

ALL-GAS



**INDUSTRIAL SCALE DEMONSTRATION OF
SUSTAINABLE ALGAE CULTURES FOR BIOFUEL
PRODUCTION**

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EXECUTIVE SUMMARY

The report ASSESSMENT ON EXHIBITION, SEMINARS AND CONFERENCE PARTICIPATION OF ALL-GAS OIL compiles all the events developed and/or attended by the consortium from the beginning of the Project. The main objective of these activities is to provide an effective and coordinated dissemination of the research, achievements and project results in Europe and the rest of the world.

The approach is based on the idea that the Project has different publics:

- All sectors from industries to possible users, opinion leaders and RTD performers
- The scientific community
- The media (general and specialized) as an interesting public and also a stakeholder we can disseminate our messages through.
- The general public, taking into account a broader non-expertise audience

Keywords: Dissemination

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1 INTRODUCTION

1.1 Purpose and Scope

From the very beginning of the project, a wide dissemination activity was carried out by the consortium, focusing on the policy background of the project, on its general objectives, on the achievements and on the expected results.

In particular, during the 3rd period of the project the consortium has been very active in promoting among all audiences the project progress, focused on the operation of the prototype started in September 2014 at Chiclana de la Frontera (Cádiz, Spain), with cultivation area of 1.000 m², as well as the arrival of VW as new partner for the fleet demonstration.

The main objectives of these activities are:

- To provide effective and coordinated dissemination project results in Europe and world-wide, reaching all possible users, opinion leaders and RTD performers.
- To attract potential technology and service purchasers for the industrial and research partners of the consortium.
- To promote uptake and exploitation of concepts and technologies developed in the project.

In order to achieve these goals, the project develops and/or attends to several types of events:

- Participation in conferences and exhibitions (Task 14.2), see Table 2 below.
- Seminars for industry, regulators and researchers (Task 14.3, M48-M60)
- Special-end of project dissemination event (M48-M60)

This report is focused in the first group of events, as the others are planned for the coming periods.

All the tools, as flyers, posters or website (www.all-gas.eu) used during these events and initiatives have been developed as a part of an integrated communication strategy and with the same “look and feel”.

1.2 Reference documents

- [DoW] “Description of Work” for All-gas Project, final version 26/03/2014
- Deliverable 1.3. *Plan for Using and Disseminating the knowledge* (M12)

2 DISSEMINATION ACTIVITIES

2.1 Events

➤ **Kick-off of All-gas Project. 20th May 2011, Madrid, Spain.**

The meeting took place in the FCC Aqualia's headquarters in Madrid, Spain. All the members of the consortium attended this session, chaired by Kyriakos Maniatis, as a representative of the European Commission.

Taking advantage of the Kick-off a public signature of the Consortium Agreement was made in an auditorium, so that this constituted the first dissemination event of the project.

Hart Energy, a member of the BIOFAT project, and responsible of the dissemination also attended the Kick-off meeting and gave a presentation, in order to align the efforts for the dissemination process.



Figure 1. Kick-off event, Madrid, 20th May 2011

➤ **International presentation “A paradigm shift: from wastewater to bioenergy”. 5th March 2012, London, UK.**

Both national and international media were invited to this event (Figure 3), in order to promote the All-gas project in international agenda. That is the reason why the consortium chose London as an important place of reference all over the world.

The event was prepared in detail, so all the items were designed and produced with the image of the project. Invitations were sent previously to the rest of the members of the consortium and also to the media (Figure 2).



Figure 2. Invitation for the event “a paradigm shift: from wastewater to bioenergy”

As a result of the effort, the event was successful: 10 national and international media attended the presentation, leading to at least 25 international and 40 Spanish media publishing the event.



Figure 3. International presentation of All-gas at London

From left to right: Prof. Charles Banks (SOTON); Frank Rogalla, (Aqualia); Miguel Jurado, (Aqualia); Denise Green (Biofuels, Europe & Africa, Hart Energy) and Felicia Jackson, (Clean Tech magazine)

➤ **1st meeting of the consortium. 22th May 2012, Chiclana de la Frontera, Cádiz, Spain**

The annual meeting took place in El Torno WWTP, in Chiclana de la Frontera, where the whole consortium could visit the place where the project is developed (Figure 5). The mayor of Chiclana, Ernesto Marín, unveiled a commemorative plaque (Figure 4).

The media attended at this call and as a result 20 articles were generated. Furthermore, 2 videos are available in the website and the following links:

<http://www.youtube.com/watch?v=KJVqdneEYmE>

<http://www.youtube.com/watch?v=2sxtXN0XY94&feature=plcp>



Figure 4. Design of the commemorative plaque in El Torno WWTP



Figure 5. Members of the consortium and local authorities visiting El Torno WWTP



Figure 6. All-gas billboard situated in the entrance of El Torno WWTP, Chiclana de la Frontera

➤ **Site visit by a Reuters Journalist. May 2013, Chiclana de la Frontera, Cádiz, Spain.**

A site visit by a Reuters Journalists in May, and related publication at the end of June 2013 (Figure 7), led to hundreds of articles on the project worldwide, such as half a page in Le Monde, and with many publications in Asia and the Americas picking up the piece, with follow-up questions and visits from Japan and China (Figure 8)



Figure 7. Cover of the publication of Reuters in June 2013

非洲低收入人群对小信贷的需求体现在创业、就医、上学、生活困难等方面

微型金融越发显活力

本报记者 李海

核心阅读

在肯尼亚首都内罗毕，一位40岁的女性创业者正在向一群年轻人传授创业经验。她名叫玛丽亚·瓦加，是当地一家名为“微型金融”的创业培训机构的负责人。瓦加说，她创办这家机构是为了帮助那些没有足够资金创业的人。她认为，微型金融是解决非洲低收入人群创业难题的关键。

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当好中国形象的“流动窗”

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践行文明出境游

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非洲低收入人群 对微型金融需求迫切

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治污水产能源 小微藻大能量

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欧版「量宽」只是一张「底牌」

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欧版央行暗示将出台新的宽松政策

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联合派气候报告承认 全球温室气体排放正在加剧

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日本熊本县发生5.8级地震

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Figure 8. Article about the visit to the All-gas site in the Chinese newspaper “People’s daily”, April 2014.

➤ Visit of the Swedish committee from the city of Lund, 27th November 2013, Chiclana de la Frontera, Cádiz, Spain.

In November 2014, a committee of experts from Lund (Sweden) visited the All-gas facilities in Chiclana (Figure 9). This visit was attended from various organizations such as public bodies, private companies and universities, and it was a great opportunity to exchange experiences and to promote the project.



Figure 9. The Swedish committee from Lund during the visit

As a result of the visit, a press release was published in both Spanish and English (Figure 10). Later, the city of Lund invited the All-gas team on an advisory board of their project financed by the Swedish Government on new solutions for a “warm and clean city”.



NOTA DE PRENSA

Un comité técnico de la ciudad sueca de Lund visita las instalaciones de All-gas

Expertos del país nórdico en proyectos relacionados con la distribución de agua y el biogás han mantenido una reunión de trabajo en la sede de Chiclana Natural, tras la que se desplazaron a la EDAR de El Torno para visitar *in situ* los avances de All-gas

Chiclana, 27 de noviembre de 2013

Una comisión técnica procedente de la ciudad sueca de Lund ha realizado una visita a las instalaciones de Chiclana Natural y a la EDAR de El Torno para conocer los avances del proyecto All-gas. Frank Rogalla, director de Innovación y Tecnología de **aqualia**, recibió a los técnicos suecos, acompañado por la directora del Departamento de Agua de Chiclana Natural, Patricia Segovia, y el técnico de Depuración de la empresa municipal, Jesús Barragán.

Como máximo responsable técnico del proyecto, Rogalla ha realizado una disertación sobre las principales líneas de investigación que se integran en All Gas. Posteriormente el grupo compuesto por nueve personas, y encabezado por el experto en biogás Markus Paulsson, se desplazó hasta la EDAR, donde tomó contacto con las instalaciones.

Los técnicos suecos han mostrado especial interés en los avances que se han experimentado en la planta chiclanera relativos al cultivo de microalgas y su transformación para la consecución de energías limpias; al tiempo que aportaron información sobre el aprovechamiento que se realiza del biogás en Suecia, país en el que está muy extendido como combustible para los transportes públicos.

Entre los expertos nórdicos presentes se encontraban técnicos de empresas dedicadas a la generación de biogás; de la compañía que suministra el agua de la red pública de la ciudad de Lund y del Ayuntamiento de la localidad sueca.

Actualmente All-gas es el mayor proyecto del mundo dedicado en convertir algas en energía limpia a través de aguas residuales. Recientemente consiguió su primer gran éxito con la obtención de los primeros kilos de cultivo de biomasa a partir de microalgas. Su objetivo final es obtener biocombustibles a bajo coste a partir de las aguas residuales y contribuir al mismo tiempo a la depuración de éstas últimas.

Rogalla explicó que este proyecto, de cinco años de duración, ya ha superado la primera fase de piloto sobre las instalaciones de 200 metros cuadrados de superficie construidas en el recinto de la EDAR de El Torno. Actualmente se están ejecutando los trabajos para la construcción de la planta prototipo sobre una hectárea en terrenos colindantes. La última fase será la demostrativa a escala real sobre una superficie de 10 hectáreas. All-gas cuenta con un presupuesto de 11,5 millones de euros financiados por la UE con 7,1 millones de euros.

Para más información:

Dpto. de Comunicación **aqualia** www.aqualia.es www.all-gas.eu / Ayto. de Chiclana 956490143

Figure 10. Press release about the visit of the Swedish committee

- **Visit of the Slovak delegation from the Industrial park Štúrovo, 18th February 2014, Chiclana de la Frontera, Cádiz, Spain.**

Seven technicians and executive managers from Projektservis¹, a company located in the Industrial park Štúrovo (Slovakia), visited the All-gas Site in February 2014 (Figure 11), in order to study possible technologies for their implementation in a similar project initiated in January 2014 whose aim is the treatment of wastewater from an ethanol plant.



Figure 11. The Slovak delegation from the Industrial Park Štúrovo during the visit

- **European Algae Biomass Conference, ACI. 6th-7th May 2014, Seville, Spain.**

ACI's 4th annual European Algae Biomass Conference brought together senior executives from industry and academia to discuss the latest commercial and technical developments, challenges and research breakthrough the entire algae value chain.

The conference had a heavy focus on case study examples of latest technologies in operation in the global algae industry, and also included an exclusive site visit to the All-gas Project Site. During the afternoon of 5th May 2015, up to 60 conference attendees (Figure 12) received a unique opportunity to visit All-gas facilities in Chiclana de la Frontera.

¹ Projektservis is a non-profit organization dedicated to technological research in the field of algae and wastewater treatment.

ACI



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- **General Assembly & Algae Cluster Meeting. 8th-9th May 2014, Seville and Chiclana de la Frontera, Cádiz, Spain.**

The consortium took the opportunity to combine the GA Meeting held on June 9 in Chiclana with the Algae Cluster meeting, held in Seville on 8th May 2014. The 3 Algae Cluster projects (FP7 call 2010), BIOFAT, InteSusAl and All-gas (<http://www.algaecluster.eu>), were represented in Seville for a meeting presided by Olivia Le-Boulch (EC Officer). The session was attended by all partners of the consortium, and John Benemann and Rupert Craggs, as members of the All-gas SAB, were also invited.

The Algae Cluster meeting also included a presentation by *Hart Energy* on the Dissemination Plan (Tammy Klein by phone) and of *D'Appolonia* on the Algae Bioenergy Siting Tender contract (Lorenzo Facco and Nicoletta Robertelli). After the meeting, the attendants could visit the works carried out in the All-gas facilities in Chiclana (Figure 13)



Figure 13 Members of the consortium, Olivia Le-Boulch (EC Officer) and local authorities during the visit

- **Cenit VIDA Project²: Closing event. 20th May 2014, Chiclana de la Frontera, Cádiz, Spain.**

On May 20, 2014 the closing event of the VIDA project took place in El Torno WWTP in Chiclana de la Frontera. This initiative, finished in 2013, has been previous and has promoted

² The project VIDA was selected in 2010 in the 6th call for projects by the Ministry of Science and Innovation (CDTI, Centre for Industrial Technology Development) as part of its “Cenit” programme. With a total investment of €19 million, this initiative led by BERDROLA, aims to generate and create the knowledge and technology necessary to recover and fully harness algae in a sustainable way.

the All-gas project and both have strong synergies: in that way the event was an excellent opportunity to exchange experiences and to promote the All-gas project.

Up to 80 attendees received a unique opportunity to visit All-gas facilities in Chiclana de la Frontera: the visit was attended by heads of the municipalities of Chiclana, Arcos and Benalmádena, and several municipalities of Granada (Spain), as well as the public company Aljarafesa. Likewise, universities participants in the project were present (Almería, Cádiz and Valladolid), as well as the Andalusian Energy, Innovation and Development Agency (IDEA) and several private companies as Azucarera, Biorizon and CENTA, among others.



Figure 14. Invitation for the Closing event of the Centit VIDA project



Figure 15. Attendees to the Closing Event of the Centit VIDA project

- **Visit of the EXPOVAL Project committee, 11th May 2015, Chiclana de la Frontera, Cádiz, Spain.**

In May 2015, a committee of experts of the EXPOVAL³ Project visited the All-gas facilities in Chiclana, being a great opportunity to exchange experiences about new lines of research in energy sources generation from microalgae and wastewater. The Table 1 below shows the attendance list for the visit:

Attendant	Entity
Prof. Dr.-Ing. Holger Scheer	Emscher Wassertechnik GmbH
Dr.-Ing. Tim Fuhrmann	Emscher Wassertechnik GmbH
Prof. Dr. mult. Karl-Ulrich Rudolph	IEEM – University of Witten/Herdecke
Mr. Sebastian Weil	(IEEM – University of Witten/Herdecke)
Mr. Leonard Fuchs	Fuchs Enprotec GmbH
Mr. Heiner Fuchs	Fuchs Enprotec GmbH
Mr. Gunnar Klinspor	Ultrawaves

Table 1. Attendance list for the visit of the EXPOVAL Project committee

- **Visit of a French production team, 2015, Chiclana de la Frontera, Cádiz, Spain.**

Thanks to the visit of a French production team to the Chiclana Facilities, a video describing the activities and progress of the All-gas project is available under the following link:

http://www.lemonde.fr/sciences/video/2015/06/05/a-quand-l-essence-d-algue-dans-nos-voitures_4648426_1650684.html

³ The Project “Technology transfer-oriented research and development in the wastewater sector - validation at industrial-scale plants (EXPOVAL)”, sponsored by the BMBF (Federal Ministry of Education and Research of Germany) focuses on the extension of the existing design approaches so as to cover relatively high and relatively low wastewater temperatures and elevated salt concentrations. In addition, specific issues relating to individual wastewater treatment processes are also to be examined.

2.2 Congress, conferences, seminars and symposiums

The All-gas partners have been very active in the participation in events within these 45 months. The table below shows a complete list of all the activities carried out during the whole life of the project until now. These activities can be summarized into:

- International events: members of the consortium have participated in different congresses, conferences and activities for all kind of publics.
- Different national or regional events, including specialized, scientific or general acts. Different members of the All-gas team have attended these activities in order to explain and disseminate the project, often as invited lecturers in important key conferences.

ACTUAL DATES	TYPE	TYPE OF AUDIENCE	COUNTRIES ADDRESSED	LINK/FURTHER INFO	PERSON INVOLVED
AQUALIA					
15-17/05/2011	CONFERENCE AT 3 RD ALGAE WORLD EUROPE “TECHNICAL & ECONOMIC FEASIBILITY OF WASTEWATER BASED ALGAE BIOFUEL PRODUCTION”. Madrid, Spain	Specialized	International	http://www.cmtevents.com/EVENTSCHEDULE.ASPX?EV=110522&	Frank Rogalla
18/05/2011	“WASTEWATER AS A RESOURCE: HARVESTING, ENERGY & NUTRIENTS”. Berlin, Germany	Scientific	International	http://www.watermeetsmoney.com/	Frank Rogalla
10/06/2011	XXXI JORNADAS TÉCNICAS DE AEAS. Cartagena, Spain	Specialized	Spain	http://hispagua.cedex.es/sites/default/files/hispagua_documento/Informe_XXXI_Jornadas_AEAS.pdf	Frank Rogalla
29/06/2011	WATER NETWORKING EVENT. London, UK	Scientific	International	http://www.pinsentmasons.com/PDF/FOURTEENTHWETNETWORKING.PDF	Frank Rogalla
26-29/09/2011	2011 IWA REUSE CONFERENCE. Barcelona, Spain	Specialized	International	http://www.waterbcn2011.org/	Frank Rogalla
20/02/2012	“LA I+D+I AL SERVICIO DE LA GESTIÓN INTELIGENTE EN LOS SERVICIOS DE AGUA”. Córdoba, Spain	Specialized	Regional (Andalucía)	http://www.aguasdecordoba.es/noticias-y-convocatorias/noticias/aguas-de-c%C3%B3rdoba-participa-en-sendas-jornadas-t%C3%A9cnicas-sobre-la	Frank Rogalla
22/03/2012	22 TH MARCH PROGRAM WORLD WATER-DAY- GESTIONA RADIO. Spain	General audience	Spain	www.gestionaradio.com	Frank Rogalla
11/04/2012	UNIVERSITY SEMINAR. Spain	Specialized	Spain	http://.youtube.com/WATCH?V=73WXUIE_U6W	Alberto García
26/06/2012	“FROM WASTEWATER TO BIOFUEL: INNOVATIONS TO RECOVER RESOURCES AND ENERGY FROM MUNICIPAL EFFLUENTS” (ECO STP INTERNATIONAL CONGRESS). Santiago de Compostela, Spain.	Scientific	International	http://www.novedar.com/ECOSTP/	Frank Rogalla

ACTUAL DATES	TYPE	TYPE OF AUDIENCE	COUNTRIES ADDRESSED	LINK/FURTHER INFO	PERSON INVOLVED
10/07/2012	“CULTIVO DE MICROALGAS CON FINES ENERGÉTICOS Y OTROS PRODUCTOS DE ALTO VALOR AÑADIDO” Segovia, Spain	Scientific	Spain	http://www.upm.es/sfs/Rectorado/Cursos%20de%20Verano/Documentacion/TripticoCV2012.pdf	Ignacio de Godos
12/07/2012	I SIMPOSIO INTERNACIONAL SOBRE BIOTECNOLOGÍA DE LAS MICROALGAS”. Almería, Spain.	Scientific	Spain	http://www.hs-anhalt.de/FILEADMIN/DATEIEN/NEWMATERIAL/PROGRAMM_WWW4.PDF	Ignacio de Godos
09/08/2012	ALGAE BIOFUELS & WASTEWATER TREATMENT WEBINAR	Scientific	International	http://www.bluetechresearch.com/tools/webinars/upcoming-webinar-algae-biofuel-in-wastewater-treatment/	Frank Rogalla
3-5/10/2012	X MESA ESPAÑOLA DE TRATAMIENTO DE AGUAS. Almería, Spain	Scientific	Spain	http://www.redmeta.es/meta2012.es/	Frank Rogalla M ^a Ángeles de la Rubia (Soton)
07/11/2012	JORNADA: “BINOMIO AGUA-ENERGÍA: LA INTERRELACIÓN DE DOS RECURSOS ESENCIALES”. Madrid, Spain	Specialized	Spain	http://www.enerclub.es/es/frontBookAction.do?action=viewCategory&id=37&publicationID=1000093174	Pedro Rodriguez
22/03/2013	JORNADA: “INNOVACIÓN Y MEDIOAMBIENTE EN LA INDUSTRIA”. Vigo, Spain	General audience	Galicia (Spain)	http://www.eoi.es/fdi/vigo/jornada-innovaci%C3%B3n-y-medioambiente-en-la-industria	José Ramón Vázquez
24-26/04/2013	EUROPEAN ALGAE BIOMASS. Vienna, Austria	Specialized	Austria	http://www.wplgroup.com/aci/conferences/eu-eal3.asp	Frank Rogalla
23/06/2013	JORNADA: “EL AGUA COMO DINAMIZADOR DE LA ECONOMÍA “ Cádiz, Spain	Specialized	Spain	http://andaluciainformacion.es/arcos/318856/profundizan-en-el-agua-comodinamizador-de-la-economia/	Enrique Lara Pedro Rodriguez
25-28/06/2013	13 TH WORLD CONGRESS ON ANAEROBIC DIGESTION. Santiago de Compostela, Spain	Scientific	International	http://www.ad13.org/	Frank Rogalla Charles Banks Enrique Lara
18-19/09/2013	JORNADAS TÉCNICAS GALLEGAS DE ENERGÍAS RENOVABLES. Vigo, Spain	Specialized	Galicia (Spain)	http://jornadagallegasrenovables.blogspot.com.es/	José Ramón Vázquez

ACTUAL DATES	TYPE	TYPE OF AUDIENCE	COUNTRIES ADDRESSED	LINK/FURTHER INFO	PERSON INVOLVED
01-02/10/2013	CHEMH2O. Madrid, Spain	Specialized	International	http://www.chemh2oconference2013.com/	Frank Rogalla
17-18/10/2013	WORKSHOP: WATER BEYOND EUROPE. Brussels, Belgium	Specialized	International	http://www.acqueau.eu/?s=Water+beyond+Europe	Frank Rogalla
23/10/2013	IX JORNADAS TÉCNICAS DE TRANSFERENCIA TECNOLÓGICA SOBRE MICROBIOLOGÍA DEL FANGO ACTIVO. Seville, Spain	Scientific	Spain	http://www.bibliotecagbs.com/WEBCORPORATIVA/jornadas.html	Ignacio de Godos José Ramón Vázquez
13-14/11/2013	9 TH EWA BRUSSELS CONFERENCE. Brussels, Belgium	Scientific	International	http://www.ewa-online.eu/calendar-detail/events/id-9th-ewa-brussels-conference.html	Frank Rogalla
20-21/11/2013	IX JORNADAS TÉCNICAS DE SANEAMIENTO Y DEPURACIÓN (ESAMUR). Murcia, Spain	Specialized	Murcia (Spain)	http://www.esamur.com/jornadas/index.php?paginaactiva=contenedor_historico.php&paginaactiva2=presentacion_historico.php&jornada=16	Frank Rogalla
05-09/05/2014	17 TH EWA SYMPOSIUM DURING IFAT 2014. Munich, Germany	Specialized	International	http://www.ewa-online.eu/ http://www.ifat.de/en/Visitors	Frank Rogalla
06-07/05/2014	EUROPEAN ALGAE BIOMASS. Seville, Spain	Scientific/ Specialized	International	http://www.wplgroup.com/aci/conferences/eu-eal4.asp	Frank Rogalla
15-16/05/2014	IWA EUROPEAN UTILITY CONFERENCE. Oslo, Norway	Scientific/ Specialized	International	http://www.ewa-online.eu/calendar-detail/events/iwa-european-utility-conference-2014.html	Frank Rogalla
12-14/06/2014	IWA CONFERENCE: ACTIVATED SLUDGE - 100 YEARS AND COUNTING. Essen, Germany	Specialized	International	http://www.iwa100as.org/	Frank Rogalla
17/06/2014	4 TH UK ALGAE CONFERENCE. Cranfield, UK	Specialized	International	https://www.cranfield.ac.uk/about/events/listings/events-2014/4th-uk-algae-conference.html	Frank Rogalla Charles Banks
21-26/09/2014	IWA WORLD WATER CONGRESS AND EXHIBITION. Lisbon, Portugal	Scientific/ Specialized	International	www.iwa2014lisbon.org	Zouhayr Arbib, Frank Rogalla, Maikel Fernández,

ACTUAL DATES	TYPE	TYPE OF AUDIENCE	COUNTRIES ADDRESSED	LINK/FURTHER INFO	PERSON INVOLVED
14-17/10/2014	EPSAR COURSE "WASTEWATER TREATMENT IN SMALL AGGLOMERATIONS THROUGH EXTENSIVE TECHNOLOGIES". Valencia, Spain	Specialized	Spain	http://www.lifealbufera.org/docs/Diptico%20EPSAR.pdf	Frank Rogalla
22-23/10/2014	ACI's 3 RD CARBON DIOXIDE UTILISATION SUMMIT 2014. Bremen, Germany	Specialized	European	http://www.wplgroup.com/aci/conferences/eu-cco3.asp	Frank Rogalla
01-03/12/2015	1 ST EABA CONFERENCE AND 8 TH INTERNATIONAL ALGAE CONGRESS. Lisbon, Portugal	Scientific/ Specialized	International	http://algaecongress.com/	Ignacio de Godos
22-23/04/2015	EUROPEAN ALGAE BIOMASS. Amsterdam, The Netherlands	Scientific/ Specialized	International	http://www.wplgroup.com/aci/conferences/eu-eal5.asp	Frank Rogalla
07-10/07/2015	WEF/IWA RESIDUALS AND BIOSOLIDS CONFERENCE 2015: THE NEXT GENERATION OF SCIENCE, TECHNOLOGY, AND MANAGEMENT. Washington, DC, USA	Scientific/ Specialized	International	http://www.wef.org/	Frank Rogalla
07-08/05/2015	REGATEC 2015. Barcelona, Spain	Scientific/ Specialized	International	http://regatec.org/	Ignacio de Godos
BDI					
26/05/2011	ALGAE TECHNOLOGY PLATFORM 2011, PRACTICAL SHORT COURSE: "ALGAE HARVESTING AND PROCESSING FOR VALUE ADDED APPLICATIONS". Brussels, Belgium	Scientific	International	http://www.smartshortcourses.com/PAST_SHORTCOURSES.HTM	Heike Frühwirth
07/09/2011	FACHGESPRÄCHE FORNEBICK, Straubing, Germany	Scientific	Germany	http://www.fornebik.bayern.de/	Elisabeth Kirl

ACTUAL DATES	TYPE	TYPE OF AUDIENCE	COUNTRIES ADDRESSED	LINK/FURTHER INFO	PERSON INVOLVED
13/10/2011	ALGENWORKSHOP, UNIVERSITY OF APPLIED SCIENCE. Köthen, Germany	Scientific	Germany	http://www.hsanhalt.de/FILEADMIN/DATEIEN/NEWMATERIAL/PROGRAMM_WWW4.PDF	Heike Frühwirth
21/10/2011	ANNIVERSARY, UNIVERSITY OF APPLIED SCIENCE. Wels, Austria	Scientific	Austria	http://www.fh-ooe.at/FHOBEROESTERREICH/AKTUELL/PRESSE/FH-OOE-NEWS/FH-OOENEWS/ARTICLE/WELSER-FHSTUDIENGANG-BIO-UNDUMWELTTECHNIK-FEIERT-10-JAEHRIGES-JUBILAEUM/	Elisabeth Kirl
29/11/2011	EUROPEAN ALGAE BIOMASS ASSOCIATION: 2011 EABA ALGAE BIOMASS CONFERENCE. Brussels, Belgium	Specialized	International	http://www.eaba-association.org/en	Heike Frühwirth
01/12/2011	ENALGAE PROJECT LAUNCH. Brussels, Belgium	Specialized	International	www.nweurope.eu/download.php?id=5294&type=doc	Heike Frühwirth
06/12/2011	ALGAE WORKSHOP, JOANNEUM MUSEUM. Graz, Austria	Scientific	Austria	http://www.joanneum.at/DE/JR/NEWS/NEWS-SINGLEDISPLAY/ARTICLE/ALGEN-EINE.HTML	Elisabeth Kirl
25/01/2012	BIOFUEL SUMMIT. Barcelona, Madrid	Specialized	International	http://energy.flemingeurope.com/biofuels-summit	Heike Frühwirth
14/02/2012	ENERGIEINNOVATIONEN, UNIVERSITY OF TECHNOLOGY. Graz, Austria	Scientific	Austria	http://portal.tugraz.at/PORTAL/PAGE/PORTAL/FILES/I4340/ENINNOV2012/ENINNOV2012_PROGRAMM_120212.PDF	Heike Frühwirth
11/04/2012	SMART SHORT COURSES ALGAE. San Diego, USA	Scientific	International	http://www.smartshortcourses.com/ALGAE2/PROGRAM.HTML	Klaus Ruhmer
25/04/2012	EUROPEAN ALGAE BIOMASS. London, UK	Specialized	International	http://www.wplgroup.com/ACI/CONFERENCES/EU-EAL2.ASP	Robert Raudner
22/01/2013	CONFERENCE: “FUEL FOR THE FUTURE”. Berlin, Germany	Specialized	International	http://event.bioenergie.de/INDEX.PHP?OPTION=COM_CONTENT&VIEW=ARTICLE&ID=51&ITEMID=25	Robert Raudner

ACTUAL DATES	TYPE	TYPE OF AUDIENCE	COUNTRIES ADDRESSED	LINK/FURTHER INFO	PERSON INVOLVED
11/09/2014	NETWORK WORKSHOP. Austria	Specialized	Austria	http://www.bioenergy2020.eu/app/webroot/files/file/Programm_Vernetzungsworkshop_Algenforschung_2.pdf (Initialized by the Austrian Ministry for Transport, Innovation and Technology)	Robert Raudner
FhG					
25-26/02/2015	KONGRESS BIO-RAFFINIERT VIII. Leuna, Germany	Scientific/ Specialized	Germany	http://www.umsicht.fraunhofer.de/de/messen-veranstaltungen/2015/kongress-bio-raffiniert/programm.html	Daniel Maga
11-15/05/2015	3RD EUROPEAN WORKSHOP ON LCA FOR ALGAL BIOFUELS AND BIOMATERIALS. Brussels, Belgium	Scientific/ Specialized	International	http://www.marinebiotech.eu/news-and-events/upcoming-events/3rd-european-workshop-lca-algal-biofuels-and-biomaterials	Daniel Maga Frank Rogalla
SOTON					
25-28/06/2013	ABSTRACT ACCEPTED AT THE IWA 13TH WORLD CONGRESS ON AD. Santiago de Compostela, Spain	Scientific/ Specialized	International	N/A	N/A
03-07/06/2013	ABSTRACT ACCEPTED AT THE 21 ST EC BIOMASS CONFERENCE AND EXHIBITION. Copenhagen, Denmark	Scientific/ Specialized	International	N/A	N/A
16-19/06/2013	ABSTRACT ACCEPTED AT THE 3 RD INTERNATIONAL CONFERENCE ON ALGAL BIOMASS, BIOFUELS AND BIOPRODUCTS. Toronto, Canada	Scientific/ Specialized	International	N/A	N/A
19-21/08/2013	ABSTRACT ACCEPTED AT THE CONFERENCE ON PONDS TECHNOLOGY. Cartagena, Colombia	Scientific/ Specialized	International	N/A	N/A
25/04/2014	TALK AT THE KINGS SCHOOL. Gloucester, UK	General audience	UK	N/A	S. Pacheco-Ruiz

ACTUAL DATES	TYPE	TYPE OF AUDIENCE	COUNTRIES ADDRESSED	LINK/FURTHER INFO	PERSON INVOLVED
03/06/2014	UNIVERSITY OF SOUTHAMPTON THEME CONFERENCE. Southampton, UK	Scientific	UK	www.southampton.ac.uk	K.C. Tran, E. Musgrove, K.P. Roberts, C.J. Banks
17/06/2014	4 TH UK ALGAE CONFERENCE. Cranfield, UK	Scientific/ Specialized	UK and international	https://www.cranfield.ac.uk/ABOUT/EVENTS/LISTINGS/EVENT-S-2014/4TH-UK-ALGAE-CONFERENCE.HTML	K.C. Tran, E. Musgrove, K.P. Roberts, C.J. Banks
22-27/06/2014	5 TH CONGRESS OF INTERNATIONAL SOCIETY FOR APPLIED PHYCOLOGY. Sydney, Australia	Scientific/ Specialized	International	http://www.isap2014.com/	J.L. Mendoza Martin
21/09/2014	IWA WORLD WATER CONGRESS AND EXHIBITION. Lisbon, Portugal	Scientific/ Specialized	International	www.iwa2014lisbon.org	C.J. Banks
17/10/2014	8 TH ICBT CONFERENCE ON BIOMASS TECHNOLOGIES. Changsha, China	Scientific/ Specialized	International	www.icbt2014.com	K.P. Roberts
20-24/10/2014	EUROMEDITERRANEAN MICROALGAL BIOTECHNOLOGY SEMINAR & WORKSHOP. Almería, Spain	Scientific	International	http://embs2014.org/	J.L. Mendoza Martin
26/10/2014	BIOGAS SCIENCE CONFERENCE. Vienna, Austria	Scientific/ Specialized	International	biogas2014.boku.ac.at	C.J. Banks
08-09/11/2014	EU-CHINA WORKSHOP ON RESOURCE RECOVERY FROM BIOMASS AND GREEN TECHNOLOGY IN WASTE/WASTEWATER TREATMENT. SJTU, Shanghai, China	Scientific	International	http://sese.sjtu.edu.cn/	C.J. Banks, J.L. Mendoza Martin, K.P. Roberts
11/12/2014	AQUAENVIRO CONFERENCE. Newcastle, UK	Scientific/ Specialized	Europe	www.aquaenviro.co.uk	S. Pacheco-Ruiz

ACTUAL DATES	TYPE	TYPE OF AUDIENCE	COUNTRIES ADDRESSED	LINK/FURTHER INFO	PERSON INVOLVED
12/01/2015	TALK AT THE ARNEWOOD SCHOOL. Hampshire, UK	General audience	UK	N/A	S. Heaven
23/01/2015	TALK AT THE KINGS SCHOOL. Gloucester, UK	General audience	UK	N/A	S. Pacheco-Ruiz
19/03/2015	ALGAE AROUND THE WORLD SYMPOSIUM. Cambridge, UK	Scientific/ Specialized	UK	http://www.bioenergy.cam.ac.uk/abc-directory/algae-around-the-world-2015	E. Musgrove
13/04/2015	EPSRC FUNDED DOCTORAL PROGRAMME. UK	Scientific	UK and international	https://www.epsrc.ac.uk/skills/students/dta/ (Presentation on project to CDT-SIS module participants on EPSRC funded doctoral programme)	S. Heaven
FeyeCon					
22/05/2012	4 TH ALGAE WORLD EUROPE. Munich, Germany	Scientific	International	http://www.cmtevents.com/EVENTSCHEDULE.ASPX?EV=120526&	Geert Feye Woerlee

Table 2. List of Congress, conferences, seminars and symposiums within the first 45 months of the All-gas project

2.3 Future events

Some events have been identified as possible dissemination events for the future, such as:

ACTUAL DATES	TYPE	TYPE OF AUDIENCE	COUNTRIES ADDRESSED	LINK/FURTHER INFO
25-27/08/2015	INTERNATIONAL CONGRESS AND EXPO ON BIOFUELS AND BIOENERGY. Valencia Spain	Specialized	International	http://biofuels-bioenergy.conferenceseries.com/
15-18/11/2015	WORD CONGRESS ON ANAEROBIC DIGESTION. Viña del Mar., Chile	Specialized	International	http://www.ad14chile.com/
13-16/06/2016	13 TH IWA LEADING EDGE CONFERENCE. Jerez de la Fontera, Spain	Specialized	International	http://www.let2016.org/
01-03/12/2015	2 ND EABA AND EC ALGAE CONTRACTORS' CONFERENCE, AND THE 9TH INTERNATIONAL ALGAE CONGRESS. Lisbon, Portugal	Specialized	International	http://algaecongress.com/

Table 3. Future events

3 CONCLUSIONS

At the time of writing, several national and international dissemination events have been attended by all members of the consortium. The project has had an enthusiastic welcoming by the different media. So far, the main aim has been informing about the project objectives and from September 2014, about the operation of the prototype at Chiclana, (with a cultivation area of 1.000 m²) and next milestones.