

COMMUNICATION
ON PROGRESS
2019



**CEO
WATER
MANDATE**



STATEMENT OF CONTINUED SUPPORT FOR THE UN GLOBAL COMPACT'S

Period covered: 19th July 2019 to 18th July 2020

Málaga (Spain), 17/07/2020

To our workers, partners and clients:

I, Antonia Lorenzo, confirm that BIOAZUL will continue supporting the Ten Principles of the United Nations Global Compact and the initiatives of the CEO Water Mandate on the six elements focused on the sustainable management of water and the reduction of water stress.

Sincerely,



Antonia Lorenzo

CEO and main shareholder

BIOAZUL SL

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INTRODUCTION

Bioazul SL is a water engineering and consultancy SME focused on the development of eco-innovative and sustainable solutions for water management, including treatment, reuse and resource recovery.

We offer tailored industrial and urban wastewater treatment solutions based on technologies resulting from the work carried out by the company in research, development and innovation projects, aiming to integrate **sustainability** at an environmental, social and economic level, and to place our know-how at the service of clients to offer them the **most competitive solutions**.

One of the aspects that differentiates our level of competence is our extensive, well-proven capacity to design and adapt technology solutions to each client's specific requirements: **best solution for specific problems**.

At Bioazul, we seek to contribute to the achievement of the **United Nations Sustainable Development Goals**, focusing on SDG 6, guaranteeing clean water and sanitation for everybody and SDG 13 adopting measures to combat climate change and its effects.

We focus on water treatment and reuse as a way of reducing pressures on water resource, promoting circular economy in the use of water and enabling nutrient recovery from wastewater, which is an added value in a sector as important as agriculture, contributing to SDG 12 and SDG 2.

The efforts we make to achieve sustainable wastewater treatment management translates also in healthier life underwater, both in rivers and marine environments, SDG 14, and has the potential to help cities adapt to become more sustainable by reducing their impact on water masses, SDG 11.

Gender equality, SDG 5, is a very important goal for Bioazul and we try to achieve it in every aspect of our work, promoting women empowerment in R&D and advocating for women's representation in management and leadership positions within our networks.

Since Bioazul was created, we have worked building alliances and working in cooperation with entities of different nature and recognized prestige at international level, to achieve common goals, in line with SDG 17. Moreover, within our projects we promote the development and transfer of environmentally responsible technologies in developing countries. We identified that working in alliances is especially useful for innovation, since it fosters an extremely enriching exchange of knowledge, experiences and skills between professionals and relevant actors.



DESCRIPTION OF THE ACTIONS

As part of this goals, we are committed to contribute positively to sustainable water management aligning our actions to the CEO Water Mandate in its six commitment areas.

1. Direct Operations

Bioazul does not have a production facility, only one office and a warehouse. Therefore, there is a limitation of the kind of measures to be taken to reduce the water consumption of the company. In any case, the staff is aware about some specific measures to be taken to reduce water consumption for the cleaning activities and for flushing toilets, which are the two ways we consumed water.

Bioazul **raises awareness of water sustainability**, water and environment conservation through our activities as one of the main pillars of the company philosophy and culture. Bioazul provides audit services and technical solutions to with the aim of saving water and reducing pollution.

Bioazul participates in several **research and development projects of the EU Horizon 2020** in the area of sustainable water management, treatment and reuse, developing innovative technologies and approaches in line with Circular bioeconomy principles. These are of application by public administration when managing urban wastewater (such as www.richwater.eu, <https://fit4reuse.org/>), and for the private sector as well when managing industrial wastewaters (www.water2return.eu). In Annex I, there is a list of Bioazul's water related projects.

2. Supply Chain & Watershed Management

We actively promote the implementation of innovative technologies and approaches for the sustainable use of water resources, including the use of non-conventional sources such as the **reclaimed water**. This is very relevant at watershed level as the current management practices, overexploitation and/or the lack of wastewater treatment is affecting the ecological status of the surface waters.

With regards to water conservation measures to preserve and improve water quality at the watershed level, Bioazul works actively with all value chain actors such as irrigation communities and farmers, producers, public administration and civil society associations, in areas affected by water scarcity and more and more frequent droughts to implement the **use of reclaimed water as a strong measure for climate change adaptation and mitigation**.

Bioazul is working in a **open innovation Living Lab** focused on water, within the RichWater demonstration-type project and with the participation and commitment of multiple territorial agents, including water authorities, to co-develop technologies and decision-making tools that **enable the management of the water available** according to the offer, including reclaimed water to cover (totally or partially) the uncovered water demand. RichWater has been selected as a Living Lab as one of the 105 water oriented living lab research settings that met the Water Europe Living Labs assessment criteria, and included in the "[Atlas of the EU water oriented Living Labs](#)".

Therefore, Bioazul leads projects such as SuWaNu Europe, RichWater, Treat&Use, Suwanu, Axarquia sostenible to promote the improvement of demand, the reduction of consumption and efficiency in the use of the resource, including the use of alternative water sources such as reclaimed water in order to adapt the integral water cycle to climate change and taking into account all water users (industrial, urban, environmental and agricultural).

3. Collective Action

Bioazul is committed to the sustainable development and we strongly believe that the real transition to a more circular economy can only take place through the establishment of win-win situations, synergies among different sectors, working groups activities, and other alliances with key stakeholders from the whole value chain.

The active participation in national and international initiatives on water sustainability by Bioazul opens the possibility to work collectively from a bottom up approach. Also, the work we do in the different alliances we participate helps us broaden our perspective, enabling us to develop more effective solutions for a sustainable water management.

Some of the most important initiative we work on are described below:

- **UN Global Compact:** Bioazul is actively involved in the activities of UN Global Compact, and the Spanish Global Compact Network through the participation of national and international campaigns such as Gender equality Week and SME's Week. In this framework we selected and shared two good practices in relation to gender equality and SME's development respectively, in the COMparte platform (<https://compactlink.pactomundial.org/plataforma-buenas-practicas-COMparte-buenas-practicas>). Recently we joined the Target Gender Equality accelerator programme to work together with other companies to set and achieve ambitious goals for women empowerment in business and society (<https://www.unglobalcompact.org/take-action/target-gender-equality>).

- **Water Europe (<http://watereurope.eu/>):** Water Europe is the Water Supply and Sanitation Technology Platform. This platform was initiated by the European Commission in 2004 for Research and Technology Development in the water industry and was transformed into an independent legal entity under Belgian Law in 2007. Water Europe thrives to foster collaborative, innovative and integrated European Research and Technologies Development, to ensure the European Growth and Competitiveness of the Water Sector, to provide Global answers to Global Challenges for the next generations and to address the challenges of an integrated and sustainable management of water resources.

Bioazul became a member of the Water Platform in 2016, and since 2018 Antonia Lorenzo, Bioazul CEO, leads the Working Group on Water and Agrifood (<https://watereurope.eu/working-groups/#WATER-AND-AGRIFOOD>)

- **The Andalusian Network Against Climate Change (REDAC, <https://redac.es/>),** is a project promoted by HIDRALIA and managed by the Chair Hidralia and the University of Granada, consisting of the creation of an open and participatory space aimed at promoting social awareness about Climate Change. This Network acts as a permanent forum where all the member entities exchange their experiences, value the projects developed and share information on mitigation and adaptation, while establishing business, institutional and public-private alliances.

Bioazul is member since 2018. Currently, RichWater and Water2REturn have been selected as solutions for climate change adaptation related to water: <https://redac.es/mitigacion-y-adaptacion/>

- **EIP WATER (<https://www.eip-water.eu/organisations/bioazul-sl>):** The European Innovation Partnership on Water - EIP Water in short - is an initiative within the EU 2020 Innovation Union. EIP aims to speed up innovations that contribute to solving societal challenges, enhance Europe's competitiveness and contribute to job creation and economic growth. EIPs help to pool expertise and resources by bringing together public and private actors at EU, national and regional level, combining supply- and demand-side measures.

- **WIRE ACTION GROUP (<https://www.eip-water.eu/WIRE>):** WIRE is the Water & Irrigated agriculture Resilient Europe action group. WIRE connects and cooperates with the EIP on Agricultural Productivity and Sustainability, with a strong commitment to develop synergies where possible and

to draw on mutual benefits. WIRE will contribute to make use of innovation to promote a more sustainable water management and more effective return of investments in agriculture.

- **Water Action Hub** (<https://wateractionhub.org/>): The Water Action Hub is a global online collaboration and knowledge sharing platform for water sustainability, developed by the CEO Water Mandate. The Hub helps companies and other organizations address water risk and advance sustainable water management. The Hub aims to catalog and raise awareness of the vast network of water stewardship projects around the world. In doing so, it inspires action, helps share best practice and innovative ideas, and promotes collaboration among the many different organizations committed to addressing the world's many water challenges. Bioazul is member since 2019.
- **Smart City Cluster** (<https://smartcitycluster.org/>) is an alliance of Andalusian private companies and institutions that work together to make cities smarter, by being efficient, sustainable and comfortable. This is achieved through cooperation among these entities, thus creating jobs and wealth in urban areas by means of rising business competitiveness. Bioazul is member since 2016.
- **EIT Food** (<https://www.eitfood.eu/>) is a pan-European consortium that focuses on entrepreneurship and innovation in the food sector. The members of the EIT Food community are world-class players in the international food domain: over 50 partners from leading businesses, research centres and universities across 13 countries. EIT Food's vision is to put Europe at the centre of a global revolution in food innovation and production, and its value in society. EIT Food will engage consumers in the change process, improve nutrition and make the food system more resource-efficient, secure, transparent and trusted. Bioazul is Network partner of this consortium since 2019.
- **The Women's Empowerment Principles** (WEPs, <https://www.weps.org/>) are a set of Principles offering guidance to business on how to promote gender equality and women's empowerment in the workplace, marketplace and community. Established by UN Global Compact and UN Women, the WEPs are informed by international labour and human rights standards and grounded in the recognition that businesses have a stake in, and a responsibility for, gender equality and women's empowerment.

The Women's Empowerment Principles (WEPs) are a primary vehicle for corporate delivery on gender equality dimensions of the 2030 agenda and the United Nations Sustainable Development Goals. By joining the WEPs community, the CEO signals commitment to this agenda at the highest levels of the company and to work collaboratively in multi-stakeholder networks to foster business practices that empower women. These include equal pay for work of equal value, gender-responsive supply chain practices and zero tolerance against sexual harassment in the workplace. Bioazul is part of this community and contributes with its activities to gender equality. <https://www.weps.org/company/bioazul-sl>.

Bioazul works within these initiatives and our projects, has created a direct link with key actors at international, national, regional and local level, allowing us to address water sustainability with a common vision and very much focused on impacts achievement in the territory.

4. Public Policy

Bioazul is well positioned in several water related initiatives and specially involved in water reuse policy issues.

We collaborate as technical advisors together with policy makers, practitioners, academia and civil society organizations in the development of strategic plans such as:

- **Plan DSEAR** (National plan for Purification, Sanitation, Efficiency, Savings and Reuse) (https://www.miteco.gob.es/es/agua/temas/planificacion-hidrologica/pn_dsearmemoria_consultapublica_tcm30-481891.pdf) which is being

developed by the Ministry for Ecological Transition, State Secretariat for the Environment, General Directorate of Water.

- **Plan Regenera** (Andalusian Regional Action Plan for the Use of Reclaimed Water) which is being codeveloped by actors from the whole value chain through their participation in the SuWaNu Europe participatory workshops (<https://www.bioazul.com/en/suwanu-europe-workshops-in-andalusia-on-reclaimed-water/>). The Plan is being presented to public administration at regional level to be integrated and/or taking into account in the development of the Andalusian Pact for Water which is currently being developed.

As leader of the **Working Group on Water and AgriFood of the Water Europe platform**, we contribute to the development of white papers and position papers related to the Value of Water and to the promotion of water-related innovation and research in Europe and beyond.

At Bioazul, we perform a regulation monitoring in relation with the company business activities, including regulations and standards. In particular, we have followed in the last year the preparation, revision and approval of the **EU Regulation on minimum requirements for the re-use of wastewater** that was finally published the 25th of May 2020.

This monitoring allow us to anticipate the adaptation of ours solution to the legislative framework and be ready for its marketing.

Last but not least, Bioazul is registered in the Transparency Register of the European Commission (<https://ec.europa.eu/transparencyregister/public/homePage.do>) since March 2016 in order to be informed about all new policies, strategies, working documents of the EC and be able to participate more actively in the democratic life of the EU.

5. Community Engagement

We work closely with local and regional agents in different alliances to promote sustainable practices such as water reuse, nature-based solutions and the circular economy business model implementation.

Furthermore, BIOAZUL belongs to the **Malaga Nature-Based Solutions Cluster**, an association made up of businesses, professionals, authorities and researchers who share the knowledge and skills necessary to seek sustainable solutions to specific problems derived from the climate crisis. This was created in May 2019 with BIOAZUL as one of the signatories.

Bioazul is part of **“Axarquía Sostenible”**, an operating group created with the purpose of implementing an innovative system of water regeneration and fertigation in the Axarquía region. It was created as a result of the collaboration in the RichWater project, together with the CSIC-IHSM La Mayora research center, the Algarrobo Irrigation Community, the Association of municipalities of Axarquía, the Spanish Association of Tropicales, Axaragua and the Algarrobo City Council.

Bioazul has also collaborated in several projects with local associations, such as **“Guadalhorce Ecológico”**, with whom we collaborated in the TREAT&USE project, organizing awareness-raising actions regarding the efficient use of water for agricultural irrigation. Within this project we built and set up a pre-market prototype that combines the urban wastewater treatment through a membrane bioreactor (MBR) system, with the safe use of the effluent for irrigation and fertigation in agriculture.

6. Transparency

The information regarding our progress in the 6 commitment areas of the CEO water mandate is included in our annual Communication on Progress for UN Global Compact.

In addition, it will be published in the company official webpage.

ANNEX I- Water related projects

➤ Within EIT Food



Acronym, title and contract number	Call	Nº of partners	Starting date and duration	Project type	Budget (€)	EC contribution (€)	More info
INNOWISE- RIS Finding innovative solutions for water scarcity in Southern Europe	Cross KIC Scheme 2019	6	01/01/2020 (12 months)	Cross KIC RIS	700,000.00€	700,000.00€	BIOAZUL is partner

➤ Within ERASMUS+:



Acronym, title and contract number	Call	Nº of partners	Starting date and duration	Project type	Budget (€)	EC contribution (€)	More info
U-eco: Upskilling for more creative circular economy	Call 2019 Round 1 KA2 - Cooperation for innovation and the exchange of good practices KA204 - Strategic Partnerships for adult education	5	01/10/2019 (24 months)	Erasmus+	245,000.00€	245,000.00€	BIOAZUL is partner

➤ Within PRIMA Initiative:



Acronym, title and contract number	Call	Nº of partners	Starting date and duration	Project type	Budget (€)	EC contribution (€)	More info
FIT4REUSE: SaFe and sustainable soluTions FOR the integRatEd USE of non-conventional water resources in the Mediterranean agricultural sector. GA 813542	Call 2018 Section 1 Water]	9	01/07/2019 (36 months)	RIA - Research and Innovation Action	2,020,000.00€	2,020,000.00€	https://fit4reus.org/ BIOAZUL is partner



➤ Within H2020:

Acronym, title and contract number	Call	Nº of partners	Starting date and duration	Project type	Budget (€)	EC contribution (€)	More info
REMEDI: Trapping and Removal of X-ray Contrast Medium agents from water resource and stream Sediments- New Concepts in Trapping, Recycling and Management	H2020-MSCA-ITN-2020	3	48	MSCA-ITN-EID	1,348,543.44€	1,348,543.44€	BIOAZUL is partner organisation Under negotiation
EASYTRAIN: Eco-Innovative Aquaculture System Training for European Industrial Doctorates	H2020-MSCA-ITN-2020	6	48	MSCA-ITN-EID	1,528,149.24€	1,528,149.24€	BIOAZUL is partner organisation Under negotiation
RECYCLE: Removal and Mitigation of Pollution from the Use of Pesticides: Prevention, Recycling and Resource Management. 872607	H2020-MSCA-RISE-2019	9	48	MSCA-RISE	1,347,800.00€	1,347,800.00€	BIOAZUL is beneficiary
PAVITR: Potential and Validation of Sustainable Natural & Advance Technologies for Water & Wastewater Treatment, Monitoring and Safe Water Reuse in India GA 821410	H2020-SC5-2018-2019-2020 SC5-12-2018	25 (13 from India)	01/02/2019 (48 months)	RIA - Research and Innovation Action	5,446,073.00€	2,807,142.50€ (for EU partners)	www.pavitr.net/ BIOAZUL is partner
SuWaNu Europe Network for effective knowledge transfer on safe and economic wastewater reuse in agriculture in Europe GA 818088	H2020-RUR-2018-2020 RUR-15-2018-2019-2020	20	01/01/2019 (30 months)	CSA- Coordinati on and Support Action	1,999,926.25€	1,999,926.25€	https://suwanu-europe.eu/ BIOAZUL is the coordinator

AQUA-PUR™ Development and market penetration of an innovative water purification technology for industrial applications GA 815889	H2020-SMEInst-2018-2020-1 EIC-SMEInst-2018-2020 - SME instrument	1	01/06/2018 (6 months)	SME Instrument phase 1	71,429.00€	50,000.00€	BIOAZUL is the coordinator
Water2Return: Recovery and REcycling of nutrients TURning wasteWATER into added-value products for a circular economy GA 730398	H2020-CIRC-2016TwoStage CIRC-02-2016-2017	15	01/07/2017 (42 months)	IA - Innovation Action	7,129,322.50€	5,871,895.76€	www.water2return.eu BIOAZUL is the coordinator
CONNECTING Nature: COproductionN with NaturE for City Transitioning, Innovation and Governance GA 730222	H2020-SCC-NBS-2stage-2016 SCC-02-2016-2017	29	01/06/2017 (60 months)	IA - Innovation Action	12,002,568.37 €	11,394,282.49 €	www.connectingnature.eu BIOAZUL is partner
RichWater: Commercialization and market introduction of an innovative wastewater reuse technology in agriculture GA 691402	H2020-FTIPilot-2015-1 FTIPilot-1-2015	5	01/02/2016 (33 months)	IA - Innovation Action – FTI - Fast Track to innovation	2,117,836.55€	1,658,703.11€	www.richwater.eu BIOAZUL is the coordinator

➤ Within FP7:



Acronym, title and contract number	Call	Nº of partners	Starting date and duration	Project type	Budget (€)	EC contribution (€)	More info
ALGATEC II: Optimisation of the technological recycling solution for olive washing water GA315469	FP7-SME-2012 SME-2012-3	5	01/01/2013 (24 months)	CP - Collaborative project - Research for the benefit of the SMEs	1,421,480.00€	886,000.00€	www.algatec2.eu (out of order)

TREAT&USE: Safe and efficient treatment and reuse of wastewater in agricultural production schemes GA 311943	FP7-KBBE-2012-6 KBBE.2012.1.4-02	7	01/06/2012 (30 months)	CP-TP - Collaborative Project targeted to SMEs	1,336,990.64€	999,858.00€	www.treatanduse.eu (out of order)
ALGATEC: Biotechnological recycle of olive mills washing water by microalgae GA 232331	FP7-SME-2008-1 SME-1	10	15/04/2009 (28 months)	BSG-SME - Research for SMEs	1,431,871.15€	1,070,162.00€	www.algatec.net (out of order)
SuWaNu: Sustainable Water treatment and Nutrient reuse options GA 319998	FP7-REGIONS-2012-2013-1 REGIONS-2012-2013-1	22	01/07/2013 (30 months)	CSA-CA - Coordination (or networking) actions - Regions of Knowledge	1,612,177.99€	1,402,043.00€	www.suwanu.eu
ENVIGUARD: Development of a biosensor technology for environmental monitoring and disease prevention in aquaculture ensuring food safety GA 614057	FP7-OCEAN-2013 OCEAN 2013.1	19	01/12/2013 (60 months)	CP - Collaborative project	7,177,126.82€	5,523,461.00€	www.enviguard.net
NaWaTech: Natural Water Systems and Treatment Technologies to cope with Water Shortages in Urbanised Areas in India GA 308336	FP7-ENV-2012-one-stage ENV.2012.6.6-1	14 (13 from India)	01/07/2012 (42 months)	CP - Collaborative project	1,778,589.41€ (for EU partners; Indian partners contribution: ~728,962.44€)	1,445,824.14€ (for EU partners; Indian partners contribution: ~728,962.44€)	www.nawatech.net
WATERBIOTECH: Biotechnology for Africa's sustainable water supply GA 265972	FP7-AFRICA-2010 KBBE.2010.3.5-02	17	01/08/2011 (24 months)	CSA-CA - Coordination (or networking) actions	1,275,785.80€	999,532.73€	www.waterbiotech.eu
TURAS: Transitioning Urban Resilience and Sustainability GA 282834	FP7-ENV-2011 ENV.2011.2.1.5-1	28	01/10/2011 (60 months)	CP-IP - Large-scale integrating project	8,891,398.00€	6,814,038.00€	www.turas-cities.eu (out of order)

CLARA: Capacity-Linked water supply and sanitation improvement for Africa's peri-urban and Rural Areas GA 265676	FP7-AFRICA-2010 ENV.2010.3.1.1-3	15	01/03/2011 (36 months)	CP-FP-SICA CP - Cooperatio n actions devoted to internat. cooperatio n partner countries (SICA)	1,846,225.00€	1,360,969.00€	www.clara.boku.ac.at (out of order)
PHOTOMEM: Photocatalytic Membrane technology process for olive oil mills wastewater treatment GA 262470	FP7-SME-2010-1 SME-1 - Research for SMEs	8	01/12/2010 (24 months)	BSG-SME - Research for SMEs	1,215,075.00€	909,935.75€	-
SANBOX: Development of an innovative sanitation and wastewater treatment system for remote located tourist facilities GA 232274	FP7-SME-2008-1 SME-1 - Research for SMEs	11	01/04/2009 (24 months)	BSG-SME - Research for SMEs	1,644,532.00€	1,293,697.00€	www.sandbox.info

➤ Within FP6:



Acronym, title and contract number	Call	Nº of partners	Starting date and duration	Project type	Budget (€)	EC contribution (€)	More info
WAFLA: Integrated water resource management by the implementation of improved agro-forestry concepts in arid and semi-arid areas in Latin America GA INCO-2006-032443	FP6-2004- INCO-DEV-3 INCO-2004- A2.3	21	01/10/2006 (30 months)	CA - Coordinati on action	1,369,346.00€	1,369,346.00€	www.wafla.com (out of order)
PROMEMBRANE: Promotion and focussing of current research activities of membrane technology in water treatment in the Mediterranean region GA INCO-2006-CT-31773	FP6-2002- INCO- MPC/SSA-2 INCO-2002- B1.1 INCO-2002- B1.3	7	15/08/2006 (24 months)	SSA - Specific Support Action	249,885.00€	249,885.00€	www.promembrane.info (out of order)

NETSSAF: Network for the development of sustainable approaches for large scale implementation of sanitation in Africa GA INCO-2006-CT-037099	FP6-SUSTDEV SUSTDEV-2005-3.II.3.7	20	01/06/2006 (30 months)	CA - Coordinati on action	1,541,800.20€	1,541,800.20€	www.netssaf.net (out of order)
PURATREAT: New energy efficient approach to the operation of membrane bioreactors for decentralised wastewater treatment GA INCO-2005-CT-015449	FP6-2003- INCO-MPC-2 INCO-2003- B1.3	9	01/01/2006 (42 months)	STREP - Specific targeted research project	1,138,356.00€	899,986.00€	www.puratreat.com (out of order)
WACOSYS: Monitoring and control system for wastewater irrigated energy plantations GA COOP-CT-2004-512877	FP6-2004- SME-COOP SME - Horizontal research activities involving SMEs	9	01/10/2004 (27 months)	Cooperativ e - SMEs- Co- operative research contracts	931,032.00€	571,490.00€	www.wacosys.info (out of order)
IWAPIL: Innovative wastewater treatment applications for isolated locations GA COOP-CT-2004-508144	FP6-2002- SME-1 SME-1	9	01/05/2004 (24 months)	Cooperativ e Research	855,244.00€	509,966.00€	www.iwapil.com (out of order)

➤ Within EACI:



Acronym, title and contract number	Call	Nº of partners	Starting date and duration	Project type	Budget (€)	EC contribution (€)	More info
WASTERED: Waste reduction and process optimisation in the European meat and dairy industry GA ECO/08/239048/ SI2.535244	CIP-Eco- Innovation- 2008	7	18/06/2009 (27 months)	CIP- Ecoinnovat ion	848,446.00€	432,707.46€	www.wastere.d.eu

➤ At national level:

- Application of innovative technology for the production of vegetables indoors with a vertical system in a sustainable way in a smart building. SMART GREEN CUBE (September 2018 - March 2019).



- Development and optimisation of a surplus sludge reducer, LODOred^{100k}.
- Optimisation of mobile and compact Membrane Bioreactors for wastewater treatment in remote areas.
- Optimisation of an innovative sequencing batch reactor (SBR) for the treatment of typical wastewater from South Europe.

