Week: FHV, Dornbirn, Austria 2-6 September

MODE OF DELIVERY In-person

LANGUAGE OF INSTRUCTION English

ECTS CREDIT 1

ACADEMIC RECOGNITION

To be defined by each Home Institution. Generally, most students will have this SAP certified in their Diploma Supplement, as a minimal condition.

ELIGIBLE PARTICIPANTS

All RUN-EU students.

Priority is given to the members of Student Councils in each RUN-EU member universities.

HOW TO APPLY

Fill in the application form (**QR or website**)



DEADLINE FOR APPLICATIONS

1 April 2024

CONTACT DETAILS

Preißinger Markus (FHV), markus.preissinger@fhv.at

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SELECTION CRITERIA

Background and motivation (based on 2 questions within the registration process). A maximum of 25 students will be selected for this programme. The selection team will take steps towards ensuring a diverse group of students.

LEARNING AND TEACHING STRATEGY

Active learning, learner-centred teaching, collaborative methods. Mixture of input from experts in the field, group work, problem solving tasks and group discussions.

PREREQUISITES

No specific prerequisites.

COURSES LEADERS | LECTURERS

Courses leader

Preißinger Markus (FHV)

Lecturers

Knorr Anna (FHV)

Kontu Kaisa (HAMK)

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PHYSICAL MOBILITY | SCHOLARSHIPS AVAILABLE

The lump sums will be announced later within the RUN-EU 2.0 framework.

MEANS AND CRITERIA FOR ASSESSMENT

Final presentation.

CERTIFICATION

The participants who successfully complete this RUN-EU SAP will receive a Certificate of Participation and a Transcript of Records jointly issued by the organising institutions.

REFERENCE READING

No reference reading necessary.

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2-6. SEPTEMBER. 2024

PROGRAMME AT A GLANCE

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	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT+2											
GMT+1	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
MONDAY 2/09	WEL-COME	INTRODUCTION TO ENERGY SYSTEM VORARBERG	THE FUTURE ENERGY SYSTEM	LUNCH BREAK	THE FUTURE ENERGY SYSTEM	SOCIAL PROGRAMME					
TUESDAY 3/09	BUILDING BLOCKS OF FUTURE ENERGY SYSTEMS	STORY TELLING	LUNCH BREAK	BUILDING BLOCKS OF FUTURE ENERGY SYSTEMS	STUDENT COUNCIL MEETING	CAMPUS TOUR					
WEDNESDAY 4/09	BUILDING BLOCKS OF FUTURE ENERGY SYSTEMS	STORY TELLING	LUNCH BREAK	BUILDING BLOCKS OF FUTURE ENERGY SYSTEMS	MEET THE REGION						
THURSDAY 5/09	STORY TELLING	PREPARE PRESENTATIONS	LUNCH BREAK	PRESENT RESULTS	OVERALL QUALITY ASSESSMENT	POSTER SESSION					
FRIDAY 6/09	GENERAL ASSEMBLY	SOCIAL PROGRAMME									

REGIONAL ENERGY SYSTEM VISION 2040 CHALLENGE

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2 SEPTEMBER

MONDAY 9h00-19h00 - FHV

GMT+2	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT+1	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
MONDAY 2/09	WEL- COME	INTRODUCTION TO ENERGY SYSTEM VORARBLERG	THE FUTURE ENERGY SYSTEM	LUNCH BREAK	THE FUTURE ENERGY SYSTEM			SOCIAL PROGRAMME			

Welcome

- 🕒 9h00-9h45
- 👥 Get together
- 👤 All lecturers
- 📄 Get-together of all 5 Challenge SAPs and Welcome.

The Future Energy System

- 🕒 14h00-17h00
- 👥 Group Work
- 👤 Preißinger Markus(FHV)
Knorr Anna (FHV)
Kantu Kaisa (HAMK)
- 📄 Structuring topics from speed brainstorming, building blocks of content-related topics and building teams that address these blocks. First evaluation of the topics within the different teams.

Introduction to Energy System Vorarlberg

- 🕒 10h00-11h30
- 👥 Presentation
- 👤 Preißinger Markus (FHV)
- 📄 Insight into two studies conducted by FHV: 1) Energy Scenarios Vorarlberg 2030 and 2) Hydrogen Study Vorarlberg. Both studies build the framework of the challenge of this SAP: building a future energy system for rural areas.

Social Programme

- 🕒 17h00-19h00
- 👥 Social Activity (tba)

The Future Energy System

- 🕒 11h30-12h30
- 👥 Group Work
- 👤 Preißinger Markus (FHV)
Knorr Anna (FHV)
Kantu Kaisa (HAMK)
- 📄 Speed brainstorming about the necessary topics that have to be covered to develop a future energy system, e.g., energy demand, energy supply, stakeholders.

REGIONAL ENERGY SYSTEM VISION 2040 CHALLENGE

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3 SEPTEMBER

TUESDAY 9h00-17h30 - FHV

GMT+2	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
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GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
TUESDAY 3/09	BUILDING BLOCKS OF FUTURE ENERGY SYSTEMS		STORY TELLING	LUNCH BREAK	BUILDING BLOCKS OF FUTURE ENERGY SYSTEMS		STUDENT COUNCIL MEETING		CAMPUS TOUR		

Building Blocks of Future Energy Systems

🕒 9h00-11h30

👥 Group Work

👤 Preißinger Markus (FHV)
Knorr Anna (FHV)
Kantu Kaisa (HAMK)

📄 Working on the different building blocks of future energy systems with a special emphasis on the demand side, e.g., industrial sector, building sector, mobility sector.

Story Telling Summary and Challenges

🕒 11h30-12h30

👤 Presentation

👤 Preißinger Markus (FHV)

📄 Input on how to sum up preliminary results and how to present challenges. Introduction to storytelling in science and how it can be used for presenting SAP results.

Building Blocks of Future Energy Systems

🕒 14h00-16h00

👥 Group Work

👤 Preißinger Markus (FHV)
Knorr Anna (FHV)
Kantu Kaisa (HAMK)

📄 Working on the different building blocks of future energy systems with special emphasis on the supply side, e.g., hydro power, photovoltaic, wind energy, and biomass.

Student Council Meeting / Campus Tour

🕒 16h00-17h30

👥 Meeting & Tour

👤 tba

📄 Representatives of the RUN-EU Student Councils will participate in their annual council meeting to discuss the activities implemented, review the progress of RUN-EU 2.0 and provide recommendations on future activities. For students, who are not Student Council representatives, campus tours will be offered.

REGIONAL ENERGY SYSTEM VISION 2040 CHALLENGE

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4 SEPTEMBER

WEDNESDAY 09h00-18h00 - FHV

GMT+2	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT+1	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
WEDNESDAY 4/09	BUILDING BLOCKS OF FUTURE ENERGY SYSTEMS		STORY TELLING	LUNCH BREAK	BUILDING BLOCKS OF FUTURE ENERGY SYSTEMS		MEET THE REGION				

Building Blocks of Future Energy Systems

🕒 9h00-11h30

👥 Group Work

👤 Preißinger Markus (FHV)

Knorr Anna (FHV)

Kantu Kaisa (HAMK)

📄 Working on the different building blocks of future energy systems with a special emphasise on fitting the demand side with the supply side.

Story Telling Results that stick

🕒 11h30-12h30

👥 Presentation

👤 Preißinger Markus (FHV)

📄 Input on story telling with a special emphasise on stories that stick and how the concept which originally comes from marketing can be used for presenting the results of the SAP.

Building Blocks of Future Energy Systems

🕒 14h00-16h00

👥 Group Work

👤 Preißinger Markus (FHV)

Knorr Anna (FHV)

Kantu Kaisa (HAMK)

📄 Working on the different building blocks of future energy systems with a special emphasise on the specific issues, e.g., demand side management, and grid stability.

Meet the Region

🕒 16h00-18h00

👥 Networking Event

👤 tba

📄 Meet the Region offers a platform to get to know regional stakeholders and to gain insight into what makes the region of Vorarlberg special.

REGIONAL ENERGY SYSTEM VISION 2040 CHALLENGE

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5 SEPTEMBER

THURSDAY 09h00-19h00 - FHV

GMT+2	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT+1	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
THURSDAY 5/09	STORY TELLING	PREPARE PRESENTATIONS			LUNCH BREAK	PRESENT RESULTS		OVERALL QUALITY ASSESS- MENT	POSTER SESSION		

Story Telling How to convince the Management

- 🕒 9h00-10h00
- 📄 Presentation
- 👤 Preißinger Markus (FHV)

📄 Input on how to present key results to the management of a company and how to prepare uncommon presentations and posters that stand out from the mainstream.

Prepare Presentations

- 🕒 10h00-12h30
- 📄 Group Work
- 👤 Preißinger Markus (FHV)
- 👤 Knorr Anna (FHV)
- 👤 Kantu Kaisa (HAMK)

📄 Preparation of presentation and poster for the vision of a rural energy system 2040.

Present Results

- 🕒 14h00-15h30
- 📄 Group Work
- 👤 Preißinger Markus (FHV)
- 👤 Knorr Anna (FHV)
- 👤 Kantu Kaisa (HAMK)

📄 Presentation of the vision of a rural energy system 2040.

Poster Session

- 🕒 17h00-19h00
- 📄 Presentation
- 👤 Students

📄 Students present their work (highlights of the week, key learnings, results of final presentation) on poster.

SHORT
ADVANCED
PROGRAMME

RUN
REGIONAL
UNIVERSITY
NETWORK

EUROPEAN UNIVERSITY

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6 SEPTEMBER

FRIDAY 09h00-12h00 - FHV

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FRIDAY
6/09

GENERAL ASSEMBLY

SOCIAL PROGRAMME

General Assembly / Social Programme

🕒 9h00-12h00

🗺️ Social Activity

👤 tba

📄 Participants who are not participating in the General Assembly can join in some optional Social Activity to explore the local culture, attractions, and nature.



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them. Grant Agreement Number: 101124674.