Regional Hub: Germany

W4RES WOMEN FOR MARKET UPTAKE OF RENEWABLE HEATING AND COOLING

Projects:	Technical support services:	Business support services:
22	13	9

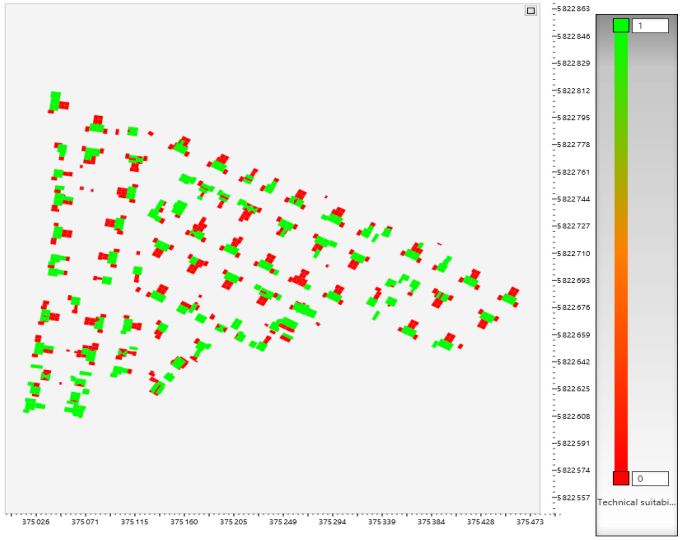
Project: Berliner Siedlungsbund (DE)

Supported by: HFT

Support measure: Technical Support

DESCRIPTION OF PROJECT

The **Berliner Siedlungsbund** project can be considered a case study of 4 settlements in Berlin (between 100 and 500 buildings each) that are looking to transition to clean and affordable heating. Most buildings in the settlements were built in the 1930s, are not refurbished, and have an oil or inefficient electricity heating system. Most inhabitants in the settlements are low to middle income families. The most favorable future scenarios, therefore, are those which value both energy savings and cost reduction.



DESCRIPTION OF SERVICE

HFT is supporting this project by simulating heat demand, refurbishment scenarios, heat generation options, and an economic assessment. The insights from this simulation are shared with Berliner Siedlungsbund.

FOR MORE INFORMATION

Project: Berliner Siedlungsbund

Regional Hub: German Hub

Support Provider Contact: Sarina Hötzel, Sally Köhler - HFT - sarina.hoetzel@hft-stuttgart.de, sally.koehler@hft-stuttgart.de

Project: GIH: National network for energy consultants in Germany (DE)

Supported by: WECF

Support measure: Business Support

DESCRIPTION OF PROJECT

The **GIH** is a network connecting several energy consultants throughout Germany. Furthermore, it informs the public about ongoing energy consultancy projects and energy efficiency. Within internal structures of the GIH, the presence, the exchange and collaboration between female energy consultants shall be strengthened on a long-term basis, e.g., by providing specific technical trainings for the installation of heat pumps.

DESCRIPTION OF SERVICE

On the 23rd of March 2022, GIH and WECF organised a networking meeting for female members of GIH to catalyze such an exchange. During the event participants have shared experiences and best practices and WECF had the chance to present W4RES as well as concrete measures and gender tools to improve gender equality in the network and in the sector.

During the meeting, WECF was assessing barriers the participating women are facing, as well as their needs in regard of their own working environment. Also, a discussion was raised about what must be changed on societal and political level to make the energy sector more gender-just.

The outputs of the meeting have been published in article that have been published on the GIH newsletter and that will be presented during the GIH general assembly in May 2022.

Barbara Wittmann-Ginzel – GIH
ginzel@gih.de

FOR MORE INFORMATION

Project: GIH Frauennetzwerk

Regional Hub: German Hub

Support Provider Contact: Marilys Louvet – WECF - marilys.louvet@wecf.org

Project: Clarenzy (DK)

Supported by: HFT

Support measure: Technical Support

DESCRIPTION OF PROJECT

The **Clarenzy** platform promotes sustainable brands for clothing and other articles.

DESCRIPTION OF SERVICE

HFT offers the preparation of a carbon footprint analysis for 2-3 brands that are represented on the Clarenzy platform. Additionally, HFT has provided support regarding the sustainability labels that could help to raise the credibility of the platform.

FOR MORE INFORMATION

Project: Clarenzy

Regional Hub: Danish Hub

Support Provider Contact: Sarina Hötzel, Sally Köhler - HFT - sarina.hoetzel@hft-stuttgart.de, sally.koehler@hft-stuttgart.de

Project: High5Girls (DK)

Supported by: Steinbeis 2i GmbH

Support measure: Business Support

DESCRIPTION OF PROJECT

With the goal of exciting and empowering girls with knowledge and confidence in STEM and entrepreneurship so that they can become future problem solvers and leaders, **High5Girls** is a platform that offers hands-on hackathons and workshops for young women between the ages of 13-19. The hope is that this work will increase the participation of women in STEM education and careers.

High5Girls allows girls to meet women working in a variety of STEM careers. They share their insights about what they do as scientists and engineers. Their goal is to show parents and girls the wide range of exciting and rewarding careers women hold in STEM.

DESCRIPTION OF SERVICE

S2i is providing High5Girls with their 'innovation funding opportunities' service. After a first discussion to assess needs, S2i presented High5Girls with a number of different EU funding programs for which it is eligible. These programs were presented with regard to scope, eligibility criteria, and the application process. S2i is also identifying organizations in its networks that High5Girls could be linked to, and will make contact, after the project representatives fill out a partner profile (also developed by S2i). At the end of June, a 2-day HEU proposal writing training will be offered as well.

FOR MORE INFORMATION

Project: High5Girls

Regional Hub: Danish Hub

Support Provider Contact: Despoina Ntagiakou – S2i - despoina.ntagiakou@steinbeis-europa.de

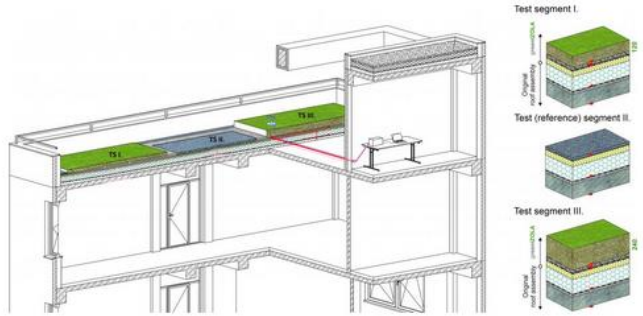
Project: GreenIzola (SK)

Supported by: HFT

Support measure: Technical Support

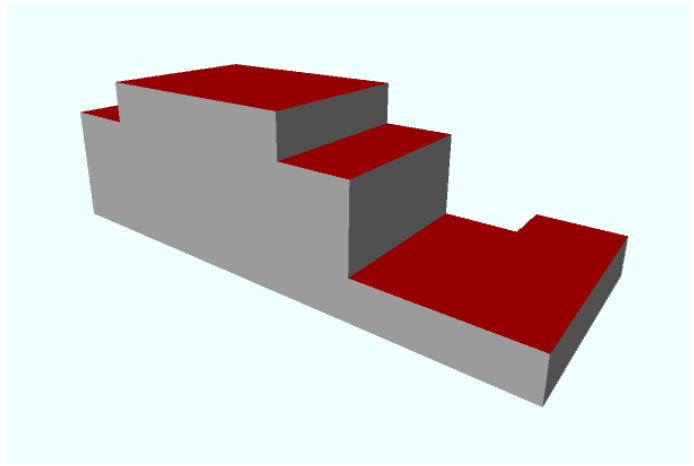
DESCRIPTION OF PROJECT

The **GreenIzola** project deals with the effects of green roofs on indoor comfort, microclimate, etc.



DESCRIPTION OF SERVICE

HFT offers to scale up the application of the results with the use of the simulation software SimStadt. For this simulation a 3D building model is created. Additionally, HFT plans to write a paper or research proposal together with the GreenIzola project, which would help the project and the Technical University of Kosice in increasing international visibility.



FOR MORE INFORMATION

Project: GreenIzola

Regional Hub: Slovak Hub

Support Provider Contact: Sarina Hötzel, Sally Köhler - HFT - sarina.hoetzel@hft-stuttgart.de, sally.koehler@hft-stuttgart.de

Project: 4th Gen DK (SK)

Supported by: HFT

Support measure: Technical Support

DESCRIPTION OF PROJECT

The **4th Gen DK** project is working on implementing a carbon-neutral district heating network in Prievidza by 2030.

DESCRIPTION OF SERVICE

HFT offers to support the project by providing a roadmap for implementation of the carbon-neutral district heating network through a knowledge transfer and experience exchange. Much of this is based on best-practice examples from Baden-Württemberg and a cooperation with the Danish energy agency from past projects. Additionally, HFT will discuss the structures that exist in Germany/Baden-Württemberg and how they could be transferred to the Upper Nitra región in Slovakia.

FOR MORE INFORMATION

Project: 4th Gen DK

Regional Hub: Slovak Hub

Support Provider Contact: Sarina Hötzel, Sally Köhler - HFT - sarina.hoetzel@hft-stuttgart.de, sally.koehler@hft-stuttgart.de

Project: Development of mortars (IT)

Supported by: Steinbeis 2i GmbH

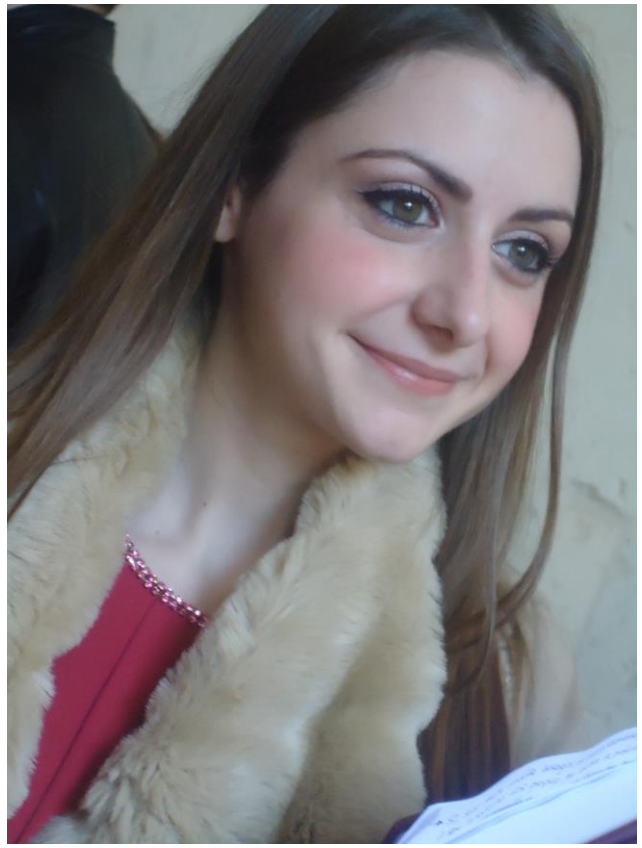
Support measure: Business Support

DESCRIPTION OF PROJECT

Development of mortars is a research project carried out at the University of Salento (IT). The project aims to develop mortars that are based on different binders which contain an original sustainable Phase Change Material (PCM) and are able to improve the energy efficiency of buildings. In identifying different binder compositions, the project is developing mortars with the PCM that can eventually be used in a wide range of applications, from modern buildings to antique constructions. The project also includes evaluations of the mortars' thermal properties.

DESCRIPTION OF SERVICE

S2i is providing Development of mortars with their 'innovation funding opportunities' service. After a first discussion to assess needs, S2i presented Development of mortars with a number of different EU funding programs for which it is eligible. These programs were presented with regard to scope, eligibility criteria, and the application process. S2i is also identifying organizations in its networks that Development of mortars could be linked to, and will make contact, after the project representatives fill out a partner profile (also developed by S2i). At the end of June, a 2-day HEU proposal writing training will be offered as well.



Dr. Antonella Sarcinella

FOR MORE INFORMATION

Regional Hub: Italian Hub

Support Provider Contact: Despoina Ntagiakou – S2i - despoina.ntagiakou@steinbeis-europa.de

Project: Levante (IT)

Supported by: HFT

Support measure: Technical Support

DESCRIPTION OF PROJECT

Levante is a start-up which manufactures sustainable PV panels made partly from recycled materials. These PV panels are made mainly for remote and insular application on and in camper vans, boats and remote places with no grid access. One of their goals is to reduce the environmental impact of the panels.

DESCRIPTION OF SERVICE

HFT is supporting this project by performing a simplified Life Cycle Assessment (LCA) for the PV panels, assessing the production and assembly related energy demand and emissions, and comparing the use of these PV panels with traditional energy sources such as diesel and oil which the panels replace.

FOR MORE INFORMATION

Project: Levante

Regional Hub: Italian Hub

Support Provider Contact: Sarina Hötzel, Sally Köhler - HFT - sarina.hoetzel@hft-stuttgart.de, sally.koehler@hft-stuttgart.de

Project: NOCOTÚ (IT)

Supported by: Steinbeis 2i GmbH (S2i)

Support measure: Business Support

DESCRIPTION OF PROJECT

NOCOTÙ: a new way of living, for the future of our planet

NOCOTÙ is a housing solution that, through the reuse and reconditioning of used shipping containers, promotes sustainable construction with less impact on the environment and household costs.

NOCOTÙ has developed an IoT technology that aims at addressing not only the environmental impact of current space heating and cooling systems, but also the economic impact these systems have on households.

DESCRIPTION OF SERVICE

S2i is providing NOCOTÚ with their 'innovation funding opportunities' service. After a first discussion to assess needs, S2i presented NOCOTÚ with a number of different EU funding programs & call topics for which the project is eligible. These programs and call topics were presented with regard to scope, eligibility criteria, and the application process. S2i is also identifying organizations in its networks that NOCOTÚ could be linked to, and will make contact, after the project representatives fill out a partner profile (also developed by S2i). A 2-day HEU proposal writing training will be offered at the end of June.

FOR MORE INFORMATION

Project: NOCOTÙ

Regional Hub: Italian Hub

Support Provider Contact: Despoina Ntagiakou – S2i - despoina.ntagiakou@steinbeis-europa.de

Project: Green Hydrogen Wiesbaden, ESWE Versorgung

Supported by: S2i

Support measure: Business Support

DESCRIPTION OF PROJECT

Decarbonisation is a goal of the federal government in Germany. Beside electricity, other forms of energy will be needed to cover peak loads and regulate the volatile electricity market. Hydrogen will be one of the possibilities to deal with this issue.

For this Green Hydrogen Wiesbaden wants to discover opportunities to use hydrogen in the future the first plan was to install an electrolyser which is run by green electricity to produce green hydrogen and feed the hydrogen in the local gas network. XX

DESCRIPTION OF SERVICE

Through W4RES, Green Hydrogen Wiesbaden received business support. Steinbeis 2i GmbH showcased ESWE Wiesbaden their hydrogen projects, possibilities to receive funding in different funding projects and different fields of thematics around hydrogen. Also possible contact, the clean hydrogen partnership were displayed. ESWE Wiesbaden will get support to find relevant Calls under Horizon Europe. S2i will help in setting up partner profile for the Funding & Tenders Portal but also to circulate it through their network to find relevant partners for a demo case.

FOR MORE INFORMATION

Project: Green Hydrogen Wiesbaden, ESWE Versorgung

Regional Hub: German Hub

Support Provider Contact: S2i Elke Weidenfelder, elke.weidenfelder@steinbeis-europa.de

Katrin Hochberg katrin.hochberg@steinbeis-europa.de

Project: Orosi.AI

Supported by: S2i

Support measure: Business Support

DESCRIPTION OF PROJECT

Orosi.Ai generates collision-free, completely norm-conform, and energy-efficient MEP design suggestions. Instead of months, our plans take only minutes.

That is a massive 70% time saving - a remedy for an industry plagued by skill shortage. Not only does that give planners a significant portion of their time back for other projects. Orosi.AI also enable the customers to optimize for environmental impact on a scale unachievable by human planners.

DESCRIPTION OF SERVICE

Through W4RES, Orosi.AI will get funding support to find relevant Calls under Horizon Europe Pillar II and the EIC Accelerator. Also, there is the possibility to get support in writing the application.

FOR MORE INFORMATION

Project: Orosi.AI

Regional Hub: German Hub

Support Provider Contact: S2i Elke Weidenfelder, elke.weidenfelder@steinbeis-europa.de

Katrin Hochberg katrin.hochberg@steinbeis-europa.de

Project: 4ClimateFuture (DE)

Supported by: S2i

Support measure: Business Support

DESCRIPTION OF PROJECT

4ClimateFuture wants to create an opportunity with a technical pilot (direct-Air-Capture with CCS) onshore Germany. The method (direct-air-capture) is proven. However, there is no application in Germany so far. The production of CO2-intensive materials such as cement and steel, on the other hand, is essential for a climate-friendly energy supply through wind turbines and geothermal energy. Moreover, removing CO2 from the atmosphere is another fundamental step in the fight against climate change.

DESCRIPTION OF SERVICE

Through W4RES, 4ClimateFuture will be getting funding support to find relevant Calls under Horizon Europe and at the national level.

FOR MORE INFORMATION

Project: 4ClimateFuture

Regional Hub: German Hub

Support Provider Contact: S2i Elke Weidenfelder, elke.weidenfelder@steinbeis-europa.de

Katrin Hochberg katrin.hochberg@steinbeis-europa.de

Project: H2MC (DE)

Supported by: S2i

Support measure: Business Support

DESCRIPTION OF PROJECT

The use of hydrogen as a fuel produces only water vapor and heat as emissions. The H2mc Heating UG heating unit and process are the subject of a German patent (DE 10 2022 116 119 B3).An elementary added value of the heating unit and process developed by H2mc Heating UG is the simple and cost-efficient integration. Here, the H2mc heating unit is connected to the already existing heating systems. This is an attractive option especially for the renovation of old buildings with poor energy efficiency classes, as the heating unit can be installed without major conversion work. The system can also be used in new buildings to install climate-friendly heating.

DESCRIPTION OF SERVICE

Through W4RES, H2MC will be getting funding support to find relevant funding calls. H2MC will also receive support for the application preparation for the national fund from “Deutsche Bundesstiftung Umwelt”.

FOR MORE INFORMATION

Project: H2MC

Regional Hub: German Hub

Support Provider Contact: S2i Elke Weidenfelder, elke.weidenfelder@steinbeis-europa.de

Katrin Hochberg katrin.hochberg@steinbeis-europa.de

Project: Speed-up energy-transition Korbach (SET-KORBACH) (DE)

Supported by: HFT Stuttgart

Support measure: Technical Support

W4RES WOMEN FOR MARKET UPTAKE OF RENEWABLE HEATING AND COOLING

DESCRIPTION OF PROJECT

Small and medium-sized cities and municipalities face the challenges of having to provide all municipal services with a limited staff of diverse competences. Municipal heat planning provides the guiding principles for urban development and sustainable transformation of infrastructures for the energy transition in cities in rural areas. Based on the diversity of problems, roles and focal points for action are defined and projects prioritized. The political anchoring and the involvement of the local population are the basis for the implementation in practice. SPEED-UP ENERGY-TRANSITION KORBACH serves this process by providing a sound data basis and potential analysis to base future concepts and strategies upon.

DESCRIPTION OF SERVICE

Through W4RES, SPEED-UP ENERGY-TRANSITION will get support to develop an action plan for the heating & cooling transition.

FOR MORE INFORMATION

Project: 4SPEED-UP ENERGY-TRANSITION (SET-KORBACH)

Regional Hub: German Hub

Support Provider Contact: HFT Sarina Hötzel sarina.hoetzel@hft-stuttgart.de

Sally Köhler sally.koehler@hft-stuttgart.de

Project: Exploration of the energetic potential of the buildings in Oestrich-Winkel (DE)

Supported by: HFT Stuttgart

Support measure: Technical Support

W4RES WOMEN FOR MARKET UPTAKE OF RENEWABLE HEATING AND COOLING

DESCRIPTION OF PROJECT

Oestrich-Winkel is a small town in Germany with about 12,000 inhabitants in a rather rural area characterised by wine growing.

As a small municipality, Oestrich-Winkel has limited financial and human resources to initiate new projects and try out new technical possibilities. With the help of the EU-project W4RES, we hope for the necessary support to take another step towards a climate-neutral future.

DESCRIPTION OF SERVICE

Through W4RES, the city of Oestrich-Winkel is getting technical support to find the photovoltaic potential as well as the heat demands for all buildings in town through simulations.

FOR MORE INFORMATION

Project: Exploration of the energetic potential of the buildings in Oestrich-winkel

Regional Hub: German Hub

Support Provider Contact: HFT Sarina Hötzel sarina.hoetzel@hft-stuttgart.de

Sally Köhler sally.koehler@hft-stuttgart.de

Project: Simulation of renewable energy potentials and promotion of renewable energies in electricity and heat supply in private households and municipal properties in Oststeinbek (DE)

Supported by: HFT Stuttgart

Support measure: Technical Support

W4RES WOMEN FOR MARKET UPTAKE OF RENEWABLE HEATING AND COOLING

DESCRIPTION OF PROJECT

With the help of the simulation platform SimStadt, the HFT research team analysed the PV potential for the municipality Oststeinbek.

The calculations are based on 3D building models which consider the geometry and the location of each building. The 3D data is also enriched with various databases. In the future, the climate protection manager will be able to use this database for the PV potential analysis of the municipal properties.

Klimafit Oststeinbek

DESCRIPTION OF SERVICE

Through W4RES, the city of Oststeinbek is getting technical support to find the photovoltaic potential for each address and roof area for all buildings.

FOR MORE INFORMATION

Project: Simulation of renewable energy potentials and promotion of renewable energies in electricity and heat supply in private households and municipal properties in Oststeinbek (DE)

Regional Hub: German Hub

Support Provider Contact: HFT Sarina Hötzel sarina.hoetzel@hft-stuttgart.de

Sally Köhler sally.koehler@hft-stuttgart.de

Project: Networking and cooperation of settlements by improving and linking buildings as well as introducing intelligent supply mains and renewable energies (DE)

Supported by: HFT Stuttgart

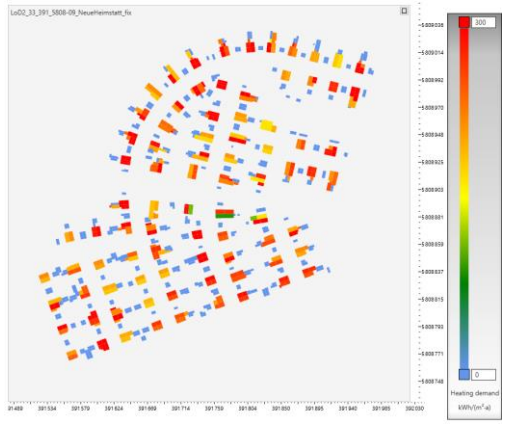
Support measure: Technical Support

W4RES WOMEN FOR MARKET UPTAKE OF RENEWABLE HEATING AND COOLING

DESCRIPTION OF PROJECT

The Association Verband Wohneigentum Brandenburg-Berlin e. V. would like to support its members with a comprehensive potential analysis for their residential buildings. The energetic analyses of four settlements will be carried out using 3D building data models and a simulation platform from HFT.

The settlements will receive a comprehensive energy analysis of all residential buildings in order to inform and activate the homeowners to contribute to a climate-neutral building stock.



DESCRIPTION OF SERVICE

Through W4RES, the settlements receive energy analyses on individual refurbishment options of their choice, as well as on the PV potential of each building.

VERBAND **WOHNEIGENTUM**
BERLIN-BRANDENBURG E.V.

FOR MORE INFORMATION

Project: Networking and cooperation of settlements by improving and linking buildings as well as introducing intelligent supply mains and renewable energies (DE)

Regional Hub: German Hub

Support Provider Contact: HFT Sarina Hötzel sarina.hoetzel@hft-stuttgart.de
Sally Köhler sally.koehler@hft-stuttgart.de

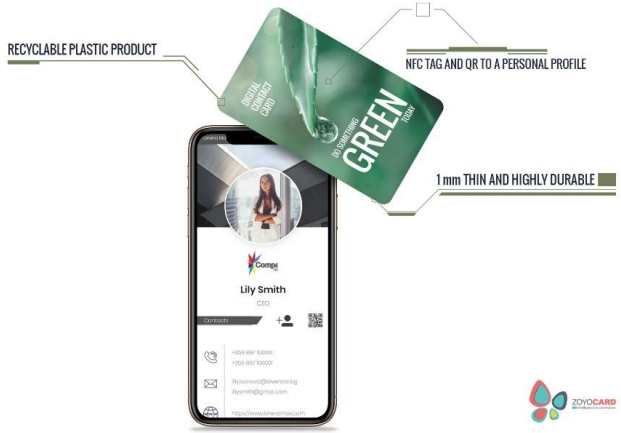
Project: Zoyo Card (BG)

Supported by: S2i

Support measure: Business Support

DESCRIPTION OF PROJECT

ZoYo Card provides a unique, and innovative solution for improving the traditional process of networking and sharing contact information. Zoyo Card offers digital business cards, which are an environmentally friendly alternative to the paper business cards. A key feature of the business card is the use of NFC technology and QR codes, which make networking easier than ever, since the clients can quickly share their information with anyone, they meet by just holding the card to their phone.



DESCRIPTION OF SERVICE

Through W4RES, Zoyo Card got an introduction to Enterprise Europe Network in the Bulgarian context, S2i showed them the opportunities to use the network. Also Zoyo Card received the individual contacts in Sofia for her need on internationalisation.

FOR MORE INFORMATION

Project: Orosi.AI

Regional Hub: Bulgarian Hub

Support Provider Contact: S2i Elke Weidenfelder, elke.weidenfelder@steinbeis-europa.de
Katrin Hochberg katrin.hochberg@steinbeis-europa.de

Project: Planning and capacity building for a successful heat supply transformation (SK)

Supported by: HFT

Support measure: Technical Support

DESCRIPTION OF PROJECT

Friends of the Earth-CEPA, being a pioneer in working with Slovak municipalities, is trying to demonstrate the benefits of converting existing heating systems to innovative, renewable and sustainable solutions. The long-term goal of this project is to support a pilot low-temperature district heating system in the Upper Nitra region, using the feasibility studies to underline the concrete potentials in a municipality.

DESCRIPTION OF SERVICE

W4RES/HFT supports the project with technical feedback on the feasibility study. In addition, W4RES consult them on the municipal heat planning process in Germany, with planning documents and with collecting information on the numerous actors involved. The project will be also connected to German experts in this field to stimulate a mutual learning process.

FOR MORE INFORMATION

Project: Planning and capacity building for a successful heat supply transformation

Regional Hub: Slovak Hub

Support Provider Contact: Sally Koehler – HFT Stuttgart - Sally Koehler - sally.koehler@hft-stuttgart.de

Sarina Hoetzel – HFT Stuttgart - sarina.hoetzel@hft-stuttgart.de

Project: Levante – Power your freedom (IT)

Supported by: HFT Stuttgart

Support measure: Technical Support

DESCRIPTION OF PROJECT

Levante is a Greentech startup that has designed and patented an origami-inspired foldable solar panel that you can take with you anywhere to generate clean energy.

The aim of the Levante PV modules is to have a mobile and sustainable power generator that can be taken on trips, used in various applications, but also installed at home e.g. on the balcony. Due to the wide range of applications, the CO_2 savings from the use of the product can be maximized and the CO_2 footprint of the user can be minimized.

DESCRIPTION OF SERVICE

Based on the results of the first project round, HFT will determine the CO_2 footprint of the final product. In addition, a tool will be developed to estimate the CO_2 savings when using the Levante PV panels in different applications.

FOR MORE INFORMATION

Project: Levante – Power your freedom

Regional Hub: German Hub

Support Provider Contact: HFT Sarina Hötzel sarina.hoetzel@hft-stuttgart.de

Sally Köhler sally.koehler@hft-stuttgart.de

Project: RESUB – RES for urban buildings – An innovative cloud based platform that enables multi-scale RES integration analysis towards cities' decarbonisation (GR)

Supported by: HFT Stuttgart

Support measure: Technical Support

DESCRIPTION OF PROJECT

The RESUB platform, is an innovative cloud-based platform that enables private and public investors and energy communities to measure their CO_2 carbon footprint and choose the most suitable RES technology. Due to its innovative methodology, it enables RES integration on urban buildings, both on a single-building unit scale, as well as on a large-scale. The aim of this project is to create a cloud-based, user-friendly platform that will accelerate the introduction of RES in the urban built environment, enabling cities' struggle towards energy independency.

DESCRIPTION OF SERVICE

HFT has many years of experience in the development of tools and platforms for building energy systems, including renewable energies. This expertise is utilized and shared throughout the duration of the service.

FOR MORE INFORMATION

Project: RESUB – RES for urban buildings – An innovative cloud based platform that enables multi-scale RES integration analysis towards cities' decarbonisation

Regional Hub: German Hub

Support Provider Contact: HFT Sarina Hötzel sarina.hoetzel@hft-stuttgart.de

Sally Köhler sally.koehler@hft-stuttgart.de

Project: BUILDING PHOTOVOLTAIC PARK ON THE ROOF OF THE NATIONAL TRADE AND BANKING HIGH SCHOOL - SOFIA BULGARIA (BU)

Supported by: HFT Stuttgart

Support measure: Technical Support

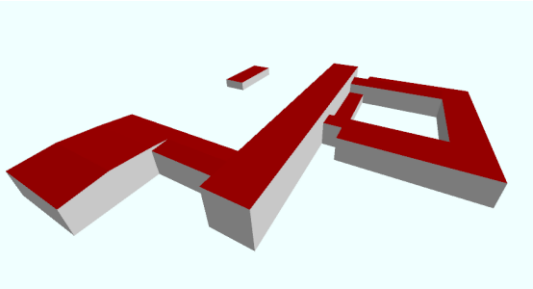
W4RES WOMEN FOR MARKET UPTAKE OF RENEWABLE HEATING AND COOLING

DESCRIPTION OF PROJECT

Lora Kirilovaa is a very motivated student at the National Trade and Banking School in Sofia, Bulgaria and is committed to climate protection and sustainable energy. She is convinced that her school has great PV potential on its roofs and therefore applied to the W4RES consortium to gain expertise and knowledge about energy building simulations, especially PV potentials. Together with the W4RES experts, she hopes to produce a report on the specific PV potential for her school, taking into account both the technical and economic feasibility of PV installations. Her goal is for her school to actively participate in the energy transition and climate protection, thus serving as a good example for other follow-up projects.

DESCRIPTION OF SERVICE

HFT created a 3D building model of Loras High School. Based on this, HFT used its simulation platform to simulate technical and economic PV potentials. Through all the steps, Lora gained insights into all workflows and a virtual tour of the simulation platform. Lora and HFT will also write a report for their school, which will be presented after the service is completed.



3D Model of the National Trade and Banking High School in Sofia

FOR MORE INFORMATION

Project: BUILDING PHOTOVOLTAIC PARK ON THE ROOF OF THE NATIONAL TRADE AND BANKING HIGH SCHOOL - SOFIA BULGARIA

Regional Hub: German Hub

Support Provider Contact: HFT Sarina Hötzel sarina.hoetzel@hft-stuttgart.de

Sally Köhler sally.koehler@hft-stuttgart.de