



PROJECT: SIDERWIN

Deliverable:

D8.1

Title:

Project website

Date: 29 December 2017

Version: 1.0

Website: <https://www.siderwin-spire.eu/>

D8.1 Project Website by TECNALIA

Status

☒ Final

☐ In Progress. Please explain: ☐ Iterative Process – This year's results have been 100% achieved.
☐ Delay – This year's results were not fully achieved.

Tracking Changes

Version	1.0	Issue to EC
---------	-----	-------------

Level of Dissemination

☐ Confidential

☒ Public

Author(s)

	Partner name	Name of the author
Main Author	TECNALIA	Mónica Serna Ruiz

Table of Contents

1	EXECUTIVE SUMMARY.....	4
2	TECHNICAL CONTENT.....	6
3	SIDERWIN WEBSITE.....	7
3.1	HOME.....	9
3.2	OBJECTIVES.....	10
3.3	WORK PACKAGES.....	11
3.4	CONSORTIUM.....	12
3.5	DOCUMENTS.....	12
3.5.1	<i>Deliverables.....</i>	<i>13</i>
3.5.2	<i>Papers and posters.....</i>	<i>13</i>
3.5.3	<i>Others.....</i>	<i>13</i>
3.6	COCREATION AREA.....	14
3.7	NEWS.....	15
3.8	EVENTS.....	15
3.8.1	<i>Project meetings.....</i>	<i>16</i>
3.8.2	<i>Dissemination.....</i>	<i>16</i>
3.9	CONTACT US.....	17
4	CONCLUSIONS.....	18

1 Executive summary

This document is a deliverable of WP8 of the European commission funded project, SIDERWIN (Grant Agreement no. 768788, under the H2020 framework and the SPIRE initiative) and presents the website of SIDERWIN project (available at the following link <https://www.siderwin-spire.eu/>) and all the sections that constitute it.

The deliverable D 8.1 “Project Website” is under the responsibility of TECNALIA and it is associated with Task 8.1 Communication and dissemination actions.

The website has been created at the beginning of the project to publicize the start of the project and the envisioned objectives, increase their visibility and promote the dissemination activities. It is planned that the website will be updated throughout the project, including updated information about the project, news and events.

The website is oriented to the dissemination of the objectives and results of the project, being available different areas: (i) for downloading dissemination materials and public documents of the project (deliverables, papers, posters,...), (ii) for displaying project tweets, (iii) for accessing the collaborative portal between the partners.

People interested in special topics of the project will be able to ask for information through the Contact Us section.

Project logo choice is part of the website development. Different logo designs were proposed to the consortium by TECNALIA, as WP8.1 Leader. After an internal voting process among all the partners, the following logo was selected:



Figure 1 Project's logo

D8.1 Project Website by TECNALIA

In addition, a short-logo is also designed for other purposes, such as the Twitter and LinkedIn profile picture.



Figure 2 Short project's logo

2 Technical content

This document is a deliverable of WP8 of SIDERWIN's project and is associated to Task 8.1 "Communication and dissemination actions". The goal of this document is to present the project website and all their relevant parts.

The SIDERWIN website has been developed making use of DRUPAL 7 tool. The main criteria for selecting this tool have been to base the developments on:

- Open Source Tools with dynamic communities behind them.
- Tools allowing powerful scalability.

DRUPAL 7 is a friendly and powerful Content Management Platform for building websites that can vary from blog and microsites to collaborative social communities. It is an open source solution with a very active community around it. DRUPAL is a very flexible, scalable and powerful platform with a lot of possibilities for Web's development.

During the preparation of the proposal, the idea was that the project website will be the main communication tool of the project, where updated information and dissemination material will be published. For the internal communication among project partners, Dynergie will create and maintain an intranet accessible only through credentials. The link to this collaborative tool, to facilitate the communication within the consortium and act as repository for documents is found in the Cocreation Area section of the website.

The next sections describe the different parts and utilities of the SIDERWIN website and present briefly the Cocreation area. It is worth pointing out that the updating and improving of the website will be a continuous process, so changes in the structure and format described in this document could be carried out along the project life.

3 SIDERWIN website

The SIDERWIN website is available at the following link: <https://www.siderwin-spire.eu/>.

To emphasize the nature of the website as the official website of a project funded by the European Commission (EU) under the Horizon2020 framework, the “.eu” domain was chosen. In addition, to reflect the project is under the SPIRE PPP initiative, the “spire” term was included in the name.

The goal of the website is the dissemination of the project objectives, results, events and initiatives, providing essential information related to the project and the partners. For this purpose, specific sections of the website provide:

- A brief introduction to the project
- A description of project objectives and work packages
- A presentation of the partners involved
- Access to public documents of the project such as public deliverables, open access papers, etc
- Access to dissemination materials such as presentations, brochures, posters and videos
- Information related to the status of the project through news, events and public documents
- Social media links to follow and share the project activities
- The possibility to get in touch with the consortium

The structure of the page is shown in Figure 3:

- On the left it can be find: i) the menu, ii) the logo of EU that is funding the project, iii) the SPIRE project logo and a link to <https://www.spire2030.eu/> in order to acknowledge SIDERWIN as a project that is in line with the SPIRE PPP targets, iv) a private area accessing only by registered website administrators, and v) an area to display the project links to Social Media, such as Twitter and LinkedIn, and last Tweets information (@siderwin_spire account)
- At the bottom, the logos of the partners of the consortium and the general information of the project is reported (Project title, acronym, partners, project

D8.1 Project Website by TECNALIA

ID, duration (start and end dates), and a link to the Call). Clicking on a project partner logo the user will be redirected to the associated partner dedicated page. The next sections of the document describe each one of the sections of the page, providing also a screenshot of the corresponding section.



Figure 3 SIDERWIN website: vertical navigation bar, left part with SPIRE and EU logos, and links to project Twitter and LinkedIn sites, Last Tweets, footer with partner names and general information about the project

D8.1 Project Website by TECNALIA

3.1 Home

The *Home* section provides an overview of the project describing: the need, the objective, the approach and the benefits of the project.

The screenshot shows the Siderwin project website. At the top, the logo features a red Greek letter sigma (Σ) followed by the word "Siderwin" in green. To the right, the text reads: "Development of new methodologies for InDustrial CO2-free steel pRduction by electroWINning". Below the logo, a navigation menu on the left lists: Home, Objectives, Work Packages, Consortium, Documents, Cocreation area, News, Events, and Contact Us. The main content area has the heading "Development of new methodologies for InDustrial CO2-free steel pRduction by electroWINning". It states that SIDERWIN is a European project under the Horizon 2020 framework and the SPIRE initiative. A paragraph explains that steel production represents 4% of Europe's CO2 emissions, necessitating CO2 mitigation. An image shows a steel-making process with a red arrow pointing to a city, indicating emissions. Text describes the project's goal: a breakthrough innovation in steel making using electrochemical processes. It details the electrolysis process using renewable energies to transform iron oxides into iron metal and oxygen gas, reducing CO2 emissions. A list of benefits includes: 87% reduction in direct CO2 emissions, 31% reduction in direct energy use, the ability to produce steel from non-ferrous metallurgy residues, and increased integration with renewable energies. A paragraph mentions the project is led by ArcelorMittal and aims to develop a 3-metre-long experimental pilot. On the left, there is a funding notice from the European Union's Horizon 2020 programme, a European Union flag, and a SPIRE PROJECT logo. Below that is a "MEMBERS PRIVATE AREA" login section with fields for username and password, and a "Login" button. Further down are "Follow Us" links for Twitter and LinkedIn, and a "Tweets by @siderwin_spiro" section showing a tweet about the Horizon 2020 project. At the bottom right, there is a section titled "ULCOWIN PILOT" showing a photograph of the pilot setup and a diagram of "Cell Versions" (N°1, N°2, N°3) and "Iron samples" (770mm long, 4kg, 4.3mm thick). A caption below reads: "ULCOWIN pilot used in IERO project to validate the feasibility of the technology at TRL 4".

Figure 4 Home section (only part of the screenshot, by eligibility footer has not been included)

3.2 Objectives

The *Objectives* section describes the main objectives for the SIDERWIN project, as well as the background of the project.



Development of new methodologies
for Industrial CO₂-free steel
production by electroWINning

- » Home
- » **Objectives**
- » Work Packages
- » Consortium
- » Documents
- » Cocreation area
- » News
- » Events
- » Contact Us

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 768788




Objectives

SIDERWIN project aims at developing an **innovative electrochemical process to transform iron oxide into steel metal plates**. This process, based on the ULCOWIN technology developed since 2004, produces steel by electrolysis **without direct CO₂ emissions**. In this operation, electrical energy and iron oxide are converted into chemical energy consisting of separated iron metal from oxygen gas. It is a disruptive innovation that entirely shifts the way steel is presently produced.

Electrolysis is the main processing unit of an iron-making route beginning with mineral iron ore and producing liquid steel.



Electrochemical processing route for steel production and ULCOWIN technology to decompose iron oxides

The new technology will contribute to the achievement of the strategic goals defined by the European Commission for Europe 2020. Full deployment of such technology will deliver significant contributions to European Union objectives of CO₂ emission reduction, of energy efficiency improvement, of increased share of renewable energy and of material resource efficiency.

Furthermore, as a breakthrough technology addressing the processing route of a large and energy intensive industry it would fully participate into several flagship initiatives such as the "Innovation Union", "Industrial Policy for the Globalisation Era", "Resource efficient Europe" and "Agenda for new skills and jobs".

MEMBERS PRIVATE AREA


Follow Us



Tweets by @siderwin_spire

 **Horizon 2020**
@EU_H2020

Adapting #Heritage environments to modern requirements
ec.europa.eu/research/info...
#EnergyUnion#Environment#H2O2#InvestEU#research#ResearchImpactEU

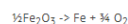


[Embed](#) [View on Twitter](#)

Main Objectives

The consortium has set **five main objectives**:

The **first objective** is to develop, build and demonstrate the production of iron metal from its oxide without direct involvement of carbon or fossil fuels and according to the simplest stoichiometry of the reaction of iron oxide decomposition:



The **second objective** is to produce iron by electrowinning with a prototype cell equipped with the key components of the final version.

The **third objective** is to interface the electrowinning prototype cell with a communication system to operate it according to electric grid priorities in real time.

The **fourth objective** is to produce iron metal from iron oxide coming from low-grade iron ore incompatible with the conventional process and from residues of non-ferrous metallurgies.

The **fifth objective** is to propose a profitable model that should facilitate the financial support of the next development steps of the ULCOWIN process. Thus, bridging the "valley of death" between TRL 6 and 8 where investment is too high for research programs and too risky for industrial participation.



Specific objectives of SIDERWIN project

D8.1 Project Website by TECNALIA

Background

SIDERWIN project takes over the ULCOWIN part generated from the ULCOS and IERO projects. The objective is to go one step further than both the IERO and the VALORCO projects in order to provide a TRL 6 demonstrator in the form of a 3 metre-long pilot answering the need to reduce the CO₂ emissions in the steel industry and easing its integration with RES.

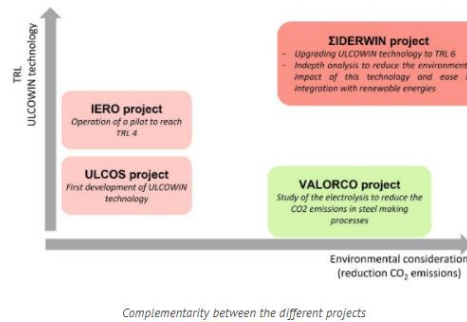


Figure 5 Objectives section (footer has not been included)

3.3 Work Packages

The *Work Packages* section describes the eight work packages and the relation between all of them.

Figure 6 Work packages section (only part of the screenshot by space constraints)

D8.1 Project Website by TECNALIA

3.4 Consortium

The *Consortium* section provides an overview of the SIDERWIN consortium and information of each one of the twelve partners: logo, general description of the organization and a link to the partner website.



Figure 7 Consortium section (only part of the screenshot by space constraints)

3.5 Documents

The *Documents* section will make available to the external audience all the public information produced by the SIDERWIN consortium. This section has been divided in three categories according to the typology of the documents. These three categories are:

D8.1 Project Website by TECNALIA

- Deliverables
- Papers and posters
- Others

3.5.1 Deliverables

The *Deliverables* sub-section provides a list of all deliverables produced in the project sorted by work package. In addition, the public deliverables will be able for downloading just clicking the title of the deliverable. At the moment of producing this deliverable, no deliverables have been produced, so the sub-section is empty, and only the list of work packages appears.

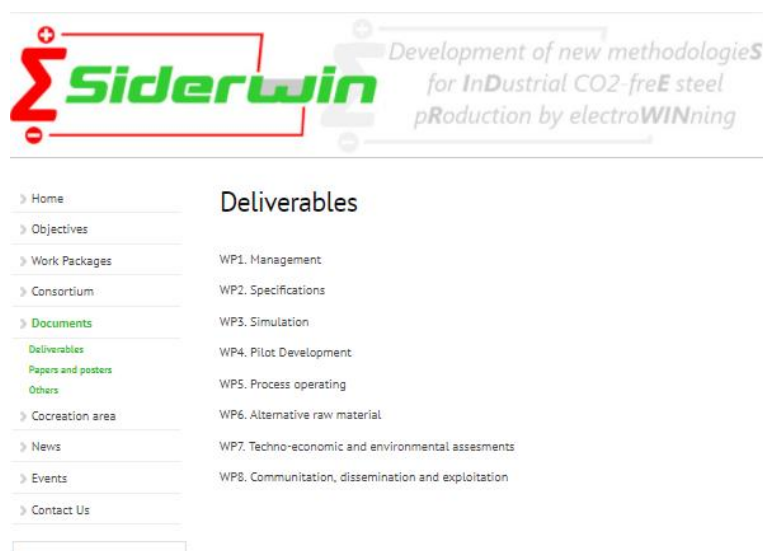


Figure 8 Deliverables sub-section (only part of the screenshot by space constraints)

3.5.2 Papers and posters

The *Papers and posters* sub-section offers the possibility to download public papers and posters of the SIDERWIN project by clicking on the corresponding item. At the moment of producing this deliverable, no public papers/posters have been produced, so the section is empty (See Figure 9).

3.5.3 Others

The *Others* sub-section offers the possibility to download the dissemination material produced by the consortium (such as flyers, presentations, videos...) by clicking on the corresponding item. At the moment of producing this deliverable, no dissemination material has been produced, so the section is empty (See Figure 10).

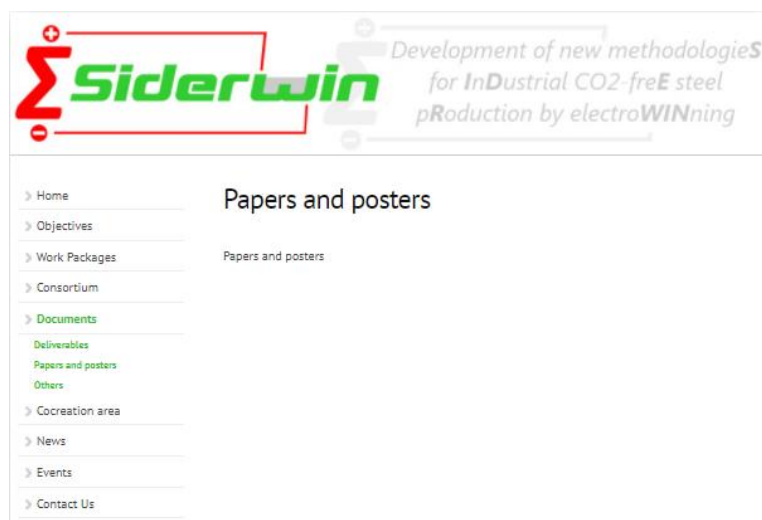


Figure 9 Papers and posters sub-section (only part of the screenshot by space constraints)

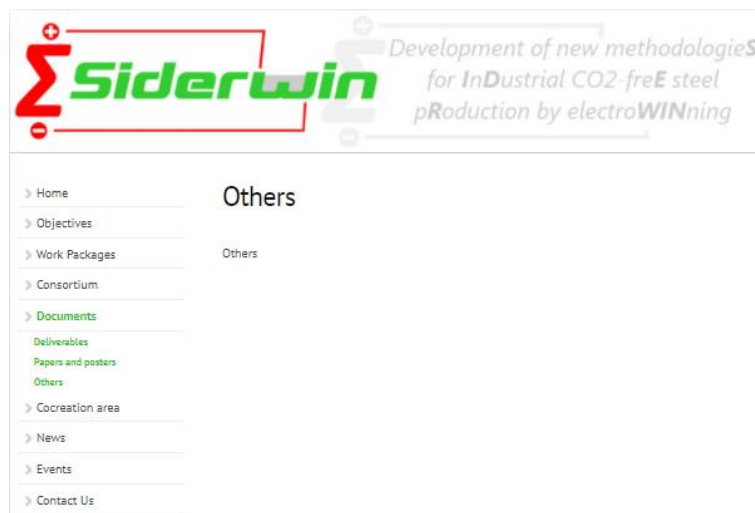


Figure 10 Others sub-section (only part of the screenshot by space constraints)

3.6 Cocreation area

The *Cocreation area* section provides a link to the intranet of SIDERWIN project developed by Dynergie.

In order to ease the communication between the partners and support the project management functions such as task assignments, time-managing deadlines and milestones among others, Dynergie have created a collaborative platform that is completely dedicated to the SIDERWIN project. All the project partners, and the partners only, will be able to access the platform and take advantage of the tools at their

D8.1 Project Website by TECNALIA

disposal. The goal of this platform is to gather all the important elements of the SIDERWIN project together in one place and make them available anytime, anywhere.

3.7 News

In the *News* section the external audience will be informed about the news related to the SIDERWIN project. At the moment of producing this deliverable, no news are available, so the section is empty (See Figure 11).

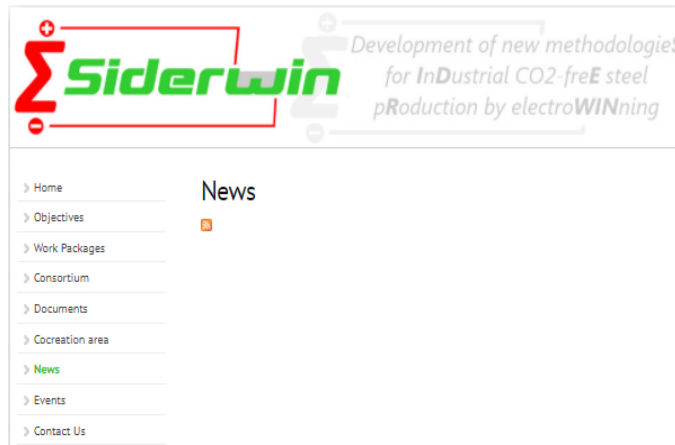


Figure 11 News section (only part of the screenshot by space constraints)

3.8 Events

The *Events* section will inform to the external audience about the events related to the SIDERWIN project. There is a main screen with near future events, and two categories accessible through the left menu:

- Project meetings
- Dissemination

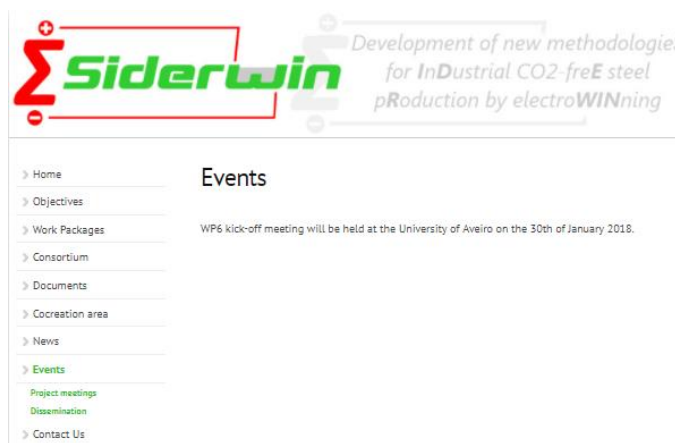


Figure 12 Events section (only part of the screenshot by space constraints)

D8.1 Project Website by TECNALIA

3.8.1 Project meetings

In the *Project meetings* sub-section the external audience will be informed about the meetings of the SIDERWIN consortium. Clicking on the meetings name, a brief description will be displayed.



Figure 13 Project meetings sub-section (only part of the screenshot by space constraints)

3.8.2 Dissemination

In the *Dissemination* section the external audience will be informed about the SIDERWIN dissemination events. At the moment of producing this deliverable, no dissemination activities have taken place, so the section is empty.



Figure 14 Dissemination sub-section (only part of the screenshot by space constraints)

3.9 Contact Us

The *Contact Us* section has been implemented with the aim to provide to the public audience the contact points where asking for more information about the project.

By completing the form and clicking on the send message icon, an email will be submitted to:

- Project coordinator
- Dynergie, as support of the coordinator in administrative matters
- Tecnalia, as leader of Communication, dissemination and exploitation work package.

Siderwin Development of new methodologies for Industrial CO₂-free steel production by electroWINning

» Home
» Objectives
» Work Packages
» Consortium
» Documents
» Cocreation area
» News
» Events
» **Contact Us**

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 768788

SPRE PROJECT

Contact Us

Your name *

Your e-mail address *

Subject *

Message *

Send message

Project Coordinator
ArcelorMittalMaizières Research SA
Voie Romaine, BP 30320
Maizières-lès-Metz Cedex 57283
France

Principal Investigator
Hervé Lavelaine de Maubeuge
Email: hervelavelaine@arcelormittal.com
Phone: +33 (0)3 87 70 47 25

Figure 15 Contact us section (only part of the screenshot by space constraints)

4 Conclusions

This report describes the SIDERWIN website (www.siderwin-spire.eu). The main objective of the website is to ensure the dissemination of the project results, events and initiatives. For this reason, the page has been divided in the following main sections:

- Home
- Objectives
- Work Packages
- Consortium
- Documents
- Cocreation area
- News
- Events
- Contact Us

The updating and improving of the website will be a continuous process, so changes in the structure and format described in this document could be carried out along the project life.