

Min Water CSP



MinWaterCSP

Minimized water consumption
in CSP plants

Deliverable 10.7:
Communication / Dissemination actions at events
– part 2
WP 10, Tasks 10.5 Events

Date of document
31/01/2018 [M25]

Version: REV02

Dissemination Level: Public

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Document History

Project Acronym	MinWaterCSP		
Project Title	Minimized water consumption in CSP plants		
Project Coordinator	Falk Mohasseb (Falk.Mohasseb@kelvion.com)		
Project Duration	1 st January 2016 to 31 st December 2018		
Deliverable No.	D10.7 Dissemination actions: Print and digital tools - part 2		
Diss. Level	Public		
Deliverable Lead	S2i		
Status		Working	
		Verified by other WPs	
	X	Final version	
Due date of deliverable	31/01/2018		
Actual submission date	31/01/2018		
Work Package	WP 10 - Communication & Dissemination		
WP Lead	S2i		
Contributing beneficiary(ies)	1 – Kelvion Holding 2 – Kelvion 3 – Fraunhofer 4 – UROME 5 – ECILIMP 6 – SUN 7 – Notus 8 – SOLTIGUA 9 – ENEXIO 10 – IRESEN 12 – WATERLEAU 13 – S2i 14 – ENEXIO MGT		
Date	Version	Person/Partner	Comments
11.01.2018	REV01	Charlotte Schlicke / S2i	
28.01.2018	REV02	Charlotte Schlicke / S2i	Input and quality check

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0 Publishable Summary

The Communication and Dissemination activities of the MinWaterCSP consortium comprise diverse tools to reach and promote the project achievements and results.

The following deliverable report describes in more detail the event related activities carried out by the consortium during the last 12 months (M14-25).

The objective of this task is to:

- **Create wide visibility** and
- to **ensure the acceptance of the technological improvements** of the MinWaterCSP project as well as of its activities and benefits among the public, technical and legislative audience by **awareness raising** communication actions.
- **Share experiences and best practices** by carrying out networking and coordination activities with other projects funded within similar calls under Horizon 2020.

The Communication and Dissemination activities are led by Steinbeis 2i GmbH and carried out by all partners of the MinWaterCSP consortium which consists of: Kelvion Holding GmbH [overall coordinator] (Germany), ENEXIO Management GmbH [technical coordinator] (Germany), Kelvion Thermal Solutions Pty Ltd. (South Africa), Fraunhofer ISE (Germany), Sapienza University of Rome (Italy), ECILIMP Termosolar SL (Spain), Stellenbosch University (South Africa), Notus Fan Engineering (South Africa), Laterizi Gambettola s.r.l. – SOLTIGUA (Italy), ENEXIO Germany GmbH (Germany), Institut de Recherches en Energie Solaire et Energies Nouvelles – IRESEN (Morocco), Steinbeis 2i GmbH (Germany), WATERLEAU Group NV (Belgium).



1 Introduction

WP 10 provides a platform to communicate about the progress and outcomes of the technical activities but also about the outcomes of WP11 related to defined exploitable results and exploitation actions. Therefore, all partners have been involved in all tasks of WP10 in the last 12 months (M14-M25).

This deliverable report is presenting an update of D 10.4 (submitted in M13) and describes in more detail the Communication and Dissemination activities related to events in the last project period:

- Events organised / co-organised within the project
- External events

All activities have been performed as planned in Annex I. No deviations have occurred.

There will be another update of these activities in Del. 10.9 (due in M36).



2 Objectives and expected Impact

The Communication and Dissemination plan (D10.1 M3) presented the overall objectives of the whole set of activities performed within WP10.

By organising and participating in events, the objective is to **establish closer contacts with strategic stakeholders (physical meetings)** who are able to positively influence the project approaches by **providing relevant information or expertise**. Besides, these stakeholders can further act as multipliers for the dissemination of the project progress in the context of WP10 activities. Actions will be implemented at regional, national, EU and international level.

The WP actions aim to foster strong and sustainable contacts to the target groups.

The participation at events and the organisation of events (such as the first MinWaterCSP conference) offer the opportunity to identify and get in touch with suitable stakeholders for networking and know-how exchange, e. g. for the replication of project activities.

By **creating synergies with similar projects**, the number of relevant stakeholders can be increased. For more information, please refer to the chapters 3.1.1 and 3.1.2.

By cumulating all event activities, the project reached an audience of over 1.000 people in the last 12 months.

All activities in WP10 also aim to support the impact of WP11.



3 Events

In order to reach new audiences and to keep contact with identified stakeholders, it is necessary to attend conferences, workshops and other events in the field of concentrated solar power, water or advanced material. In the context of these events, the project is presented in Power Point presentations, on exhibition stands, with posters or through active networking. Thus, the MinWaterCSP project partners have reached over 1.000 people in the last 12 months.

PARTNER	ACTION
All partners	Promoting the project at events and advertising events among their stakeholders
S2i	Supporting the organisation of the first conference taking place in Marrakech in April 2018
IRESEN	Main organisation of the first conference taking place in Marrakech in April 2018
Kelvion Holding	Supporting the organisation of the first conference taking place in Marrakech in April 2018
ENEXIO Mgt	Supporting the organization of the first conference taking place in Marrakech in April 2018
Fraunhofer, ECILIMP, UROME, Kelvion TS, IRESEN, Kelvion Holding, ENEXIO MGT	Supporting the organization of the conference as “session chairs”, proposal of topics and speakers, contacting speakers.

Table 1: Contributing Partners

3.1 Project Events

3.1.1 MinWaterCSP conferences

The MinWaterCSP consortium will organise two conferences, one in Morocco in Month 28 and a final one in South Africa in Month 30.

3.1.1.1 MinWaterCSP conference in Marrakech, Morocco

The organization of the first international MinWaterCSP conference started in July 2017. The conference will take place in Marrakech, Morocco from 24th to 25th April 2018.

Overview:

The topic of this event will be *Reduction of water consumption in Concentrated Solar Power (CSP) plants* with a special focus on new approaches in mirror cleaning, cooling and simulations.

The two-day conference will give valuable insights into innovative solutions for mirror cleaning and anti-soiling, air-cooled condensers and cooling towers, axial flow fan development, simulation-based analysis of water consumption and water management strategies. Besides, participants will get the exclusive opportunity to visit the demo-site at Green Energy Park in Ben Guerir.



The aim of this conference is to present and discuss new technological solutions to minimize water consumption in CSP plants as well as to create networking opportunities.

Target group:

Power utilities, Power plant operators, Technology suppliers, Research institutes and Academia, stakeholders for mirror cleaning, cooling processes or similar, any users of those technologies, policy makers and investors interested in the topics as well as the press.

Duration: 2-day event with 1.5 days of conference and 0.5 day of site visit.

Conference language: English

Link to conference website: <http://www.minwatercsp.eu/conference-marrakech-april-2018/>

- Link to programme: <http://www.minwatercsp.eu/programme/>
- Link to registration: <https://www.eventbrite.de/e/minwatercsp-conference-reduction-of-water-consumption-in-csp-plants-tickets-39299893038?aff=minwaterwebsite>

Status of planning:

The planning started in July 2017, the structure is as following: within the two days there will be plenary sessions and parallel sessions of specific topics lead by a session chair and containing up to 5 short presentations and the opportunity of discussions with the experts. The programme has been published on the Project Website and the registration has been opened in January 2018. The programme updates will be made for the sessions (presentation titles) and the specific speakers. The MinWaterCSP partners have identified speakers from the MinWaterCSP consortium, sister projects, H2020 CSP projects and externals which are currently contacted.

DAY 1 - 24th April 2018

08:30 – 09:30	<i>Registration and welcome coffee</i>
09:30 – 09:45	Welcome
09:45 – 11:15	Key notes
11:15 – 12:15	<p>PLENARY SESSION</p> <p>Session 1: Introduction to MinWaterCSP – technology overview</p> <p>The <u>MinWaterCSP</u> consortium addresses the challenge of significantly reducing the water consumption of CSP plants while maintaining the overall cycle efficiency. Its objective is to reduce evaporation losses and mirror cleaning water consumption for small- and large-scale CSP plants through a holistic combination of next generation technologies. This session will introduce the CSP technologies further developed in the project.</p>
12:15 – 13:30	<i>Lunch break</i>



PARALLEL SESSIONS	
13:30 – 14:45	<p>Session 2a: Cleaning Activities and Systems for Heliostats and Parabolic Troughs</p> <p>The session gives insights into advances and the current state of development in cleaning systems for the MinWaterCSP project. A special focus is drawn on the on-site tests performed and the main results.</p>
14:45 – 15:15	<p>Session 2b: Innovative developments for air cooled condensers and cooling towers</p> <p>This session addresses innovations for air-cooled condensers and cooling towers regarding a more compact geometry of air side surface enhancement, the incorporation of conventional ACC technology together with water deluged cells, and a fundamental study on minimization of fouling.</p>
14:45 – 15:15	Break
15:15 – 16:30	<p>Session 3a: Axial Flow Fan Development for MinWaterCSP project</p> <p>This session addresses the axial flow fan development in MinWaterCSP with a special focus on the development process of large diameter fans, innovative fan drive aspects, fan noise and manufacturing.</p>
15:15 – 16:30	<p>Session 3b: Simulation-based analysis of water consumption in CSP plants</p> <p>This session deals with the estimation of water consumption and quality in cooling and mirror cleaning as well as the evaluation of water saving technologies. Besides, it illustrates the impact of the advanced methodologies on CSP plants' annual performance.</p>
16:30 – 16:45	Break
16:45 – 18:00	<p>Session 4a: Availability, sources and managing strategies of water</p> <p>In this session, methods of assessing water availability are presented. Experiences with different water sources and with multi-source operation are shown. Moreover, efforts in the direction of a zero-liquid discharge operation, experiences with evaporation ponds and zero-blowdown cooling system operation are introduced.</p>
16:45 – 18:00	<p>Session 4b: Measurement and analysis of soiling and its impact on degradation</p> <p>The session is about the characterization and prediction of soiling and focuses mainly on the topics measurement and site assessment, degradation due to soiling and anti-soiling methods.</p>

DAY 2 - 25th April 2018

09:00 – 10:00	Registration and welcome coffee
10:00 – 10:30	<p>Welcome and introduction to the day</p> <p>Introduction session with summary of day before</p>
10:30 – 12:00	<p>PLENARY SESSION</p> <p>Session 5: Best practice towards water consumption reduction in CSP</p> <p>In this panel, industry partners from different CSP projects funded under the EU Horizon 2020 framework programme present and discuss about their best practices with a special focus on different aspects of water saving in CSP plants.</p>
12:00 – 12:10	Conclusions of overall conference
12:10 – 13:00	Lunch break
12:00 – 17:00	Site visit at Green Energy Park
17:00	End of conference

Table 2: Programme of conference published (12/2017)

Advertising of the conference

A “SAVE THE DATE” notices have been distributed via Social Media and Newsletter already in 2017.

In December 2017 a special section dedicated to the conference has been integrated into the MinWaterCSP website. The draft conference programme has already been published online and the registration is open.



3.1.1.2 MinWaterCSP conference in Stellenbosch, South Africa

The next conference is planned as final conference which will take place Stellenbosch, South Africa organized by partner SUN supported by the consortium. It is planned in November 2018. The preparation started in January 2018.

3.1.2 Joint events

In 2017, no joint events with other LCE projects have been organized. However, other joint activities such as two newsletters and social media representations were undertaken (see also Periodic Report M18 and Del. 10.6).

Sister projects and other projects with similar topics funded under Horizon 2020 will be invited as contributors to the two conferences organized by MinWaterCSP in Morocco and South Africa.



3.3 External Events

During the second year, the MinWaterCSP partners joined 17 events. The project was presented to an audience of over 1.000 people.

Date of Event	Title of Event	City / Country	Type	National/ International	Type of audience reached	Partner (short name)
12.01.2017	GEP royal inauguration	Ben Guerir, Morocco	Other	International	Legislative bodies, government, partner industry and academia	IRESEN
17.01.2017	GPPF	Zurich, Switzerland	Participation to a conference	International	Industry, scientific community	URROME
08.02.2017	GENERIE-Abschlusskonferenz	Stuttgart, Germany	Participation to a conference	National	Scientific community	S2i
19.04.2017	1 st Joint Euro-Mediterranean Industry and Innovation Roundtable on Solar Thermal Electricity <i>(provided a new business platform for European and Moroccan companies opening up new business opportunities in emerging African markets)</i>	Casablanca, Morocco	Brokerage event	International	ESTELA, the Moroccan Solar Cluster, industry, national bodies, Delegation of the EU to Morocco, Moroccan Agency for Solar Energy (MASEN)	Waterleau
16.-17.05.2017	Enterprise Europe Network: Sector group meeting "Intelligent Energy"	Cracau, Poland	Participation to a workshop	EU	EEN members (multiplier, RTD, chambers of commerce, economic development agencies)	S2i
30.-31.05.2017	Solar Paces Task3 Reflectance Working Group	Almeria, Spain	Organisation of a workshop	International	Scientific community	Fraunhofer ISE
31.05.-02.06.2017	Intersolar Europe 2017	Munich, Germany	Participation to a conference / or trade fair	International	Industry, scientific community, customers	Soltigua



Date of Event	Title of Event	City / Country	Type	National/ International	Type of audience reached	Partner (short name)
14.-17. 06.2017	CSPPLAZA Conference	Hangzhou, China	Participation to a conference	International	Scientific community (higher education, research), industry, policy makers, media, investors, customers	Fraunhofer ISE
20.-22. 06.2017	European Sustainable Energy Week	Brussels, Belgium	Participation to a conference	International	Industry, scientific community	S2i
26-30. 06.2017	TurboExpo2017	Charlotte, USA	Participation to a conference	International	Scientific community, industry, policy makers, national interest groups	URROME
27.-29. 06.2017	POWER-GEN Europe 2017	Cologne, Germany	Trade fair	International	Industry, scientific community, customers	ENEXIO Germany, Kelvion Holding
12.-13. 07.2017	Green Africa Innovation Booster	Marrakech, Ben Guerir, Morocco	Pitch event	International	Start-ups, government & representatives, academic community	IRESEN
13.-14. 07.2017	STERG SYMPOSIUM 2017	Stellenbosch, South Africa	Participation to a conference	International	Scientific community, plant operators, ZA representatives of Solarreserve, ACWA and Abengoa	SUN
26.-29. 09.2017	23rd Conference on Solar Power and Chemical Energy Systems - SolarPaces 2017	Santiago, Chile	Participation to a conference	International	Scientific community & CSP industry and developpers	Fraunhofer ISE
29.10.-02.11. 2017	Solar World Congress 2017	Abu Dhabi, United Arab Emirates	Participation to a conference	International	Scientific and academic community	IRESEN



Date of Event	Title of Event	City / Country	Type	National/ International	Type of audience reached	Partner (short name)
03.11.2017	SAIMEche post graduate conference	Stellenbosch, South Africa	Participation to a conference	National	Scientific and academic community	SUN
06.12.2017	Women4Energy	Stuttgart, Germany	Participation to a conference	International	Industry, scientific community, customers	S2i

Table 3: List of events in which partners participated (2017)



4 Gantt chart and Deliverable overview for WP10

MinWaterCSP Gantt chart		Project year / month																									
WP		Year 1												Year 2												Y3	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
10	Communication & Dissemination																										
10.1	Corporate identity			D10.1																							
10.2	MinWaterCSP Website			D10.1		D10.2													D10.5								
10.3	Stakeholder identification			D10.1																							
10.4	Printed & digital communication			D10.1		D10.2								D10.3													
	<i>project leaflet</i>					D10.2													D10.5								
	<i>press releases</i>													D10.3													D10.6
	<i>Publications</i>													D10.3													D10.6
	<i>Master PPT</i>																										
	<i>eNewsletter</i>													D10.3													D10.6
	<i>Roll-up Banner</i>					D10.2																					
	<i>Blogs / Articles</i>													D10.3													D10.6
	<i>Social Media</i>													D10.3													D10.6
10.5	Events			D10.1										D10.4													D10.7

Table 4: MinWaterCSP gantt chart and Deliverable Report overview for WP10

