



Newsletter nº 3

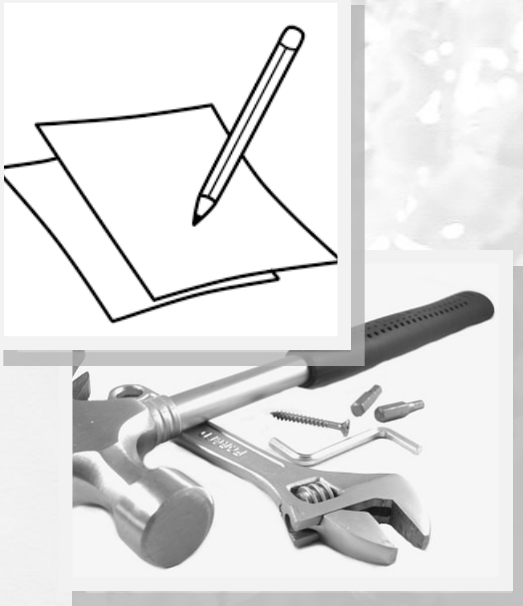


LIFE16 ENV/ES/000437

With the contribution of the LIFE Programme of the European Union

ACTIONS COMPLETED

DESIGN AND CONSTRUCTION OF THE PILOT PLANTS



The **design** of the pilot plants has been carried out following the recommendations and results obtained in the previous actions regarding the optimization of the operating conditions at lab-scale.

The design of the pilot plant from **Viimsi** is essentially formed by an aeration stage, an oxidation stage and a final filtration stage.

The design of the pilot plants from **Tahal, Alboloduy** and **Benizalon** is formed, mainly, by two filtration stages.

Once the design was completed, the pilot plants were built.

OPTIMIZATION OF OPERATING PARAMETERS WITH THE PILOT PLANT AT LAB-SCALE IN THE DWTPs OF ALMERÍA



Different tests have been carried out with the lab-scale pilot plant in situ at the **Benizalon** DWTP. This experimentation has been carried out as a preliminary stage to the construction of the pilot plants in Almeria, for the **optimization** of some of the operation parameters and to evaluate the efficiency of the filtering materials.

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ACTIONS COMPLETED

THE PILOT PLANT FROM VIIMSI (ESTONIA) IS ALREADY RUNNING



The pilot plant is already **installed** and **running** at the **Viimsi** DWTP (Estonia). The design of this plant has been focused on **removing Ra-226, Ra-228**, besides other water pollutants.

Therefore, the **validation** and **operation** tasks of the pilot plant have started. The monitoring of the parameters to be evaluated (radio isotopes and chemical parameters such as iron and manganese), has been begun according to the established sampling plan.

DATABASE OF EUROPEAN DWTPs TREATING WATER WITH NATURAL RADIOACTIVITY

Data from new countries are being incorporated and the databases that are already available are being updated.

To access the database, it is necessary to **request access** to LIFE ALCHEMIA team through a short form available on the project website.

[READ MORE](#)

ENVIRONMENTAL INDICATORS

The **life cycle inventory** is being carried out, selecting the necessary parameters to carry out the Life Cycle Analysis (LCA), collecting data and defining the functional unit for the initial scenario (technology already implemented) and for the pilot scenario (with Alchemia technology implemented).



ACTIONS COMPLETED - DISSEMINATION

LIFE ALCHEMIA IN THE EUROPEAN NIGHT OF RESEARCHERS

LIFE ALCHEMIA project was present and actively participated in the European Night of Researchers held in Almeria (Spain).

The LIFE ALCHEMIA **stand** was attended by our partners from the **Diputación de Almería** and **CIESOL**, who showed the project to all the people from Almeria who participated in the congress.

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INFORMATION SESSIONS IN TWO COLLEGES FROM ALMERÍA (SPAIN)



Our partners from **CIESOL** gave **two informative talks** in two colleges of the Almeria province (IES El Parador in Roquetas de Mar and IES Santo Domingo in El Ejido).

In this way, the teenagers from Almeria could learn more about the project objectives and the proposed solutions to remove natural radioactivity.

[READ MORE](#)



ACTIONS COMPLETED - DISSEMINATION

4TH INTERNATIONAL CONGRESS WATER, WASTE AND ENERGY MANAGEMENT—EWWM 2018

LIFE ALCHEMIA attended and participated in the 4th International Congress **EWWM 2018** hold in Madrid.

Our partners from **CARTIF** exposed the technologies used in the project to remove the natural radioactivity from water as well as the project progresses.

[READ MORE](#)



1ST ENA (EUROPEAN NORM ASSOCIATION) INTERNATIONAL WORKSHOP



The 1st **ENA** workshop organized in Katowice (Poland) was attended by our partners from **University of Tartu** (Estonia).

LIFE ALCHEMIA project was presented in the “NORM management challenges and approaches” session.

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ACTIONS COMPLETED - DISSEMINATION

LIFE ALCHEMIA ON RADIO

Our partners from **Diputación de Almería**, Isabel Rodríguez, and José Luis Casas from **CIESOL**, were interviewed by Onda Cero radio in the “**Almería en la onda**” program, in the frame of the European Night of Researchers

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LIFE ALCHEMIA PUBLICATION ON OPEN ACCESS GOVERNMENT

LIFE ALCHEMIA has published an article in the October issue of the Open Access Government digital journal. Our partner from Tallin University of Technology, Anna Goi, has realized a communication in which the origin of the presence of natural radionuclides in drinking water, among others, is explained.

[READ MORE](#)

FIRST PROMOTIONAL VIDEO OF LIFE ALCHEMIA

The first promotional video of the project is already available in our Youtube channel. It shows a general vision of the project.

[WATCH VIDEO](#)



ACTIONS COMPLETED - DISSEMINATION

NETWORKING

Lines of action complementary to the theme “water” through LIFE projects are continuously being sought. Among the latest projects with which Life Alchemia has contacted and exchanged information are: **LIFE LIBERNITRATE**, **LIFE ECOGRANULAR WATER** or **LIFE MCUBO**. A news item will be published on the project website with more information about it.

LIFE ALCHEMIA IN PRESS MEDIA

Many communication media have informed about the last advances and actions carried out by the project’s partnership. **Some of the news** that have appeared not only in general press but also in press specialized in the water field are shown below:

La Luz Verde a las potabilizadoras de Alboloduy, Benizalón y Tahal

Diario de Almería PRO

DIPUTACIÓN

Luz verde a las potabilizadoras de Alboloduy, Benizalón y Tahal

REDACCIÓN
01 Septiembre, 2018 - 02:34h

La Diputación Provincial de Almería ha aprobado el expediente de contratación de la redacción de los tres proyectos de construcción de las plantas potabilizadoras piloto que se van a desarrollar en tres municipios de la provincia de Almería. Se trata de los primeros 229.500 euros, de los más de 800.000 euros de inversión que van a ser financiados por la provincia de Almería gracias a este proyecto en el que la Diputación cuenta como aliados con el centro tecnológico de Valladolid, como coordinador, y el Ciesol de la Universidad de Almería, la Universidad de Tartu (Estonia), la Talli Technology (Estonia) y Viimsi Vesi Ltd (empresa de aguas de Estonia).

Tras los trabajos de investigación, la burocracia y los trámites administrativos previos, ahora es el turno de dar a conocer los conocimientos adquiridos en los laboratorios y a través de los trabajos de campo. En concreto, el expediente de contratación aprobado por la Junta de Gobierno es el de la redacción de los proyectos que se van a ejecutar en Alboloduy, Tahal y Benizalón.

TalTechi teadlased vähendasid uude tehnoloogia abil joogivee radioaktiivsust

Ronald Liive
03.10.2018 kell 16:06

Jaga



Tallinna Tehnikaülikooli (TalTech) teadlased alustasid mullu oktoobris uurimistööd, mille tulemusena õnnestus neil vähendada põhjavee looduslikku radioaktiivsust.

TalTechist olid projektiga seotud teadlased Anna Gõij ja Juri Bolobajev, kes arendasid välja kaasaegse tehnoloogia joogivee puhastamiseks. Väljatöötatud lahendust hakatakse katsetama AS Viimsi Vesi veepuhastusjaama pilotseadmel.

ALMERIA 360
PERIODICO DIGITAL
ACTUALIDAD

Publicado en noviembre 30, 2018 Sin Comentarios

Una planta de tratamiento de aguas

PROVINCIA A través del proyecto Life-Alchemia

Tres plantas piloto garantizarán agua potable en Alboloduy, Tahal y Benizalón a partir de 2019

Las tres potabilizadoras, cuya ejecución ya ha sido adjudicada, van a tratar las aguas de formas más rentables, desde el punto de vista medioambiental, para garantizar el abastecimiento a la población de municipios que en la actualidad cuentan con plantas de ósmosis inversa. El proyecto se completa con una cuarta instalación en Estonia.

europapress / andalucía / almería

Las obras de las potabilizadoras de Alboloduy, Benizalón y Tahal (Almería) de 'LIFE Alchemia' comenzarán en enero



Publicado 30/11/2018 15:03:07

ALMERÍA, 30 Nov. (EUROPA PRESS) -

Las obras de instalación de las potabilizadoras de Alboloduy, Benizalón y Tahal que se construirán en el marco del proyecto 'LIFE Alchemia' comenzarán el próximo mes de enero, después de que la Diputación de Almería adjudicase la ejecución de las tres actuaciones.

NEXT ACTIONS

- ⇒ **CONSTRUCTION and START-UP** of the pilot plants in Tahal, Alboloduy and Benizalón (Almería).
- ⇒ **UPDATE** and expansion of the Spanish and European **DATABASES** of DWTPs that treat water with natural radioactivity.
- ⇒ Continue with the actions of **NETWORKING** with other projects from the LIFE Programmes (essentially) and H2020.
- ⇒ **EVENTS:**

NEEMO monitoring meeting.

Seventh international Conference on radiation in various fields of research

10th-14th June 2019, Herceg Novi (Montenegro) (<http://www.rad2019.rad-conference.org/welcome.php>)

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