



WP6

Stakeholder Networking, Community Building, Dissemination and Promotional Activities

D6.2

SINERGY Web Portal

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CO	Confidential, only for members of the consortium including the Commission	



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Executive Summary

This document presents the status of development of the **SINERGY Website** at six months after the start of the project and serves as a quick reference guide to functionalities currently available at the following link <https://project-sinergy.org>. Currently, the web site has been divided into two main Sections:

- Public part that serves to disseminate information about the project activities;
- Private part of the platform for the members of the consortium.

The Main menu leads the visitors to the following sections:

- HOME, <https://project-sinergy.org/>
- Project, <https://project-sinergy.org/Objectives>
- Pilots, <https://project-sinergy.org/Pilots>
- eLearning, <https://project-sinergy.org/eLearning>
- Events, <https://project-sinergy.org/Events>
- Expected Results, <https://project-sinergy.org/Results>
- JoinUs (<https://twitter.com/H2020Sinergy>,
<https://www.linkedin.com/company/project-sinergy-org/>)



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Abbreviations and Acronyms

CMS Content Management System

WP Work Package



1. Introduction

This document is a description of the SINERGY website which is developed and will be maintained as part of Work package 6 (WP6) ‘Stakeholder Networking, Community Building, Dissemination and Promotional Activities’.

1.1. Scope

WP6 “Stakeholder Networking, Community Building, Dissemination and Promotional Activities” is divided into six tasks as follows

- Task 6.1 Dissemination & Communication plan and Web portal development (M1-M6), Partners involved: IMP
- Task 6.2 Participation in local and international conferences and workshops (M7-M36), Partners involved: AIT (leader), NUIG, IMP
- Task 6.3 Publication of research papers in leading journals, magazines and books (M7-M36), Partners involved: NUIG (leader), AIT, IMP
- Task 6.4 Networking with regional stakeholders and universities (M10-M36), Partners involved: IMP (leader), AIT, NUIG
- Task 6.5 Organizing thematic meetings with industrial partners and SMEs (M10-M36), Partners involved: IMP (leader), AIT, NUIG
- Task 6.6 Promoting the project activities via press and electronic media (M7-M36), Partners involved: IMP (leader), AIT, NUIG

At the time of writing this deliverable, it is six months after the start of the SINERGY project. Hence, the aim of this document is to provide the status of development of the **SINERGY Website** at six months after the start of the project and to serve as a quick reference guide for functionalities currently available at the following link <https://project-sinergy.org>. Currently, the web site has been divided into two main Sections:

- Public part that serves to disseminate information about the project activities;
- Private part of the platform for the members of the consortium.

1.2. Structure of the Deliverable

This Deliverable is structured as follows. Section 2 will introduce the main menu and submenus visible on the private site of the portal. Section 3 documents the customization of the Drupal content management system with regards for the needs of the SINERGY project.

Table 1 gives the names of responsible people of administering and updating contents on the SINERGY website



Table 1. Main contacts

Partner	Organization
IMP	Valentina Janev (updating the website), responsible for interactions with other projects
	Dejan Paunović, Marko Jelić (maintaining the system and updates for Drupal CMS)
	Nikola Tomašević and Marko Batić responsible for the Pilots submenu
	Marko Jelić responsible for the visual appearance of the contents
AIT	Johannes Stöckl responsible for the Pilots submenu
	Thomas Strasser responsible for interactions with other AIT projects (e.g. EriGrid 2.0)
NUIG	Luis M. Blanes responsible for the Pilots submenu



2. Introducing the SINERGY Public Website

2.1. HOME

The HOME Submenu, see <https://project-sinergy.org/> or Figure 1, leads to:

- SINERGY Website Privacy Policy, <https://project-sinergy.org/Privacy-policy>
- SINERGY Website Terms of Use, <https://project-sinergy.org/Terms-of-Use>

The screenshot shows the SINERGY website interface. At the top left is the SINERGY logo with the tagline "Capacity building in Smart and Innovative eNERGY management". To the right is a search bar. Below the logo is a navigation menu with items: Home, Project, Pilots, eLearning, Events, Expected Results, and JoinUs. A dropdown menu is open under "Home", showing "Privacy Policy" (highlighted in orange) and "Terms of Use". Below the navigation menu, the "Terms of Use" page content is visible, starting with: "with our Terms Of Use and any other documents referred to on it) sets out the basis on which any personal data we collect from you, or that you provide to us, will be processed by us. Please read the following carefully to understand our views and practices regarding your personal data and how we will treat it."

Information We May Collect From You

We may collect and process **Information/Contents you give us** or you upload to the platform. You may give us information about you by filling in forms on our site. This includes information you provide when you register to use our site, subscribe to our service, or participate in the Ideas & Discussions section on the private part of the portal. The information you give us may include your name, e-mail address, images of the material to be promoted via the SINERGY Network. Your personal data and all contents uploaded by you will be stored in the SINERGY database maintained by the Institute Mihajlo Pupin.

Uses Made of The Information

We use information held about you in the following ways:

- to carry out our obligations arising from the SINERGY project;
- to provide you with information about the SINERGY project;
- to allow you to participate in interactive features of our service when you choose to do so; to provide you, or permit other registered users to receive information as a result of subscription to the SINERGY content and/or match-making functionalities of the SINERGY platform.

Your Rights

At any time, you have the right to request from the administrator: access to your personal data, change, deletion, or restriction of data processing and data transfer rights, or to file an objection to data processing. You also have the right to withdraw your consent and the right to receive a copy of your personal data that are being processed. You can accomplish all of these rights by sending a request to the data administrator via email address: dejan.paunovic@pupin.rs.

You have the right to ask us not to process your personal data for marketing purposes. We will usually inform you (before collecting your data) if we intend to use your data for such purposes. You have the possibility to manage your user profile and delete your profile at any time.

Our site may, from time to time, contain links to and from the websites of our partner networks, advertisers, and affiliates. If you follow a link to any of these websites, please note that these websites have their own privacy policies and that we do not accept any responsibility or liability for these policies. Please check these policies before you submit any personal data to these websites.

Figure 1. SINERGY Privacy Policy - website



2.2. Project

The Project Submenu leads to:

- Objectives, <https://project-sinergy.org/Objectives>
- Partner descriptions, <https://project-sinergy.org/Partners>
- Stakeholders description, <https://project-sinergy.org/Stakeholders> (see Figure 2)
- Related projects, <https://project-sinergy.org/Related-Projects>



Figure 2. SINERGY Stakeholders - website

2.3. Pilot

The focus of SINERGY is experience and knowledge exchange in the field of smart energy management among the partners, especially towards the reinforcement of IMP's capabilities. Therefore, a suitable platform for excellence and innovation capacity-building is envisaged that will allow for a faster take-up and transfer of domain knowledge and technologies.

The platform also contains the corresponding depictions of two pilot settings, allowing for a practical demonstration of the state-of-the-art concepts and methodologies in the smart energy management domain:



- **Pilot 1 - Smart Grid Technologies** aims to demonstrate grid-level techniques and technologies (such as relevant smart grid concepts and integration of distributed smart grid elements), see [AIT facilities \(EnergyBase, TechBase\)](#),
- **Pilot 2 - Energy Efficient Building Operation** is aimed at demonstrating building level optimization approaches such as building modeling and improving building operation efficiency, thus ensuring exchange of complementary know-how and expertise which covers both energy supply and energy consumption side, see [NUIG Alice Perry Engineering Building](#).

Pilot settings are made available by AIT and NUIG for the purpose of the project activities, such as combined live demonstrations and theoretically oriented lectures and workshops to be carried out. In addition to these pilot settings,

- **Testbed** pilot will be set up at IMP premises (see [“Blue building”](#)), providing a training site for direct deployment of advanced technologies delivered by the strategic partners.

More information about the pilots will be given at the following link <https://project-sinergy.org/Pilots>.



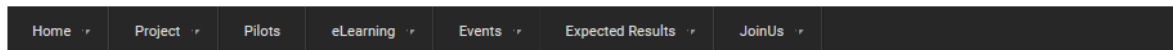
2.4. eLearning

The eLearning Submenu, <https://project-sinergy.org/eLearning> leads to:

- [About eLearning materials](#)
- [Smart grid technologies \(see Figure 3\)](#)
- [Energy efficient building operation \(see Figure 4\)](#)



Capacity building in Smart and Innovative
eNERGY management

 Search

[Home >](#)

Standards for Integrating PV in Electricity Grids

Submitted by [valentina.janev](#) on Tue, 05/11/2021 - 16:31

[Read more](#) 0 views

The availability of appropriate, application-oriented standards and codes is a key prerequisite to streamline the integration of PV into the electricity grids and ensure interoperability, reliability and efficiency even under high-penetration scenarios.

Modern ICT/Automation Approaches for Smart Grids and Industrial Environments

Submitted by [valentina.janev](#) on Mon, 05/10/2021 - 12:56

[Read more](#) 0 views

There is a continuously growing demand for electricity, which must be satisfied by the electric energy systems worldwide. At the same time, a stable supply must be guaranteed. The current situation with CO2 emissions and global warming has created an obvious trend towards a sustainable electric energy system. The integration of Renewable Energy Sources (RES) is an important requirement.

Emerging Technologies for Power Electronics Systems in Smart Grids

Submitted by [valentina.janev](#) on Fri, 03/05/2021 - 13:00

[Read more](#) 0 views

This course addresses the role of wide bandgap semiconductors for power electronics will be introduced. Furthermore, basic principles of these semiconductors but also IGBTs and MOSFETs will be discussed. Drivers and challenges regarding power electronics and integration as well as a more global perspective on this technology will address the potential of this technology.

Rapid prototyping and reliability assessment of inverter-based DER devices

Submitted by [valentina.janev](#) on Fri, 03/05/2021 - 12:54

[Read more](#) 0 views

Simulation and modelling of Power Converters and Power Conversation Systems

Figure 3. SINERGY eLearning Website - AIT Lectures



Capacity building in Smart and Innovative
eNERGY management

 Search

- Home
- Project
- Pilots
- eLearning
- Events
- Expected Results
- JoinUs

Home >

The Challenges and Opportunities in Optimising the Holistic Environmental Performance of Buildings

Submitted by [valentina.janev](#) on Thu, 06/03/2021 - 14:41

[Read more](#) 1 view

Buildings have a unique environmental operational profile dependent on many factors that include the period of their design and construction, how they may be designed, retrofitted and operated over their lifetime to meet continuously evolving building standards relating to climate, structure, occupant health and engagement, energy systems efficiency and eventual decarbonisation.

Temperature Sensing Optimization for Home Thermostat Retrofit

Submitted by [valentina.janev](#) on Wed, 05/26/2021 - 11:38

[Read more](#) 0 views

Reduced-Order Models as Web Application for Energy Management: Barriers and Challenge

Submitted by [valentina.janev](#) on Mon, 05/10/2021 - 16:15

[Read more](#) 0 views

Deep Reinforcement Learning for Home Energy Management System Control

Submitted by [valentina.janev](#) on Mon, 05/10/2021 - 16:14

[Read more](#) 0 views

Bridging BMS and SmartGrids: updating legacy and new technology to match XXI century energy flexibility demands

Submitted by [valentina.janev](#) on Fri, 03/05/2021 - 13:24

[Read more](#) 0 views

Building Information and Energy Modelling to support Near Zero Energy Buildings

Figure 4. SINERGY eLearning Website - NUIG Lectures



2.5. Events

The Events Submenu, <https://project-sinergy.org/Events> leads to:

- [Past Events \(see Figure 5\)](#)
- [Forthcoming Events \(see Figure 6\)](#)

The screenshot displays the SINERGY website's Events page. At the top left is the SINERGY logo with the tagline "Capacity building in Smart and Innovative eNERGY management". A search bar is located at the top right. A navigation menu below the logo includes links for Home, Project, Pilots, eLearning, Events, Expected Results, and JoinUs. The breadcrumb trail shows "Home > > Events >".

The first event listed is "Integrated Energy Value Chains, CIBEK 2021, Belgrade, Serbia", submitted by valentina.janev on Thu, 03/18/2021 - 14:18. It has 0 views. The text below the event title states: "It is our pleasure to invite you to the keynote talk **Integrated Energy Value Chains - Overview of Technologies and Lessons Learned** that will be given by Dr."

The second event is "SINERGY Kick-off meeting, 14 January 2021", submitted by valentina.janev on Thu, 01/21/2021 - 13:43. It also has 0 views. The text below the event title states: "We're very pleased to announce that the SINERGY Kick-off meeting was held ONLINE on 14 January 2021. The meeting was opened by Dr. Nikola Tomašević followed by the introduction of meeting participants. Prof. Sanja Vraneš, Institute's General Director introduced the Coordinating organization with a special focus on previous and **ongoing internationally funded research projects** related to the energy domain."

At the bottom of the page, there is a "Contact" section featuring the European Union flag and the text: "Funded by the Horizon 2020 Framework Programme of the European Union". Below this, it states: "This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 952140."

Figure 5. SINERGY Past events in 2021



Capacity building in Smart and Innovative eNERGY management

Search

- Home
- Project
- Pilots
- eLearning
- Events
- Expected Results
- JoinUs

Home > > Events >

SINERGY Session at the Belgrade Big Data Analytics Summer School

Submitted by [valentina.janev](#) on Thu, 01/21/2021 - 14:27

[Read more](#)

After the successful organization of the first [Belgrade Big Data Analytics Summer School in 2019](#) and the online [summer school in 2020](#), the Institute Mihajlo Pupin will organize the [3rd edition of the event](#) from 15 to 17th of June 2021.

Hardware-in-the-Loop (HIL) Simulation Method, IEEE PES GM 2021

Submitted by [valentina.janev](#) on Wed, 04/28/2021 - 13:28

[Read more](#)

As scientific dissemination, the activities in the "SINERGY" project with a specific focus on Hardware-in-the-Loop (HIL) simulation methods will be presented at the IEEE PES GM. The PES Task Force "Innovative teaching methods for modern power and energy systems" already approved a 10-15 min slot within the TF meeting in which we will present our indented work. This applies for the TF meetings at the IEEE PES GM 2021 and 2022, respectively.

First SINERGY Workshop - Smart Grid Technologies

Submitted by [valentina.janev](#) on Thu, 01/21/2021 - 13:50

[Read more](#)

Figure 6. Future events



Capacity building in Smart and Innovative eNERGY management

Search

- Home
- Project
- Pilots
- eLearning
- Events
- Expected Results
- JoinUs

Home > > Events >

Submitted by [valentina.janev](#) on Thu, 01/21/2021 - 14:27

0 views

After the successful organization of the first [Belgrade Big Data Analytics Summer School in 2019](#) and the online [summer school in 2020](#), the Institute Mihajlo Pupin will organize the [3rd edition of the event](#) from 15 to 17th of June 2021.

The SINERGY Consortium will prepare four lectures. The Session is scheduled for 16th of June 2021, from 1.30 to 16.00.

Programme

IMP

- [Nikola Tomašević - SINERGY Project - Overview of activities](#)

AIT

- [Thomas Strasser: Modern ICT/Automation Approaches for Smart Grids and Industrial Environments \(Invited Lecture\), more info](#)
- [Friederich Kupzog: Reference architectures for Smart Grids \(Invited Lecture\), more info](#)

NUIG

- [Federico Seri: Temperature Sensing Optimization for Home Thermostat Retrofit\), more info](#)
- [Luis M. Blanes: Reduced-Order Models as Web Application for Energy Management: Barriers and Challenge \(Invited Lecture\), more info](#)

Date

Wed, 06/16/2021 - 12:00

Event category

[Workshop](#)

Figure 7. Example of announcement of an event



2.6. Expected Results

The Expected Results Submenu, <https://project-sinergy.org/Results> leads to:

- [Deliverables \(see Figure 8\)](#)
- [Publications](#)
- [Preceding publications](#)

Sinergy
Capacity building in Smart and Innovative eNERGY management

Home Project Pilots eLearning Events Expected Results JoinUs

Home > > Results >

Dissemination Level - Any -

Apply

WP: WP1

WP	Del No	Title	Partner	Deadline	Access
WP1	D1.1	Project Work Plan	IMP	2021-03	Restricted
WP1	D1.2	Project Work Plan Update	IMP	2022-03	Restricted
WP1	D1.3	Quality Control Plan and Contingency Measures	IMP	2021-03	Restricted
WP1	D1.4	Peer-reviewed publications of the coordinating institution	IMP	2021-02	Restricted
WP1	D1.5	Data Management Plan	IMP	2021-06	Restricted

WP: WP2

WP	Del No	Title	Partner	Deadline	Access
WP2	D2.1	Smart Energy Management Landscape and SWOT Analysis	AIT	2021-06	Restricted
WP2	D2.2	Strategic Capacity Development Plan	IMP	2021-06	Restricted

WP: WP3

WP	Del No	Title	Partner	Deadline	Access
WP3	D3.1	Training Courses and Learning Material on Smart Grid Technologies (v1)	AIT	2022-03	Public
WP3	D3.2	Training Courses and Learning Material on Smart Grid Technologies (v2)	AIT	2023-06	Public
WP3	D3.3	Training Courses and Learning Material on Energy Efficient Building Operation (v1)	NUIG	2022-03	Public

Figure 8. SINERGY Deliverables - website



2.7. JoinUs

The SINERGY consortium currently uses the following social media channels:

- LinkedIn Page, <https://www.linkedin.com/company/project-sinergy-org/> (see Figure 9)
- Twitter, <https://twitter.com/H2020Sinergy> (see Figure 10)

in Search

Home My Network Jobs Messaging Notifications Me Work Try Premium Free for 1 Month

You are viewing this page as a member [View as admin](#)

Sinergy

Project SINERGY
This project has received funding from the European Union's Horizon 2020 research and innovation programme, GA 952140.
Research · 6 followers

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About

The primary objective of SINERGY is to strengthen the research capacity and further unlock the innovation potential of IMP, transforming it into a regional Centre of Excellence in the smart energy management. Once established, as a novel regional excellence centre, IMP will promote the added value of smart energy management technologies, co-ordinate... see more

[See all details](#)

Your dream job is closer than you think
[See jobs](#)
LinkedIn

Pages people also viewed

PLATOON DigitalEnergy Project Information Services
1,543 followers
3 connections work here
[Following](#)

Figure 9. SINERGY LinkedIn page



The screenshot shows a web browser window displaying the Twitter profile for Project SINERGY (@H2020Sinergy). The browser's address bar shows the URL https://twitter.com/H2020Sinergy. The Twitter navigation menu on the left includes Home, Explore, Notifications, Messages, Bookmarks, Lists, Profile, and More. The profile header features the Project SINERGY logo, a back arrow, the name 'Project SINERGY', and '1 Tweet'. Below the header, the profile bio states: 'This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 952140.' It also includes a website link 'project-sinergy.org' and the text 'Joined January 2021'. The profile statistics show '3 Following' and '4 Followers', with a note 'Not followed by anyone you're following'. At the bottom, there are tabs for 'Tweets', 'Tweets & replies', 'Media', and 'Likes', and a 'Promoted Tweet' section.

Figure 10. SINERGY Twitter account



3. Implementation Details

3.1. About the Drupal CMS

There are different state-of-the-art solutions for content management systems that can be utilized to develop and maintain a platform such is required by the SINERGY consortium. The most commonly utilized are WordPress, Joomla and Drupal. Following previous experiences from ongoing and completed twinning projects, the following list of key features has been isolated as the most crucial for the CMS of choice:

- Technical advancement
- Security features;
- Customization capabilities;
- Active user community;
- Performances.

With regards to the other two choices, Drupal is the most powerful mentioned platform and is chosen as an ideal one for creating a complex website as SINERGY necessitates. Drupal is boasted as a highly stable, highly versatile open-source platform that can facilitate many users. Furthermore, owing to its active community, it offers a couple of thousands of themes as well as numerous plugins that can be used to easily extend the platform.

However, it should also be noted that Drupal it is a notably more complex choice than the other two, but in turns provides more technical advances and a lot of features and functionalities. Furthermore, it offers strong, enterprise-grade security to the websites that use it, resulting in significantly more security as compared to WordPress for example. Finally, its resource requirements are relatively low, resulting in quick operation.

The architecture of Drupal CMS is modular. Concretely, it consists of a few core modules and a vast number of different plug-ins that can be switched on and off as required. The core provides basic services which enable the modules to implement specific features as presented in the next figure. On the other hand, for missing functionalities, a new plug-in can be easily developed or included.

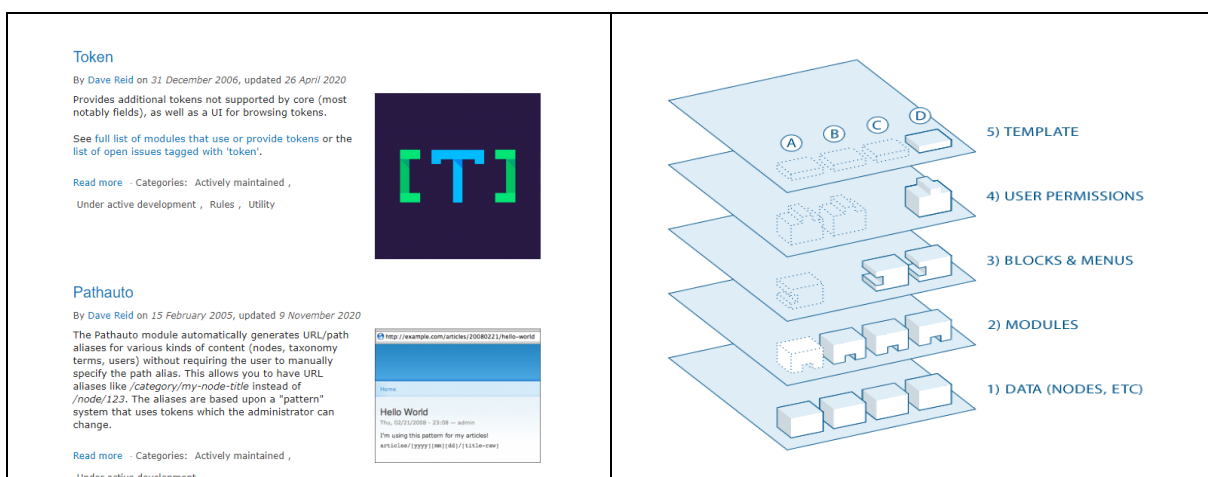


Figure 11. Overview of Drupal modules (left) and abstractions layers (right)

The architecture is divided into several layers of abstraction which have shared responsibility. The layers are:



- Data layer,
- Modules layer,
- Block and Menus layer,
- User permissions layer and
- Template layer,

as shown on Figure 11.

3.2. Platform Information Architecture

The platform is a set of web pages that could contain many types of content, such as informational pages (articles), news items, lectures pages, etc. In Drupal, each item of content is called a *node*, and each node belongs to a single *content type*, which defines various default settings for nodes of that type, such as whether the node is published automatically and whether comments are permitted.

NAME	DESCRIPTION	OPERATIONS
Article	Use <i>articles</i> for time-sensitive content like news, press releases or blog posts.	Manage fields
Basic page	Use <i>basic pages</i> for your static content, such as an 'About us' page.	Manage fields
Deliverable		Manage fields
Event		Manage fields
Lecture		Manage fields
Private		Manage fields

Figure 12. Platform - content types



Manage fields ☆

[Edit](#) [Manage fields](#) [Manage form display](#) [Manage display](#)

[Home](#) » [Administration](#) » [Structure](#) » [Content types](#) » [Deliverable](#)

[+ Add field](#)

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Access	field_access	Entity reference	Edit ▼
Attachment	field_attachment	File	Edit ▼
Body	body	Text (formatted, long, with summary)	Edit ▼
Deadline	field_deadline	Date	Edit ▼
Del No	field_del_no	Text (plain)	Edit ▼
Partner	field_partner	Entity reference	Edit ▼
WP	field_wp	Entity reference	Edit ▼

Figure 13. Platform - content type - R&D organization

Example: In order to structure the information, each content type is described with a set of attributes, see Figure 13.

3.3. Maintaining activities

The SINERGY platform with all its contents is maintained by the IMP team.

The server is regularly updated with security components that prevent malicious cyberattacks, while unintended users are blocked by IMP administrators.



4. Conclusion

This document provides an early overview of the functionality that is provided by the SINERGY website/portal. The document pays special attention to the structure of the website and its features stemming from the underlying CMS in relation to the requirements from the portal from the perspective of a twinning project that is intended to facilitate cooperation and knowledge exchange between different institutions. Furthermore, the SINERGY website, as described in this deliverable, is designed and deployed as a centralized hub of data, information and various other types of materials that could be of potential use for both the consortium partners as well as different institutions working in the domain of energy. The document also lists other means of communication between the consortium and interested third parties.