

Green Line SIHU 200

Meeting type: 6th twinning meeting

Date and place: 23.06.2021 via zoommeeting

Nr. of participants: 21

Nr. of municipalities (SI): 3 (Municipality of Turnišče, Municipality of Razkrižje, Municipality of Zgornja Kungota)

Nr. of municipalities (HU): 4 (Zala County Government, Hévíz, Letenye and Óriszentpéter)



Project STORE4HUC - Paraffin base latent storages in connection with geothermal district heating system Lendava

6th twinning meeting

23th of June, 2021 - ONLINE
Štefan Žohar, LEA Pomurje



Zoom Meeting

Participants (20)

Paraffin based latent heat storage system in connection with the geothermal DHS in Lendava

Location: Oskar Laubhaimer's neo-baroque villa built in 1906
 Address: Glavna ulica 12, Lendava
 Heat source: Heating Oil
 Heat consumption: 60.159 kWh/a (5.675,07 €)
 Electric consumption: 39.986 kWh/a (4.628,71 €)
 Water consumption: 60 m³/a (328,32 €)
 Heated Area: 300 m²

Aim: to change fossil fuel with RES, reduction of consumption (4.000 kWh/a or 3%) and CO₂ emission (22 t/a) and the costs for heating; use of innovative solution

Participants: Judit Vinhoffer, Nina Taylor, E-zavod, Heves Gábor, Štefan Zohar RAS, WESTPANNON...

Zoom Meeting

Participants (21)

CHALLENGES of the pilot - HUC and historical monument

Based on the *Register of Slovene Cultural Heritage* (jurisdiction of Ministry of Culture) the Lendava Library is classified as Profane Building - connected to several protection regulations/law (national/municipal)

Participants: Judit Vinhoffer, Nina Taylor, E-zavod, Heves Gábor, Štefan Zohar RAS, WESTPANNON...

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Participants (21)

PILOT BACKGROUND DESCRIPTION

Table: Basic information of Lendava district heating system

District heating system (DH)	Yes operating
Flow temperature (in case of DH)	66°C
Total installed power (of heat power plant)	7 MW
Estimations of total installed power in individual systems	6.65 MW
Type of heat production	thermal water, gas boiler, heat pump
Energy source	Geothermal energy
Annually sold heat to households	18,000 GJ
Annually sold heat to industry	/
Share of heat loss in the DH	7 %
Total flat (heated) area surface	260,539 m ²
Flat (heated) area surface on DH	65,000 m ²
Flat (heated) area surface out of DH	195,539 m ²
Share of Flat (heated) area surface on DH (m ²)	25 %
Share of Flat (heated) area surface out of DH	75 %
Estimated specific heat load per square meter (in average)	3.333 W/m ²

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Participants (21)

CHALLENGES of the pilot - Low temperatures in GDHS

- LAST connection in the grid = low operating temperatures in the geothermal DHS (up to 55 °C inlet)
- the required indirect connection to the heating system, the flow temperature will be further reduced by 5 °C
- at outside temperature of 5 °C, the distributor provides 50 °C temperature. As the tolerance is ± 3 °C, a temperature of 47 °C can be expected
- purchase of a suitable storage material (water based storage or PCM material?)

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Participants (21)

CHALLENGES of the pilot - *Space constraints*

- small room dimensions / low ceiling height in the basement
- purchase of a suitable material (storages with suitable sizes)

Taskbar: Post Attendee - Zo..., 6th twinning meeti..., Dokumentum 1 - W..., Sent - judit.vinhoff..., Zoom Cloud Meeti..., Zoom Meeting, GreenLINE_6th twinn..., PowerPoint-veltes...

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Participants (21)

Construction work - pipelaying and connection of the building to the geothermal network

- purchase of 2x 65m of pre-insulated pipes (suitable for temperature up to 95°C, STANDARD or PLUS insulation, CALPLEX - DUO H, DN40+40, 50+50/182) and the connection of the public building to the existing geothermal district heating system

Taskbar: Post Attendee - Zoom..., 6th twinning meeting..., GreenLine priscn - Wo..., Bekerkezett azernetek..., Zoom Cloud Meetings, Zoom Meeting, GreenLINE_6th twinni...

Paraffin based latent storages in connection with geothermal district heating system

Aim: to change fossil fuel with RES, reduction of consumption (4.000 kWh/a or 3%) and CO₂ emission (22 t/a) and the costs for heating; use of innovative solution

Target groups: municipality/public (transferable to private sector)

Challenge: low temperatures in the geothermal DHS - purchase of a suitable material (PCM material, storages)

Transferability: unique in Slovenia - to areas with the geothermal potential, or combined with the biomass heating system

Sustainability: in accordance with the current LEC and SEAP, maintenance is ensured by the municipality - owner of the infrastructure

Progress: Investment is FINALISED; Monitoring process IN PROGRESS

Insulation, CALHEX - 800 H, 8040-40, 50-50/182) and the connection of the public building to the existing geothermal district heating system

Pilot monitoring

Krjiznica, Lendava
On-line monitoring ogrevanja na geotermalno energijo - toplodov s parafinskimi zalozgovniki

Interreg CENTRAL EUROPE STORE4HUC

Primerjava - Poraba(W·h)	Prilivnek - Poraba(W·h)	Prilivnek stroškov
<p>Prilivnek: 2021.01.01 - 2021.12.31.0000</p> <p>Poraba: 2021.01.01 - 2021.12.31.0000</p>	<p>Prilivnek: 2021.01.01 - 2021.12.31.0000</p> <p>Poraba: 2021.01.01 - 2021.12.31.0000</p>	<p>Prilivnek: 2021.01.01 - 2021.12.31.0000</p> <p>Poraba: 2021.01.01 - 2021.12.31.0000</p>



Poraba na površino starije [kWh/m²]
Prilivnek stroškov [€]

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Judit Vinhoffer Nina Taylor, E-zavod Heves Gábor Štefan Zohar RAS WESTPANNON ...

PILOT ACTION IN Austria (Weiz)

Central thermal energy storage tank in connection with decentralized hot water storage tanks

Aim: Reduction of fuel consumption (106 MWh or 110 t/a) & CO₂ emissions (32 t/a) - increased EE & RES
Target groups: users of the heating systems (Churh, private clients)
Challenge: monumental protection requirements (plant a new trees, to hide the storage)
Transferability: High number of cities with historical city centres with biomass DHS potential - this innovative integration has a high market potential and multiplicativity
Sustainability: fully integrated into the regional climate and energy strategies of the City of Weiz, the KEM Weiz-Gleisdorf and the Catholic Church of Styria;
 Already reached agreement with the corresponding consumers by extending the heat supply contract and the maintenance agreement. Extension of maintenance intervals → lower maintenance costs
Progress: Investment is FINALISED; Monitoring process IN PROGRESS
 Video: <https://www.youtube.com/watch?v=K5vwNwX10oU>

Interreg SLOVENIJA - MADZARSKA SZLOVÉNIA - MAGYARORSZÁG

Participants (21)

Q. Find a participant

JV	Judit Vinhoffer (Me)	🔇	🗑️
S	Štefan Zohar RAS (Host)	🔇	🗑️
BV	Bojan Vogrinčič, LEA P.	🔇	🗑️
DF	Darko Fercej (E-zavod)	🔇	🗑️
DJ	Drustvo Jasa - Slovenia	🔇	🗑️
HK	Helga Kovács	🔇	🗑️
HG	Heves Gábor	🔇	🗑️
IN	Inga Novak - Innova 3 - KS Zgornj...	🔇	🗑️
KE	Ksenija, E-ZAVOD	🔇	🗑️
MH	Monika Holc	🔇	🗑️
MR	Musits Róbert	🔇	🗑️
NT	Nina Taylor, E-zavod	🔇	🗑️
OT	Občina Turmšče	🔇	🗑️
OT	Občina Turmšče	🔇	🗑️

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Zoom Meeting

Judit Vinhoffer Nina Taylor, E-zavod Heves Gábor Štefan Zohar RAS WESTPANNON ...

PILOT ACTION IN Italy (Cuneo)

Sloping elevator - the realization of a new system for the production and storage of electrical power





Aim: Reduction of electricity consumption (6.000 kWh/a) & CO₂ emissions (2,9 t/year), cost reduction (1.180 EUR/year)
Target groups: citizens
Challenge: monumental protection requirements (environmental, hydro-geological, and archaeological feasibility and on urban compatibility)
Transferability: other HUC areas with large differences in altitude at short distances
Sustainability: project is fully integrated in the strategy of the city of Cuneo in favour of sustainability and protection of environmental resources; maintenance is ensured by the selected company
Progress: Investment planned for June 2021; Monitoring/Testing process from July - September 2021

Interreg SLOVENIJA - MADZARSKA SZLOVÉNIA - MAGYARORSZÁG

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Q. Find a participant

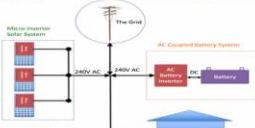
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PILOT ACTION IN Croatia (Bračak)
Central battery (bank) system, Installation of PV system and integration of it to advanced Energy management system

Aim: PV system will generate direct savings (6.090 kWh), reduce carbon footprint (1,99 t/a of CO2) and contribute to environmental protection; Electrical energy surplus

Target groups: Zagorje-Krapina county

Challenge: building permit, monumental protection requirements (PV on the canopy and on the roof) and material purchase.

Transferability: to all HUC cities with solar potential

Sustainability: in line with the County Development Strategy, County Energy Efficiency Action Plan, Annual Energy Efficiency Plan; Pilot infrastructure will be maintained by the administration of Region County

Progress: Investment is in it's FINAL stage; Monitoring/Testing process from May- September 2021

10:00 – 11:00	Discussion on the preparation of joint measures in the field of RES and RUE in the cross-border area (T1.2.1)
11:00 – 11:30	Closing of the twinning meeting: Questions & answers


**ENERGY-CONSCIOUS LIFESTYLE:
GOOD EXAMPLES FROM THE GREENREG PROJECT**

Green Line 6th Twinning Meeting
23 June, 2021
Gábor Heves – IMRO-DDKK Nonprofit Kft, Nagykanizsa, Hungary




Zoom Meeting

letenye Inga Novak - In... Občina Turnišče Varga Diána Ksenija, E-ZAVOD Valerija, E-ZAVOD

BRIEFLY ABOUT THE GREENREG PROJECT



- The aim is to increase the environmental competencies of the region's institutions
- Chambers, regional development institutions, public institutions, educational institutions
- 15 progressive employers: Network of "Green Ambassadors"

Participants (21)


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DJ	Društvo Jasa - Slovenia	🔇
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Ó	Óriszentpéter	🔇
Š	Štefan Žohar RAS	🔇
V	Valerija, E-ZAVOD	🔇

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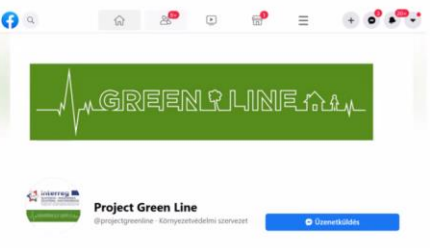



Zoom Meeting

WESTPANNON... Monika Holc

IT'S FOR YOU, TOO!



- Facebook: GreenReg project
- Green Cloud: <https://green-cloud.si>
- Thematic workshops, final event

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V	Valerija, E-ZAVOD	🔇

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WESTPANNON... Monika Holc

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- V Valerija, E-ZAVOD

GOOD EXAMPLES FOR ENERGY SAVING

Interreg SLOVENIJA - MADŽARSKA SZLOVÉNIA - MAGYARORSZÁG

- Most important: lifestyle
- Heating and cooling
- Electric appliances
- Sustainable mobility

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BEVONAMI CENTER MÉRLEGI SZABÓCSA

9:10

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WESTPANNON... Monika Holc

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- V Valerija, E-ZAVOD
- VB Varga Diána

ENERGY CONSCIOUSNESS IN MOBILITY – TOPIC OF A SEPARATE WORKSHOP

Interreg SLOVENIJA - MADŽARSKA SZLOVÉNIA - MAGYARORSZÁG

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9:13

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Stéfan Žohar RAS | Judit Vinhoffer | Nina Taylor, E... | Heves Gábor | WESTANNON... | Monika Holc

WATER USE, WARM WATER

- Dripping tap, 10-20 drops per minute: one full bathtub in a week
- Bathtub: 60l water
- Shower: 60l water
- Collect rainwater for irrigation
- Dishwashing, brushing your teeth: it can be more economical...

Participants (20)

Initials	Name	Role
JV	Judit Vinhoffer (Me)	Participant
HG	Heves Gábor (Host)	Host
BV	Bojan Vogrinčič, LEA P	Participant
DF	Darko Fercej (E-zavod)	Participant
DJ	Društvo Jasa - Slovenia	Participant
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Ó	Órisztpéter	Participant
Š	Stéfan Žohar RAS	Participant
V	Valerija, E-ZAVOD	Participant
VB	Varga Diána	Participant

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Stéfan Žohar... | Judit Vinhoffer | Nina Taylor, E... | Heves Gábor | WESTANNON... | Monika Holc

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Judit Vinhoffer Heves Gábor Nina Taylor, E...

Green Line - Twinning meeting (online)

Presentation of the RURES project

West Pannon Nonprofit Ltd.

Participants (20)

Find a participant

- DF Darko Fercej (E-zavod)
- DJ Drustvo Jasa - Slovenia
- HK Helga Kovács
- HG Heves Gábor
- IN Inga Novak - Innova 3 - KS Zgorn...
- MH Monika Holc
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- Ó Órízsejtpéter
- V Valerija, E-ZAVOD
- VD Varga Diána
- WÁ WESTPANNON_Bolyós Ádám
- H Hévíz
- L letenye

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WESTPANNON ... Zsolt Simon_We... Monika Holc

Judit Vinhoffer Heves Gábor Nina Taylor, E...

ACTIVITIES

Main activities:

- Organised Local Support Group meetings.
- Collected and presented good practices from partner countries. We prepared a Good Practice handbook
- Feasibility studies for investments.
- Preparing reports related to investments.
- Preparation of a value calculator related to energy efficiency and renewable energy systems. (Online handbook and trainings for value calculator

<https://www.youtube.com/watch?v=BEp0AftRW9o> (Slovenian version)

<https://www.youtube.com/watch?v=ouUjVoc0jwQ> (Hungarian version)

TAKING COOPERATION FORWARD 3

Participants (20)

Find a participant

- DJ Drustvo Jasa - Slovenia
- HK Helga Kovács
- HG Heves Gábor
- IN Inga Novak - Innova 3 - KS Zgorn...
- MH Monika Holc
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INVESTMENTS

Leisnig (Germany) - heat recovery ventilation system

Participants (20)

- DJ Društvo Jasa - Slovenia
- HK Helga Kovács
- HG Heves Gábor
- IN Inga Novak - Innova 3 - KS Zgorn...
- MH Monika Holc
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INVESTMENTS

Paleczinca (Poland) - intelligent (automatic) water metering

Participants (20)

- DJ Društvo Jasa - Slovenia
- HK Helga Kovács
- HG Heves Gábor
- IN Inga Novak - Innova 3 - KS Zgorn...
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Participants: Judit Vinhoffer, Heves Gábor, WESTPANNON_... Zsolt Simon_We..., Monika Holc, Nina Taylor, E...

INVESTMENTS

interreg CENTRAL EUROPE RURES

Puconci (Slovenia) - Solar „E-TREE”

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Participants (20)

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- DJ Društvo Jasa - Slovenia
- HK Helga Kovács
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INVESTMENTS

interreg CENTRAL EUROPE RURES

TAKING COOPERATION FORWARD 8

Participants (20)

Find a participant

- DJ Društvo Jasa - Slovenia
- HK Helga Kovács
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INVESTMENTS

interreg CENTRAL EUROPE RURES

Lentiszombathely (Hungary) - renewable energy-yard

TAKING COOPERATION FORWARD

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Zoom Meeting | You are viewing Zsolt Simon, Westpannon's screen | View Options

Participants: WESTPANNON_..., Zsolt Simon_We..., Monika Holc, Judit Vinhoffer, Heves Gábor, Nina Taylor, E...

INVESTMENTS

interreg CENTRAL EUROPE RURES

Čakovec (Croatia) - Energy efficient administrative building in Čakovec

TAKING COOPERATION FORWARD

Zoom Meeting controls: Unmute, Stop Video, Participants (20), Chat, Share Screen, Record, Reactions, Leave

Taskbar: Post Attendee - Zoom..., 6th twinning meeting, GreenLine priscn - Wo..., Beérkezett üzenetek, Zoom Cloud Meetings, Zoom Meeting, GreenLINE_6th twinni...

Participants (20)

Find a participant

- DJ Drustvo Jasa - Slovenia
- HK Helga Kovács
- HG Heves Gábor
- IN Inga Novak - Innova 3 - KS Zgorn...
- MH Monika Holc
- MR Musits Róbert
- NT Nina Taylor, E-zavod
- OT Občina Turmšče
- OT Občina Turmšče
- Ó Óriszentpéter
- Š Štefan Zohar RAS
- V Valerija, E-ZAVOD
- VD Varga Diána
- WÁ WESTPANNON_Bolyós Ádám
- H Hévíz
- L letenye

Invite Unmute Me Reclaim Host

Zoom Meeting

WESTPANNON ... Zsolt Simon We...

Participants (20)

Find a participant

- JV Judit Vinhoffer (Me)
- NT Nina Taylor, E-zavod (Host)
- BV Bojan Vogrinič, LEA P
- DF Darko Fercej (E-zavod)
- DJ Društvo Jasa - Slovenia
- HK Helga Kovács
- HG Heves Gábor
- IN Inga Novak - Innova 3 - KS Zgorn...
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- Ó Órisztpéter
- Š Štefan Žohar RAS
- V Valerija, E-ZAVOD
- VB Varga Diána

THE WHY / THE VISION

interreg CENTRAL EUROPE ENES-CE

- Establish cooperation between public authorities and citizens' energy cooperatives in implementing local energy strategies in Central Europe; support development of energy cooperatives
- With the ENES-CE project, we want to achieve greater public/community support for energy plans as well as improved quality of these documents, by involving all key stakeholders, especially citizens

CO₂

TAKING COOPERATION FORWARD 3

Diapozitív 3 od 15

Post Attendee - Z... Logo 6th twinning mee... Green Line prtsn... Beérkezett üzene... Zoom Cloud Mee... Zoom Meeting GreenLINE_6th tw... Fényképek 9:42

Zoom Meeting

WESTPANNON ... Zsolt Simon We...

Participants (20)

Find a participant

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- DF Darko Fercej (E-zavod)
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- V Valerija, E-ZAVOD
- VB Varga Diána

THE HOW / THE APPROACH

interreg CENTRAL EUROPE ENES-CE

- Bottom up quadruple helix approach
- Use of participatory tools for citizens involvement
- Co-creation of energy plans/strategies and support with creation of local energy cooperatives of energy groups
- Pilot experiments in 6 cities

TAKING COOPERATION FORWARD 4

Diapozitív 4 od 15

Post Attendee - Z... Logo 6th twinning mee... Green Line prtsn... Beérkezett üzene... Zoom Cloud Mee... Zoom Meeting GreenLINE_6th tw... Fényképek 9:45

Zoom Meeting

WESTPANNON ... Zsolt Simon We...

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- BV Bojan Vogrinčić, LEA P
- DF Darko Fercej (E-zavod)
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- HG Heves Gábor
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- V Valerija, E-ZAVOD
- VD Varga Diána

PowerPointová diaprojekcia - ENES_CE_preditavitev_Atl_green_line_twinning_june21.pptx - PowerP...

PILOTS

Budapest Főváros XIV. kerület Zugló Önkormányzata, Madžarska

Recent Citizens engagement event in the Zugló area - open-air workshop on pilot interventions in 3 thematic areas

TAKING COOPERATION FORWARD 5

Diaprozitiv 5 od 15

Zoom Meeting

You are viewing Nina Taylor, E-zavod's screen

WESTPANNON ... Zsolt Simon We...

Participants (20)

Find a participant

- JV Judit Vinhoffer (Me)
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- DF Darko Fercej (E-zavod)
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PowerPointová diaprojekcia - ENES_CE_preditavitev_Atl_green_line_twinning_june21.pptx - PowerP...

PILOTS

City Municipality of Koper

Co-creation of solar energy cooperative as a new socio-economic model of organizing, that will support the transition of the city towards carbon neutrality

Benefits:

- Access to private capital for energy projects
- Income remains in the local community
- More local energy from renewable
- Access to renewables for citizens

TAKING COOPERATION FORWARD 6

Zoom Meeting | You are viewing Nina Taylor, E-zavod's screen | View Options

Participants: Heves Gábor, WESTPANNON..., Zsolt Simon We...

Participants (20):
 JV Judit Vinhoffer (Me)
 NT Nina Taylor, E-zavod (Host)
 BV Bojan Vogrinčič, LEA P
 DF Darko Fercej (E-zavod)
 DJ Društvo Jasa - Slovenia
 HK Helga Kovács
 HG Heves Gábor
 IN Inga Novak - Innova 3 - KS Zgorn...
 MH Monika Holc
 MR Musits Róbert
 OT Občina Turmische
 OT Občina Turmische
 Ó Órisztpéter
 Š Štefan Žohar RAS
 V Valerija, E-ZAVOD
 VD Varga Diána

EXPECTED RESULTS

- > Developed and implemented innovative energy strategies
- > Citizens involved in the process of energy strategies and development planning
- > Improved management systems
- > A framework for the development of citizens' investments
- > Established energy groups / cooperatives capable of supporting planning, implementation and financing of sustainable energy projects

TAKING COOPERATION FORWARD 7

Zoom Meeting | You are viewing Nina Taylor, E-zavod's screen | View Options

Participants: Heves Gábor, WESTPANNON..., Zsolt Simon We...

Participants (20):
 JV Judit Vinhoffer (Me)
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 DF Darko Fercej (E-zavod)
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 OT Občina Turmische
 Ó Órisztpéter
 Š Štefan Žohar RAS
 V Valerija, E-ZAVOD
 VD Varga Diána

PROJECT PARTNERS

1. Comune di Forti, **Italiya** (vodilni partner)
2. Medimurska energetska agencija d.o.o., **Hrvaška**
3. Grad Prelog, **Hrvaška**
4. E-zavod, zavod za projektno svetovanje, raziskovanje in razvoj celovitih rešitev, **Slovenija**
5. Mestna občina Koper, **Slovenija**
6. Energiaklub Szakpolitikai Intézet és Módszertani Központ Egyesület, **Madžarska**
7. Budapest Főváros XIV. kerület Zuglói Önkormányzata, **Madžarska**
8. City Pfaffenhofen Stadtwerke, **Nemčija**
9. Bürger-Energie-Genossenschaft im Landkreis Pfaffenhofen a.d.Ilm e.G., **Nemčija**
10. Województwo Lubelskie, **Poljska**

TAKING COOPERATION FORWARD 8

Zoom Meeting

Heves Gábor WESTPANNON... Zsolt Simon We... Hévíz

Participants (19)

Find a participant

- DF Darko Fercej (E-zavod)
- DJ Društvo Jasa - Slovenia
- HK Helga Kovács
- HG Heves Gábor
- IN Inga Novak - Innova 3 - KS Zgorn...
- MH Monika Holc
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- OT Občina Turmšče
- OT Občina Turmšče
- Ó Órízsepteér
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- WÁ WESTPANNON_Bolyós Ádám
- ZS Zsolt Simon_Westpannon
- H Hévíz
- L letenye

Diaposzitiv 9 od 15

KONTAKT

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TAKING COOPERATION FORWARD

Windows taskbar: RUJ - Google-ker... Logo 6th twinning mee... Green line prtscn... Beérkezett üzene... Zoom Cloud Mee... Zoom Meeting GreenLINE_6th tw... Fényképek 9:52