



# TOWARDS A MEDITERRANEAN WEFE NEXUS COMMUNITY OF PRACTICE

## D1.1 Library of practices

May 2023



The PRIMA programme is an Art. 185 initiative supported and founded under Horizon 2020, the European Union's Framework Programme for Research and Innovation. This project is part of the PRIMA Programme and it received funds under Grant Agreement number: [2241] [WEFE4MED] [Call 2022 Section 1 Nexus Management Water-Energy-Food-Ecosystems (CSA)]

<b>Project acronym</b>	<b>WEFE4MED</b>
<b>Project title</b>	Towards a Mediterranean WEFE Nexus Community of Practice
<b>Project number</b>	Grant Agreement number: [2241] [WEFE4MED] [Call 2022 Section 1 Nexus Management Water-Energy-FoodEcosystems (CSA)]
<b>Work package</b>	WP1 – Defination
<b>Deliverable Lead</b>	ECITD
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<b>Review</b>	CYI
<b>Dissemination level</b>	Confidential
<b>Contractual delivery date</b>	26/05/2023
<b>Actual delivery date</b>	26/05/2023
<b>Version</b>	<b>V1.1</b>

### Document History

<b>Version</b>	<b>Date</b>	<b>Comment</b>
v1.0	25/05/2023	First version prepared by ECITD
v2.1		

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## Executive Summary

This work is an output of WP1 of the WEFE4MED project. WP1 aims to identify demonstrators and map stakeholders to ensure regional coverage of the CoP with a critical mass of actors, and to support analyzing the needs of demonstrators and stakeholders. Hence this WP's overall aim is to start mapping practices to guide WP3 and contribute to the overall goal of the project.

Task 1.1 aimed to identify additional **demonstrators** not listed in this proposal, and approach all demonstrators to collect best practice information according to a common template, to enable comparisons, replication, upscaling and advocacy. A template was designed for collecting the required information and an online submission system was used, including an upload field and URLs for photos, short videos and other materials.

The Task 1.2 aimed to map **stakeholders** within the CoPs, such as scientists, networks, communities, and investors, to identify agents of change and ensure regional coverage of the NCoP with a critical mass of actors. This would help in adjusting the design of the NCoP to meet stakeholder needs and analyze the respective roles of different stakeholders in developing WEFE governance models and materials. The approach and methods employed multivariate analysis and quantitative techniques, such as bibliometric analysis, network analysis, and social network analysis (SNA), to explore patterns and aid in mapping.

The output of Task 1.1 and Task 1.2 resulted in a comprehensive database formed under task 1.3, including demonstrators, and a list of scientists, institutions, and collaboration networks to feed into the library of practices (Deliverable 1.1). This comprehensive database includes all relevant details and contact information, to facilitate collaboration and knowledge exchange within the NCoP. More specifically, it contains:

- **Active researchers in WEFE domains**, including a list of 508 researchers with their email addresses, affiliation, country, number of WEFE nexus publications, and a link for each researcher's Scopus profile
- **WEFE Nexus case studies and publications**: we have here almost 460 publications and those were mapped out to the SDG relevance, institutions and countries involved, year of publication, numbers for each of researchers, countries and institutions, type of publication (if it is conference proceeding, article, report, etc) and we did tag each publication (cluster tagging level and topic tagging level), DOI of each, among other additional parameters
- **A list of active institutions**, including their type (public/private/academic etc), country and number of WEFE nexus publications
- **A list of startups and SMEs in WEFE domains** with description, year of establishment, contact information and social media links.
- **A list of practices** including a comprehensive list of 7 practices up to the time of this deliverable, as output of task 1.1

Information was meticulously verified for consistency and quality and is presented in a structured Excel spreadsheet for easy importing and easy retrieval of information.

## Approach and methodology

### Technical approach (T1.1):

- 1.1.1 Development of a common template for demonstrators to collect best practice information, to enable comparisons, replication, upscaling and advocacy.
- 1.1.2 Development of online forms (available here <https://www.ecitd.org/wefe4med> )
- 1.1.3 Inviting selected demonstrators and compiling data
- 1.1.4 Maintain the form live beyond this deliverable to maintain a flow of information until the platform is ready.

### Technical approach (T1.2):

- 1.2.1 Identifying WEF nexus keywords and retrieving relevant South Mediterranean publications while setting the timeframe to the past 7-10 years.
- 1.2.2 Performing bibliometric analysis to identify relevant actors from the South Mediterranean region by analysing the generated network (e.g., co-authorship and collaboration networks).
- 1.2.3 Grouping publications, case studies and reports and identification of SDG's Relevance
- 1.2.4 Identifying startups and companies (established in the past 7-10 years and operating in WEFE domains)
- 1.2.5 Tabulating and summarising findings to aid in drawing insights into active scientists in WEF-Nexus in past years, active institutions, existing collaborations/networks, identification of critical mass or existing active research groups and other relevant metrics with all fields ranked with impact quantitative metrics such as citations count, views count, patents, etc
- 1.2.6 Alignment of outputs to fit with WP3

**Output:** A compiled Database with tabulated findings including a list of scientists, institutions, startups and demonstrators serving as the initial library of the project (Deliverable 1.1). Continuous feeding and refinement are planned beyond this deliverable. Main output is presented in Annex A: Excel file.

## Templates used

### I. Cases and publications Mapping

Title of publication

Type of publication

Review  Article  Conference proceeding  Editorial  Notes  Chapter  Strategy

Year

South Mediterranean Institutions involved

Collaborating Institutions involved

Private sector involved

Researcher's name(s) and linked affiliation

South Mediterranean Countries involved

Collaborating Countries involved

WEF topic cluster name / tag

WEF thematic area

Relevance to SDGs

DOI and Source title

Quantitative metrics

- Citations count
- Views count
- Patent/citation
- Number of researchers
- Number of countries
- Number of institutions

## D1.1 Library of practices



URL

### II. Active researchers and scientists

Researcher's name(s) and linked affiliation

Country

Number of WEFE nexus publications

Email address

Scopus profile

### III. Companies and startups

Name of the company

Description

Year of establishment

Founder name

Industry group

website

Contacts information

Social media links

## IV. Template for demonstrators

Name \*



First Name

Last Name

Enter a value for this field.

Email \*

Organization \*

Title/Name of the Demonstration/practice \*

Country \*

- |                                   |                                  |                                     |
|-----------------------------------|----------------------------------|-------------------------------------|
| <input type="checkbox"/> Algeria  | <input type="checkbox"/> Croatia | <input type="checkbox"/> Cyprus     |
| <input type="checkbox"/> Egypt    | <input type="checkbox"/> France  | <input type="checkbox"/> Germany    |
| <input type="checkbox"/> Greece   | <input type="checkbox"/> Israel  | <input type="checkbox"/> Italy      |
| <input type="checkbox"/> Jordan   | <input type="checkbox"/> Lebanon | <input type="checkbox"/> Luxembourg |
| <input type="checkbox"/> Malta    | <input type="checkbox"/> Morocco | <input type="checkbox"/> Portugal   |
| <input type="checkbox"/> Slovenia | <input type="checkbox"/> Spain   | <input type="checkbox"/> Tunisia    |
| <input type="checkbox"/> Turkey   |                                  |                                     |

Country where the demo is located

Location (City) \*

WEFE Nexus Dimensions \*

- |                                |                                     |
|--------------------------------|-------------------------------------|
| <input type="checkbox"/> Water | <input type="checkbox"/> Energy     |
| <input type="checkbox"/> Food  | <input type="checkbox"/> Ecosystems |

Keywords \*

Website/ webpage if any

Recorded video link / YouTube link if any

Institution(s) involved in the development of the practice \*

Acknowledgement of funding

Linked to funded project ( check for Yes, leave unchecked if No)

Funding/finance received \*



## D1.1 Library of practices



### Descriptive summary \*

Short description of the demonstration/practice (up to 500 characters)

0/500 characters

### Background \*

What are the problems that the demonstrator is aiming to address (up to 500 characters)

### Aims and Goals \*

Up to 500 Characters

### Actions taken to achieve objectives \*

Up to 500 Characters

### Main Achievement to date (related outcomes) \*

Up to 1000 Characters

### Image Upload

Choose File  

### Starting Date \*

dd-MMM-yyyy

### End Date (if any)

dd-MMM-yyyy

### Sustainability Assessment

---

Please rate the sustainability with 1 indicating low sustainability and 5 high sustainability; 1 (Low), 2 (medium-low), 3 (medium), 4 (medium-high), 5 (high)

#### Environmental Sustainability assessment \*



Is the initiative efficient in terms of its use of energy and resources? Does it contribute to climate mitigation and adaptation?

#### Social Sustainability \*



Does it consider gender and social inclusion? Have the social impact been considered? Does it bring social benefits?

#### Financial Sustainability \*



Will the initiative be financially sustainable in the long run? Has the initiative manage to leverage funds beyond the initial sources?

#### Technological Sustainability \*



Can the infrastructure and technologies introduced by the initiative be maintained? Can these be scaled and replicated?

#### Institutional Sustainability \*



Does the initiative work in collaboration with established institutions? Does it foster a partnership approach?

### Alignment with Sustainable Development Goals

---

Please select all the SDGs related to your demonstrator \*

(1) No Poverty

(2) Zero Hunger

(3) Good Health and Well-being

(4) Quality Education

(5) Gender Equality

(6) Clean Water and Sanitation

(7) Affordable and Clean Energy

(8) Decent Work and Economic Growth

(9) Industry, Innovation and Infrastructure

(10) Reduced Inequalities

(11) Sustainable Cities and Communities

(12) Responsible Consumption and Production

(13) Climate Action

(14) Life Below Water

(15) Life on Land

(16) Peace Justice and Strong Institutions

(17) Partnerships for the Goals

Multiple selection is possible

## Output

### 1.1 Case studies and publications

#### Example

**TITLE:** Engineering software tools for capturing the complexity of the water-energy-food nexus: Lessons from the MAGIC project

**PRIMA Countries** involved: Spain and Italy

**Institutions** involved: Università degli Studi di Napoli Federico II | Instituto Tecnológico de Canarias, S.A.

**Researchers:** Staiano, M. and Nebot Medina, R.

**Year:** 2019

**Description:** The MAGIC project (Moving toward Adaptive Governance In Complexity, funded by EU-Horizon 2020 programme) features a perspective rooted in bioeconomics directed at the accounting of technical and environmental resources required to ensure the living standards of EU societies. It aims at tackling in a suitable way the nexus of energy, food and water to assess sustainability as a complex predicate. A software toolkit has to be developed as a key enabling technology to inform and steer the processes toward forthcoming UE policies; the toolkit is part of a Nexus Information System, aimed at supplying quantitative views of novel narratives about the various themes related to the nexus of water, energy and food, along with labour and land use, as well as opportunities and scenarios for innovations, by means of a rigorous and transparent approach to official data, domain knowledge and agreed models. The system is envisioned in a Nexus information space, where analysts, policymakers and stakeholders with different backgrounds, interests and perspectives could interact and iterate on suitable datasets and semantically relevant models toward the decision-making process of future EU common policies. The challenges to be faced by NIS developers are twofold: to model the socio-ecological system (human society integrated in the environment) that behaves as a self-reproducing adaptive system, and to capture the sets of relationships expressing the nexus, a complex predicament in itself, which are relevant for the actors in the Nexus information space.

**SDG:** SDG 17

**Topic Cluster:** Nexus, Foresight, Scenarios

**Topic name:** Decision Making, Foresight, Alternative Futures

**Source:** IMCIC 2019 - 10th International Multi-Conference on Complexity, Informatics and Cybernetics, Proceedings

**Type:** Conference proceeding

**DOI:**

**Number of researchers:** 2

**Number of institutions:** 2

- The above is an example, and the full list is available below



Topic	Year	Journal	Author(s)
Role of trade openness, export diversification, and renewable electricity output in realizing carbon neutrality/dream of China	2021	Journal of Environment	Huohuo University Zhejiang University Shenzhen University Lu, M., Ahmad, M., Fareed, Z., Hasan, Z.
Investigating the news about hydroelectricity energy, renewable energy, non-renewable energy consumption on output: evidence from 7 countries.	2020	Environmental Science	Cyprus International University   Istanbul Gelim University   Soyoglu, B.A., Ben, M.A., Bekun, F.V.
The financial development, economic growth, and environmental quality nexus: Evidence from the EU countries	2021	Environmental Science	University of Niitra   Miskolc University   Kerecskői, M., Kovács, Z., Varga, E., Varga, M.
Board attributes, CSR engagement, and corporate performance: What is the news in the energy sector?	2020	Energy Policy	China   Turkey   Pakistan   France   Beijing Institute of Technology Shanghai Institute of Technology Alkan, A., Kılıç, M. I.
The impact of tourism on CO2 emissions in Turkey	2020	Current Issues in Tourism	Karadeniz Technical University   Eryol, G., Uizer, U.
Banking development and economic growth: Evidence from a panel of Middle Eastern countries	2021	Journal of Economic Surveys	Taiwan   Australia   Istanbul Gelim University   European University of Lefke Eastern Mediterranean University   Göngör, H., Bekun, F.V.
Economic performance of India amidst high CO2 emissions	2020	Sustainable Production	Taiwan   Hong Kong   Turkey   Cyprus International University   China Medical University Taipei Aeduo, T.S., Jaworski, A.J., Olanipekun, O.
Sustainability of energy-induced growth news in Brazil: Do carbon emissions and urbanization matter?	2021	Environmental Science	Croatia   Jordan   Turkey   Canada   Ontario Tech University   Jordan University Kılıç, S., Koşar, G., Düce, N., Roser, M.
Advancing a sustainable development of energy, water and environment systems	2020	Energy Conversion and Management	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Dynamic growth and energy consumption nexus in emerging economies: new evidence in BRICS countries	2020	Energy Economics	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Reversing the economic growth and electricity consumption nexus in Pakistan	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The news between energy consumption and GDP in the U.S.: Evidence from wavelet analysis	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Toward a sustainable environment: News between CO2 emissions, resource rent, renewable and non-renewable energy	2021	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Evaluating green technology strategies for the sustainable development of solar power projects: Evidence from Pakistan	2021	Sustainable Production	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The interplay between energy consumption, economic growth and CO2 emissions news in the GCC countries: A comparative analysis through wavelet analysis	2021	Renewable and Sustainable Energy	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
A small driver or an interdependent variable? Climate change, water and security in the Middle East	2020	Renewable and Sustainable Energy	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The relationship amongst energy consumption, foreign direct investment and output in developed and developing countries	2021	Renewable and Sustainable Energy	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Renewable and non-renewable energy growth news: A panel data application for the selected Sub-Saharan African countries	2020	Renewable and Sustainable Energy	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Triangle news between foreign direct investment, international tourism, and energy consumption in the Chinese economy: accounting for environmental Turkey	2021	Renewable and Sustainable Energy	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Exploring the news between non-renewable and renewable energy consumptions and economic development: Evidence from panel estimations	2020	Renewable and Sustainable Energy	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The news between energy price and Russia's real exchange rate: Better pathway unconditional vs conditional analysis	2020	Energy Economics	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Toward a sustainable environment: News between CO2 emissions, resource rent, renewable and non-renewable energy	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Environmental implication of offshore economic activities in Indonesia: A dual analysis of consumption and causality	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Research frontiers in sustainable development of energy, water and environment systems in a time of climate crisis	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Production-based or consumption-based approaches to the energy-growth-environment nexus: Evidence from Asian countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Electricity consumption and economic growth in Turkey: Contraction, linear and non-linear granger causality	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Water-energy-food nexus in a transboundary context: The Euphrates-Tigris river basin as a case study	2020	Water International	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The causal nexus between carbon dioxide emissions and agricultural ecosystem—an econometric approach	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Energy consumption and economic growth in China: A reconciliation	2020	Energy Policy	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Quantifying and evaluating the impacts of cooperation in transboundary river basins on the Water-Energy-Food Nexus: The Blue Nile Basin	2020	Water Resources Research	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Revisiting the relationship between energy consumption, economic growth and CO2 emissions: Fresh evidence from financial development for China	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Integrating analysis of energy consumption, environmental sustainability, economic growth: Case study of MENA countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
China carbon neutrality target, economic growth, and environmental quality: Evidence from China	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
A zero building application and its role in energy-aware local energy strategies for sustainability	2020	Energy Conversion and Management	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Causing electricity consumption and economic growth in Turkey: An ARDL bounds testing approach	2020	Energy Conversion and Management	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Toward a greener water use: An analysis of the nexus between water consumption, economic growth and CO2 emissions	2020	Water Resources Research	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Renewable energy, environmental growth, and economic growth: Evidence from 26 European countries	2020	Energy Conversion and Management	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Toward creating an environment of cooperation between water, energy, and food stakeholders in San Antonio	2020	Water Resources Research	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Trade approach to the energy-growth-environment nexus: Evidence from selected countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Refining the energy-growth nexus: Proposing an index of environmental welfare for Sub-Saharan Africa	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The news of environmental sustainability and agronomic performance of Sub-Saharan African countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Looking for asymmetric and nonlinearities: The news between renewable energy and environmental degradation in the Northwestern provinces of China	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The role of carbon dioxide emissions, GDP, industrialization, financial development, and population: a causal nexus in Sri Lanka: With a subsequent PVAR analysis	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Business cycle movements between renewable consumption and economic production: A continuous wavelet coherence approach	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Sustainable resource optimization under water-energy-food-carbon nexus	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Nuclear energy economic growth news (NCEG) analysis: A panel data analysis	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Renewable energy news (range revisited): Evidence from selected countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The news between water-energy, tourism development, energy consumption, and CO2 emissions in Mediterranean countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Toward sustainable water food: Energy an optimization approach	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Motoring the growth, economic growth, CO2 emissions and real income: empirical evidence from South Africa	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The impact of tourism arrivals, tourism receipts and renewable energy consumption on quality of life: A panel study of Southern African region	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Environmental pollution, energy research and development: An environmental Kuznets Curve model through quartile simulation approach	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Causal interactions between renewable consumption and economic production: Fresh evidence from selected countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Natural gas consumption and economic growth news for top 10 natural Gas-consuming countries: A granger causality analysis in the frequency domain	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Agricultural development and CO2 emissions news in Saudi Arabia	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The wind energy greenhouse gas nexus: The wavelet partial wavelet coherence model approach	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Multi-dimensional Relationships between Economic Growth, Climate Change and Sustainable Development: Techno-economic Analysis	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Electricity consumption and economic growth news in Zimbabwe revisited: Fresh evidence from Maki cointegration	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The roles of economic growth and health expenditure on CO2 emissions in selected Asian countries: a quantile regression model approach	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Financial development and energy consumption nexus in emerging economies	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Pathway to environmental sustainability: News between economic growth, energy consumption, CO2 emission, oil rent and total natural resources	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Energy-growth nexus: The environmental Kuznets Curve model through quartile simulation approach	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Integration of energy and environmental economic growth consequences: Is there any difference across transition economies?	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Exploring links between FDI inflows, energy consumption, and economic growth: Further evidence from MENA countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Panel Data Analysis in the Energy-Growth Nexus (EGN)	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Energy consumption and economic growth in Algeria: Cointegration and causality analysis	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Carbon dioxide energy, electricity consumption, industrialization, and economic growth news: The Beijing case	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Hydrogen economy model for near-zero carbon cities with energy transition and energy water nexus	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Can implementation of the Water-Energy-Food Nexus support economic growth in the Mediterranean region? The current status and the way forward	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Dose data and dynamic relationships between economic growth and energy consumption news in OECD countries?	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Water-energy-food nexus: a platform for implementing the Sustainable Development Goals	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The moderating effect of institutional quality on the financial development and environmental quality nexus	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Refracturing in natural gas consumption per capita transition? Evidence from time series and panel unit root tests	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Doe globalization affect the green economy and environment? The relationship between globalization, energy consumption, and economic growth	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Does electricity consumption and globalization increase pollutant emissions? Implications for environmental sustainability target for China	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The news between energy consumption and financial development with asymmetric causality test: New evidence from newly industrialized countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Sustaining Water Resources: Environmental and Economic	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
News between willingness to pay for renewable energy source: evidence from Turkey	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Developing socio-technical innovation (STTI) solutions for addressing resource news hotspots	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Factual energy consumption by sector in the U.S.: New evidence from wavelet based approach	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Investing on the trade energy consumption news in OECD countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Electricity consumption, economic growth, urbanization and trade news: empirical evidence from Iceland	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Cointegration and renewable energy news in developing countries: an overarching analysis of hydrogen production and electric vehicles integrality in (China, Turkey, Cameroon)	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Identified renewable consumption growth news: A continuous wavelet approach through disaggregated data	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Two versions of the Index of Sustainable Economic Welfare (ISEW) in the energy-growth nexus for selected Asian countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Environmental Impacts of Contrasted Groundwater Pumping Systems Assessed by Life Cycle Assessment Methodology: Contribution to the Water-Energy-Tourism	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Toward a sustainable environment: News between consumption based carbon emissions, economic growth, renewable energy and technological innovation in the United Kingdom	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Feasibility and environmental impact of hydrogen production and storage: A techno-economic model for a small-scale power generation system: An empirical analysis	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Renewable energy and air sustainable development news in selected OECD countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
A new approach for the MENA region: from concept to knowledge to action	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Does higher education system moderate energy news? Evidence from a small island integrated approach to characterize the interaction between casual model, geomorphological setting and human interventions on the Moroccan	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
MODELS IN THE NORTH-EASTERN MEDITERRANEAN REGION: Evidence from the MENA region	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
20,000 years of societal vulnerability and adaptation to climate change in southwest Asia	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The news between electricity consumption and economic growth: New insights from meta-analysis	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Rapid assessment of the water-energy-climate nexus in the energy-growth nexus for selected Asian countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Causality news of renewable energy consumption and social development: Evidence from high-income countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
System Dynamics Model for Crop and Water Nexus	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
A Review to the Energy-History, History, Development, and New Challenges	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Renewable energy production and sustainable economic growth: A globalization parameter?	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Renewable energy market: liquidity and depth for energy and gains	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Cointegration and causality analysis of the energy-growth nexus in the Middle East region	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
A wavelet coherence analysis: nexus between urbanization and environmental sustainability	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The Role of Institutions in the Renewable Energy-Growth Nexus in the Mediterranean Region: A Panel Cointegration Approach	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
The nexus between renewable energy consumption and economic growth in the MENA Region	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Bridging Science and Policy in an Uncertain World: A Review of the Emerging Policy Making	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Biological diversity of different natural species of a novel greenhouse combined with solar walls	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Analytical and yield under different irrigation scenarios in orchard/Avocado landscape: A meta-analysis	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Using machine learning for natural gas consumption in the energy-growth nexus for selected Asian countries	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
Exploring the role of conventional energy consumption on environmental quality in Brazil: Evidence from cointegration and conditional causality	2020	Environmental Science	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.
A Nexus between Theory and Experiment: Non-Equilibrium Quantum Mechanical Computational Methodology Applied to Cucurbit[6]ane Binding in Palladium	2020	Chemistry	Taiwan   Saudi Arabia   Eastern Mediterranean University   Karakurt, M., Savaş, H., Yılmaz, H.





Year	Title	Author(s)	Journal	Year	Title	Author(s)	Journal	Year	Title	Author(s)	Journal																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2019	New insight into the finance energy. Disaggregated evidence from Turkey banks	Turkey	Reyhaneh Naci Bektaş Velinur Ural / Afyon Kocatepe University Toprak, M / Altay, B.	2019	10.3390/ijerph160710876	International Journal of Environmental Research and Public Health	2	2	-	-	International Journal																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2019	Water energy nexus: A dynamic computable general equilibrium model	Turkey	Ali Karim, M / El Ghay, A	2019	10.3390/ijerph160710876	International Journal of Environmental Research and Public Health	2	4	5007	5008	Electricity, Energy, Econ Consumer																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2019	Regime dependent causal relationship between energy consumption and GDP growth: evidence from OECD countries	India   United States   Turkey   Fiji	Navahar State University / Atılım University / Ankara Başkent / İzmir / İstanbul / İzmir / Denizli, Z / Oma	2019	10.1080/03681070.2019.1640000	Energy Economics	2	5	5008	5009	Applied Economics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2019	The world energy and global sustainable development	Australia   Turkey   Lebanon	Minerals Higher Education Institute / İstanbul Bilgi University / Writtemann, V / Jode, E / Mwanuzi, D	2019	10.3390/ijerph160710876	International Journal of Environmental Research and Public Health	2	2	5007	5008	SDG 13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2019	A multi-actor assessment of electricity supply options in Lebanon	Lebanon   United Kingdom   United States	Harvard University / Imperial College London / Yale University / UF Bahia, A. / Mattioni, M / Cavallari, L	2019	10.1016/j.ijep.2019.101323	International Journal of Energy Production and Economics	7	4	5006	5007	Electricity, Energy, Water Footprint																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2019	Coupling global electricity and food production	Algeria   Poland   Algeria   A. Minar and Energy Economy Research Institute of the Polish Academy of Sciences, J. / Tomaszewska, B. / Ghaff	2019	10.1016/j.ijep.2019.101323	International Journal of Energy Production and Economics	7	8	5006	5007	5008	5009	5010	5011	5012	5013	5014	5015	5016	5017	5018	5019	5020	5021	5022	5023	5024	5025	5026	5027	5028	5029	5030	5031	5032	5033	5034	5035	5036	5037	5038	5039	5040	5041	5042	5043	5044	5045	5046	5047	5048	5049	5050	5051	5052	5053	5054	5055	5056	5057	5058	5059	5060	5061	5062	5063	5064	5065	5066	5067	5068	5069	5070	5071	5072	5073	5074	5075	5076	5077	5078	5079	5080	5081	5082	5083	5084	5085	5086	5087	5088	5089	5090	5091	5092	5093	5094	5095	5096	5097	5098	5099	5100	5101	5102	5103	5104	5105	5106	5107	5108	5109	5110	5111	5112	5113	5114	5115	5116	5117	5118	5119	5120	5121	5122	5123	5124	5125	5126	5127	5128	5129	5130	5131	5132	5133	5134	5135	5136	5137	5138	5139	5140	5141	5142	5143	5144	5145	5146	5147	5148	5149	5150	5151	5152	5153	5154	5155	5156	5157	5158	5159	5160	5161	5162	5163	5164	5165	5166	5167	5168	5169	5170	5171	5172	5173	5174	5175	5176	5177	5178	5179	5180	5181	5182	5183	5184	5185	5186	5187	5188	5189	5190	5191	5192	5193	5194	5195	5196	5197	5198	5199	5200	5201	5202	5203	5204	5205	5206	5207	5208	5209	5210	5211	5212	5213	5214	5215	5216	5217	5218	5219	5220	5221	5222	5223	5224	5225	5226	5227	5228	5229	5230	5231	5232	5233	5234	5235	5236	5237	5238	5239	5240	5241	5242	5243	5244	5245	5246	5247	5248	5249	5250	5251	5252	5253	5254	5255	5256	5257	5258	5259	5260	5261	5262	5263	5264	5265	5266	5267	5268	5269	5270	5271	5272	5273	5274	5275	5276	5277	5278	5279	5280	5281	5282	5283	5284	5285	5286	5287	5288	5289	5290	5291	5292	5293	5294	5295	5296	5297	5298	5299	5300	5301	5302	5303	5304	5305	5306	5307	5308	5309	5310	5311	5312	5313	5314	5315	5316	5317	5318	5319	5320	5321	5322	5323	5324	5325	5326	5327	5328	5329	5330	5331	5332	5333	5334	5335	5336	5337	5338	5339	5340	5341	5342	5343	5344	5345	5346	5347	5348	5349	5350	5351	5352	5353	5354	5355	5356	5357	5358	5359	5360	5361	5362	5363	5364	5365	5366	5367	5368	5369	5370	5371	5372	5373	5374	5375	5376	5377	5378	5379	5380	5381	5382	5383	5384	5385	5386	5387	5388	5389	5390	5391	5392	5393	5394	5395	5396	5397	5398	5399	5400	5401	5402	5403	5404	5405	5406	5407	5408	5409	5410	5411	5412	5413	5414	5415	5416	5417	5418	5419	5420	5421	5422	5423	5424	5425	5426	5427	5428	5429	5430	5431	5432	5433	5434	5435	5436	5437	5438	5439	5440	5441	5442	5443	5444	5445	5446	5447	5448	5449	5450	5451	5452	5453	5454	5455	5456	5457	5458	5459	5460	5461	5462	5463	5464	5465	5466	5467	5468	5469	5470	5471	5472	5473	5474	5475	5476	5477	5478	5479	5480	5481	5482	5483	5484	5485	5486	5487	5488	5489	5490	5491	5492	5493	5494	5495	5496	5497	5498	5499	5500	5501	5502	5503	5504	5505	5506	5507	5508	5509	5510	5511	5512	5513	5514	5515	5516	5517	5518	5519	5520	5521	5522	5523	5524	5525	5526	5527	5528	5529	5530	5531	5532	5533	5534	5535	5536	5537	5538	5539	5540	5541	5542	5543	5544	5545	5546	5547	5548	5549	5550	5551	5552	5553	5554	5555	5556	5557	5558	5559	5560	5561	5562	5563	5564	5565	5566	5567	5568	5569	5570	5571	5572	5573	5574	5575	5576	5577	5578	5579	5580	5581	5582	5583	5584	5585	5586	5587	5588	5589	5590	5591	5592	5593	5594	5595	5596	5597	5598	5599	5600	5601	5602	5603	5604	5605	5606	5607	5608	5609	5610	5611	5612	5613	5614	5615	5616	5617	5618	5619	5620	5621	5622	5623	5624	5625	5626	5627	5628	5629	5630	5631	5632	5633	5634	5635	5636	5637	5638	5639	5640	5641	5642	5643	5644	5645	5646	5647	5648	5649	5650	5651	5652	5653	5654	5655	5656	5657	5658	5659	5660	5661	5662	5663	5664	5665	5666	5667	5668	5669	5670	5671	5672	5673	5674	5675	5676	5677	5678	5679	5680	5681	5682	5683	5684	5685	5686	5687	5688	5689	5690	5691	5692	5693	5694	5695	5696	5697	5698	5699	5700	5701	5702	5703	5704	5705	5706	5707	5708	5709	5710	5711	5712	5713	5714	5715	5716	5717	5718	5719	5720	5721	5722	5723	5724	5725	5726	5727	5728	5729	5730	5731	5732	5733	5734	5735	5736	5737	5738	5739	5740	5741	5742	5743	5744	5745	5746	5747	5748	5749	5750	5751	5752	5753	5754	5755	5756	5757	5758	5759	5760	5761	5762	5763	5764	5765	5766	5767	5768	5769	5770	5771	5772	5773	5774	5775	5776	5777	5778	5779	5780	5781	5782	5783	5784	5785	5786	5787	5788	5789	5790	5791	5792	5793	5794	5795	5796	5797	5798	5799	5800	5801	5802	5803	5804	5805	5806	5807	5808	5809	5810	5811	5812	5813	5814	5815	5816	5817	5818	5819	5820	5821	5822	5823	5824	5825	5826	5827	5828	5829	5830	5831	5832	5833	5834	5835	5836	5837	5838	5839	5840	5841	5842	5843	5844	5845	5846	5847	5848	5849	5850	5851	5852	5853	5854	5855	5856	5857	5858	5859	5860	5861	5862	5863	5864	5865	5866	5867	5868	5869	5870	5871	5872	5873	5874	5875	5876	5877	5878	5879	5880	5881	5882	5883	5884	5885	5886	5887	5888	5889	5890	5891	5892	5893	5894	5895	5896	5897	5898	5899	5900	5901	5902	5903	5904	5905	5906	5907	5908	5909	5910	5911	5912	5913	5914	5915	5916	5917	5918	5919	5920	5921	5922	5923	5924	5925	5926	5927	5928	5929	5930	5931	5932	5933	5934	5935	5936	5937	5938	5939	5940	5941	5942	5943	5944	5945	5946	5947	5948	5949	5950	5951	5952	5953	5954	5955	5956	5957	5958	5959	5960	5961	5962	5963	5964	5965	5966	5967	5968	5969	5970	5971	5972	5973	5974	5975	5976	5977	5978	5979	5980	5981	5982	5983	5984	5985	5986	5987	5988	5989	5990	5991	5992	5993	5994	5995	5996	5997	5998	5999	6000	6001	6002	6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## 1.2 Scientists and active researchers

### Example

**Researcher name:** Bekun, Festus Victor

**Affiliation:** Lebanese American University

**Country:** Lebanon

**Email address:** fbekun@gelisim.edu.tr

**The number of WEFE Publications:** 33

**Region:** South Mediterranean

**Scopus profile:** <https://www.scopus.com/authid/detail.url?authorId=57193455217>

- The Above is a real example and the full list is available below









## 1.3 Active institutions



Institution	Sector	Country/Region	Number of Nexus Publications
CNRS	government	France	45
University of Lisbon	academic	Portugal	39
INRAE	government	France	34
Autonomous University of Barcelona	academic	Spain	33
Polytechnic University of Milan	academic	Italy	28
Institut de recherche pour le développement	government	France	23
Université de Montpellier	academic	France	23
University of Bonn	academic	Germany	23
Polytechnic University of Turin	academic	Italy	21
National Technical University of Athens	academic	Greece	20
University of Aveiro	academic	Portugal	19
Helmholtz Centre for Environmental Research	government	Germany	17
Montpellier SupAgro	academic	France	17
Humboldt University of Berlin	academic	Germany	16
National Research Council of Italy	government	Italy	16
Potsdam Institute for Climate Impact Research	government	Germany	16
University of Castilla-La Mancha	academic	Spain	16
University of Las Palmas de Gran Canaria	academic	Spain	16
AgroParisTech	academic	France	15
Technical University of Munich	academic	Germany	15
Technische Universität Dresden	academic	Germany	15
University of Coimbra	academic	Portugal	15
University of Thessaly	academic	Greece	15
Food and Agriculture Organization of the United Nations	government	Italy	14
Jülich Research Centre	government	Germany	14
Leibniz Centre for Agricultural Landscape Research	government	Germany	14
Aristotle University of Thessaloniki	academic	Greece	13
Euro-Mediterranean Center on Climate Change	other	Italy	13
Technical University of Berlin	academic	Germany	13
University of Naples Federico II	academic	Italy	13
Centre de coopération internationale en recherche agronomique pour le développement	government	France	12
ICREA	government	Spain	12
Universidad de Cantabria	academic	Spain	12
University of Beira Interior	academic	Portugal	12
University of Porto	academic	Portugal	12
Ca' Foscari University of Venice	academic	Italy	11
Eastern Mediterranean University	academic	Cyprus	11
Generalitat de Catalunya	government	Spain	11
Polytechnic University of Valencia	academic	Spain	11
RWTH Aachen University	academic	Germany	11
University of Leon	academic	Spain	11
Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo sostenibile	government	Italy	10
Montpellier Business School	academic	France	10
NOVA University Lisbon	academic	Portugal	10
Osnabrück University	academic	Germany	10
Technical University of Madrid	academic	Spain	10
Université Paris Cité	academic	France	10
Université Paris-Saclay	academic	France	10
University of Bologna	academic	Italy	10
University of Florence	academic	Italy	10
University of Girona	academic	Spain	10
University of Naples Parthenope	academic	Italy	10
Centre for Ecological Research and Forestry Applications	academic	Spain	9
CSIC	academic	Spain	9
Institut d'Estudis Catalans	academic	Spain	9
Polytechnic University of Catalonia	academic	Spain	9
Ruhr University Bochum	academic	Germany	9
Universidad de Salamanca	academic	Spain	9
University of Alicante	academic	Spain	9
University of Pavia	academic	Italy	9
German Aerospace Center	government	Germany	8
Roma Tre University	academic	Italy	8
University of Córdoba	academic	Spain	8
University of Freiburg	academic	Germany	8
University of Granada	academic	Spain	8
University of Perugia	academic	Italy	8
University of Santiago de Compostela	academic	Spain	8
University of Zaragoza	academic	Spain	8
Catholic University of the Sacred Heart	academic	Italy	7
Fondazione Eni Enrico Mattei	other	Italy	7
Justus Liebig University Giessen	academic	Germany	7

Köln University of Applied Sciences	academic	Germany	7
Marche Polytechnic University	academic	Italy	7
Paris-Est Sup	academic	France	7
Technical University of Braunschweig	academic	Germany	7
Université Fédérale Toulouse Midi-Pyrénées	academic	France	7
Université Grenoble Alpes	academic	France	7
Université PSL	academic	France	7
University of Hamburg	academic	Germany	7
University of Ljubljana	academic	Slovenia	7
University of Padua	academic	Italy	7
University of Pisa	academic	Italy	7
University of Rome La Sapienza	academic	Italy	7
University of Stuttgart	academic	Germany	7
Istanbul Gelisim University	academic	Turkey	37
American University of Beirut	academic	Lebanon	23
Cag University	academic	Turkey	21
University of Sousse	academic	Tunisia	19
Erciyes University	academic	Turkey	17
Middle East Technical University	academic	Turkey	15
Nevşehir Haci Bektas Veli Universitesi	academic	Turkey	14
University of Carthage	academic	Tunisia	13
University of Manouba	academic	Tunisia	12
Abdullah Gul University	academic	Turkey	10
Ben-Gurion University of the Negev	academic	Israel	10
Kırşehir Ahi Evran University	academic	Turkey	10
National Water Research Center	academic	Egypt	10
Université de Tunis El Manar	academic	Tunisia	10
University of Sfax	academic	Tunisia	10
University of Tunis	academic	Tunisia	8
Cairo University	academic	Egypt	7
European University of Lefke	academic	Turkey	7
Istanbul Technical University	academic	Turkey	6
Kafrelsheikh University	academic	Egypt	6
Ministry of Water Resources & Irrigation	government	Egypt	6
Nisantasi Universitesi	academic	Turkey	6
Scientific and Technological Research Council of Tur	government	Turkey	6
Hacettepe University	academic	Turkey	5
Hebrew University of Jerusalem	academic	Israel	5
Istanbul Medeniyet University	academic	Turkey	5
Mohammed V University in Rabat	academic	Morocco	5
Renewable Energy Development Center	academic	Algeria	5
Sakarya University	academic	Turkey	5
Zonguldak Bülent Ecevit University	academic	Turkey	5
Abou Bakr Belkaïd University of Tlemcen	academic	Algeria	4
Akdeniz University	academic	Turkey	4
Baskent University	academic	Turkey	4
Firat University	academic	Turkey	4
Gaziantep University	academic	Turkey	4
Heliopolis University	academic	Egypt	4
Jordan University of Science and Technology	academic	Jordan	4
Kutahya Dumlupinar University	academic	Turkey	4
Mustafa Kemal University	academic	Turkey	4
Near East University	academic	Turkey	4
Suez Canal University	academic	Egypt	4
University of Haifa	academic	Israel	4
University of Jordan	academic	Jordan	4
Zagazig University	academic	Egypt	4
Alexandria University	academic	Egypt	3
American University in Cairo	academic	Egypt	3
Anadolu University	academic	Turkey	3
Ataturk University	academic	Turkey	3
Harran University	academic	Turkey	3
Karadeniz Technical University	academic	Turkey	3
Mansoura University	academic	Egypt	3
Omer Halisdemir Universitesi	academic	Turkey	3
Suleyman Demirel University	academic	Turkey	3
Technion-Israel Institute of Technology	academic	Israel	3
University of Gabes	academic	Tunisia	3
University of Hassan II Casablanca	academic	Morocco	3
University of Monastir	academic	Tunisia	3
University of Science and Technology of Oran - Moh	academic	Algeria	3
Yildiz Technical University	academic	Turkey	3

## 1.4 Startups and SMEs

### Example

**Startup name:** CarboREM

**Year of establishment:** 01/01/2017

**Description:**

The technology developed by their research team at the University of Trento is an innovative process of enhancing wet organic waste (eg sewage sludge, digestates and organic fraction of solid urban waste) called hydrothermal conversion (acronym HTC, hydrothermal carbonization ). During the HTC the waste is mainly transformed into a liquid that can be used for biogas / biomethane production. Another product of the process is a highly dehydrated solid material, hydrochar, which can be used as a biofuel for energy production or as a soil improver.

**Industry group:** Biotechnology, Energy, Manufacturing, Science and Engineering, Sustainability

**Headquarters:** Rovereto, Trentino-Alto Adige, Italy

**Founder name:** Luca Fiori, Michela Lucian

**Website:** <http://www.carborem.com/it/>

**LinkedIn:** <https://www.linkedin.com/company/carborem/>

**Email:** [info@carborem.com](mailto:info@carborem.com)

**Phone number:** 393298715923

- The Above is a real example and the full list is available below

Company Name	Full Description	Founded Date	Industry Groups	Headquarters Location	Website	Twitter	Facebook	LinkedIn	Contact Email	Phone Number
CarboreM	The technology developed by their research team at the University of Trento is an innovative process of enhancing wet organic waste (eg sewage sludge, digestate and organic fraction of solid urban waste) called hydrothermal conversion (or even HTC, hydrothermal carbonization). During the HTC the waste is mainly transformed into a liquid that can be used for biogas/biometane production. Another product of the process is a highly dehydrated solid material, hydrochar, which can be managed as a biofuel for energy production or as a soil improver.	01/01/2017	Sustainability	Rovereto, Trentino-Alto Adige	<a href="http://www.carborem.com/it/">http://www.carborem.com/it/</a>			<a href="https://www.linkedin.com/company/carborem">https://www.linkedin.com/company/carborem</a>		393299E+11
Delta Oil	Delta Oil is an Egyptian waste oil management start-up in the clean and Agri-Tech sector that offers services in collecting the used cooking oil from households. Founded in 2018, the headquarters in Cairo, Egypt, Delta Oil operates in more than five cities and hundreds of villages. Delta Oil Build's an ecosystem for a thriving biodiesel industry by providing a sustainable and cheap feedstock of used cooking oil to be converted into clean biodiesel. It collects used cooking oil from individuals, homes providing a pickup service to make it easier so that individuals can dispose of their used cooking oil safely.	01/01/2018	Agriculture and Farming, Energy, Natural Resources, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://www.deltaoil.eg.com/">http://www.deltaoil.eg.com/</a>	<a href="https://www.facebook.com/deltaoil.eg">https://www.facebook.com/deltaoil.eg</a>	<a href="https://www.instagram.com/deltaoil.eg">https://www.instagram.com/deltaoil.eg</a>	<a href="https://www.linkedin.com/company/deltaoil">https://www.linkedin.com/company/deltaoil</a>	<a href="mailto:info@deltaoil.eg">info@deltaoil.eg</a>	01227432207
Trovant Technology	Trovant Technology specializes in the development of bio-based technologies for organic waste treatment and valorization, transforming this waste into bioenergy. They develop proprietary technology and tailor-made solutions, always keeping the market in mind. At the moment they are focusing on biogas upgrading and biomethane with UBI - Biological Integral Biogas Upgrading.	03/07/2018	Sustainability	Val adolix, Castilla y Leon, Sp	<a href="http://trovanttechnologies.com/">http://trovanttechnologies.com/</a>	<a href="https://twitter.com/trovanttechnologies">https://twitter.com/trovanttechnologies</a>	<a href="https://www.facebook.com/trovanttechnologies">https://www.facebook.com/trovanttechnologies</a>	<a href="https://www.linkedin.com/company/trovant-technology">https://www.linkedin.com/company/trovant-technology</a>		
BIOMAX	BIOMAX is specialized in the development and production of biomaterials from biofertilizers to biofuels from different agricultural waste. Baramoda is one of the first agri-tech start-ups in the MENA region, focused on sustainable agricultural innovations, develops products that help farmers to maximize the efficiency of agri-waste management, minimize the cost of production agricultural, reduce excessive use of chemical fertilizers, and increase crop production, at minimal usage of water resources, through organic fertilizer based on the land, crops needs and the goal of agriculture.	01/01/2017	Agriculture and Farming, Biotechnology, Food and Beverage, Science and Engineering	Cairo, Al Qahirah, Egypt						
Bermoda	Bermoda is one of the first agri-tech start-ups in the MENA region, focused on sustainable agricultural innovations, develops products that help farmers to maximize the efficiency of agri-waste management, minimize the cost of production agricultural, reduce excessive use of chemical fertilizers, and increase crop production, at minimal usage of water resources, through organic fertilizer based on the land, crops needs and the goal of agriculture.	01/01/2015	Agriculture and Farming, Biotechnology, Science and Engineering	Ad Douqi, Al Jizah, Egypt	<a href="http://baramoda.org/">http://baramoda.org/</a>			<a href="https://www.linkedin.com/company/baramoda">https://www.linkedin.com/company/baramoda</a>		2011E+11
Nilebot	Nilebot provides a water quality monitoring system for aquaculture. They also provide a water quality laboratory, water quality sampling, a water quality meter, and monitoring of fish farms.	01/01/2015	Resources, Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://www.nilebot.com/">https://www.nilebot.com/</a>	<a href="https://twitter.com/nilebot">https://twitter.com/nilebot</a>		<a href="https://www.linkedin.com/company/nilebot">https://www.linkedin.com/company/nilebot</a>		2011528832
G2G Algae Solutions	G2G Algae Solutions is a biotech company that focuses on the cultivation of microalgae to improve soil and its fertility. It applies the technology of microalgae cultivation to collaborate in the recovery of natural resources, soils, water, and air. The company's microalgae culture system (photobioactor) solves in a simple and efficient way the difficulties involved in taking the culture anywhere. It combines a large volume of cultivation with reduced space and with a more than satisfactory productivity. Founded in 2019 and is based in Seville, Andalusia, Spain.	03/01/2019	Agriculture and Farming, Engineering, Sustainability	Seville, Andalusia, Spain	<a href="https://www.g2galgae.com/">https://www.g2galgae.com/</a>	<a href="https://twitter.com/g2galgae">https://twitter.com/g2galgae</a>		<a href="https://www.linkedin.com/company/g2galgae">https://www.linkedin.com/company/g2galgae</a>		+34 65-394-7175
Visual and AI Solutions	Visual and Artificial Intelligence Solutions (VAIS) is a deep-tech company that develops innovative and proprietary AI/deep learning algorithms and solutions for use in the domains of agricultural technology (AgriTech) and multispectral Earth Observation (EO) data analytics.	01/01/2020	Software	Gv'Eza, Al Jizah, Egypt	<a href="https://vais.ai/">https://vais.ai/</a>			<a href="https://www.linkedin.com/company/vais-ai">https://www.linkedin.com/company/vais-ai</a>		
EGROBOTS	Egrobots developed an affordable service "Precision-Agriculture as a Service" for tree farm owners to scan and diagnose farms using Robotics and Artificial Intelligence. Our services enable data-driven agriculture and deliver immediate insights and recommendations for all farm owners without needing infrastructure or expensive IoT devices. As a result, we reduce water consumption and pesticide usage and increase crops' quality and quantity.	03/07/2021	Engineering, Software	Alexandria, Al Iskandariyah	<a href="https://egrobots.com/">https://egrobots.com/</a>			<a href="https://www.linkedin.com/company/egrobots">https://www.linkedin.com/company/egrobots</a>		201554E+11
Cupmena	Cupmena is taking in the Agri-tech and waste management space. It builds a waste collection system to collect the spent coffee ground, Ai SCG, Ai to maximize value by reusing it to develop and empower solutions for the Agri-sector. We developed a highly efficient Agri-solution to cultivate mushrooms using the spent coffee ground as the primary soil. In the meantime, we are working on the Research and development vertical and horizontal, which means we are developing new mushroom strains to offer to the market as well as developing new Agri-solutions out of the spent coffee ground Agri-sector in Egypt and the MENA region.	03/06/2018	Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://cupmena.com/">http://cupmena.com/</a>			<a href="https://www.linkedin.com/company/cupmena">https://www.linkedin.com/company/cupmena</a>		382 8344
Darwin Bioprospecting	Darwin Bioprospecting Excellence is a company that selects microbial strains for the biotechnology industry. The company focuses on the isolation, characterization, and production of microorganisms that can be used in a range of applications, including in the food and agricultural industries. It aims at designing each project with personalized sampling, culturing, sequencing, and production strategies to meet the needs of the clients. Darwin Bioprospecting Excellence was founded in 2016 and is headquartered in Paterna, Valencia, Spain.	03/01/2016	Agriculture and Farming, Biotechnology, Food and Beverage, Health Care, Science and Engineering	Paterna, Comunidad Valenc	<a href="https://darwinbioprospecting.com/">https://darwinbioprospecting.com/</a>	<a href="https://twitter.com/darwinbioprospecting">https://twitter.com/darwinbioprospecting</a>		<a href="https://www.linkedin.com/company/darwinbioprospecting">https://www.linkedin.com/company/darwinbioprospecting</a>		+34 683 67 20 15
Fruitful Solutions	Fruitful Solutions brings resilience to fresh food processing through its cutting-edge quality assessment powered by AI tools to build transparency in the food value chain, minimize global food losses and maintain food security.	15/09/2019	Manufacturing, Science and Engineering	Cairo, Al Qahirah, Egypt	<a href="https://fruitful.solutions/">https://fruitful.solutions/</a>	<a href="https://twitter.com/fruitful_solutions">https://twitter.com/fruitful_solutions</a>		<a href="https://www.linkedin.com/company/fruitful-solutions">https://www.linkedin.com/company/fruitful-solutions</a>		-1062261436
Tagaddod	Tagaddod is a renewable Energy and Waste Management Egyptian company, started in February 2013 and operating in Cairo, Ai Egypt. Currently focusing on clean fuels, Tagaddod is working on Biodiesel production from Vegetable Oils. Biodiesel is a fuel alternative that is produced from waste vegetable oils and used in conventional diesel engines, which can directly substitute for or extend supplies of traditional petroleum diesel.	01/02/2013	Energy, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://www.tagaddod.com/">http://www.tagaddod.com/</a>	<a href="https://twitter.com/tagaddod">https://twitter.com/tagaddod</a>		<a href="https://www.linkedin.com/company/tagaddod">https://www.linkedin.com/company/tagaddod</a>		2011E+11
Itinsect - Feed for the Ocean	Itinsect is the biotech startup that developed the sustainable alternative to aquaculture feed. Itinsect produces high performance feeds through the microbiological treatment of novel raw ingredients including insects, microalgae and agricultural by-products, in line with the circular economy principles. With Itinsect, there is no longer need to catch fish from the marine environment as nutrition for farmed fish. The company's mission is to make the aquaculture ocean-impact neutral.	15/12/2021	Engineering	Rome, Lazio, Italy	<a href="https://www.itinsect.com/">https://www.itinsect.com/</a>			<a href="https://www.linkedin.com/company/itinsect">https://www.linkedin.com/company/itinsect</a>		
ReNile	ReNile is an Egyptian company working in the field of the Internet of Things (IoT) in environmental solutions. ReNile provides a full solution from monitoring, alerting in emergencies, controlling, and providing analytics of the best practices. Ai models through an online platform.	01/01/2018	Administrative Services, Agriculture and Farming, Internet Services	6 October City, Al Jizah, Eg	<a href="https://www.renile.net/">https://www.renile.net/</a>	<a href="https://twitter.com/re_nile">https://twitter.com/re_nile</a>		<a href="https://www.linkedin.com/company/re-nile">https://www.linkedin.com/company/re-nile</a>		201094E+11
Bluetab	Bluetab specialises in drinking water for the detection of legionella in drinking water. They developed a unique, patent-pending technology. This enables automated on-site testing of drinking water systems for legionella infection.	28/02/2018	Engineering	Vißingen, Baden-Wuerttemb	<a href="https://www.bluetab-h2o.de/">https://www.bluetab-h2o.de/</a>			<a href="https://www.linkedin.com/company/bluetab">https://www.linkedin.com/company/bluetab</a>		+49 7071 7638737
Syn	syn energy electricity sales, setting up project signing between partners and off-takers, 360 Insurance, Fast revolutionary project signing process (a simple mobile click yes gets you legally signed on the project), online market place for products and services for individuals and partners, online socializing and networking, online negotiations, powerplant sales, online consortium setup	05/09/2022	Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://www.syninternational.com/">https://www.syninternational.com/</a>	<a href="https://twitter.com/syninternational">https://twitter.com/syninternational</a>		<a href="https://www.linkedin.com/company/syninternational">https://www.linkedin.com/company/syninternational</a>		
Mahaseef Masr	Mahaseef Masr is a fresh produce digital platform that connects Growers and Global Buyers directly, eliminating the need for a middleman.	01/01/2019	Agriculture and Farming	Cairo, Al Qahirah, Egypt	<a href="https://www.mahaseef.com/">https://www.mahaseef.com/</a>	<a href="https://twitter.com/mahaseefmasr">https://twitter.com/mahaseefmasr</a>		<a href="https://www.linkedin.com/company/mahaseef-masr">https://www.linkedin.com/company/mahaseef-masr</a>		
Farminal	Farminal is a dairy farm management technology solutions company with focus on delivering niche complementary systems for large and medium dairy farms, as well as offering sustainable solutions for small farms. The company relies on its core competitiveness with image analysis to be the first in the market that delivers cow care through automatic vision.	01/01/2014	Professional Services	Gv'Eza, Al Jizah, Egypt	<a href="http://www.farminal.com/">http://www.farminal.com/</a>			<a href="https://www.linkedin.com/company/farminal">https://www.linkedin.com/company/farminal</a>		
Sunergy	Sunergy is a new venture renewable energy solution provider based in Egypt. They offer a comprehensive range of vertically-integrated end-to-end renewable energy solutions customized to satisfy/about us 1 different clients, Ai energy needs. As they work with their clients from consultation and analysis of their requirements all the way to installation and maintenance, we provide regular follow up service as per clients, Ai needs to ensure they will always have their energy needs met. Customer service is paramount to Sunergy. So, they go beyond contracting and supply of solutions to have all our services delivered with a personal touch so clients get the best of both worlds. They believe alternative and renewable energies will play a significant role in meeting future energy demand. So, we have made it their mission to empower individuals and corporate bodies to actively become energy independent through the use of renewable energy. Chef's House is a full-service kitchen operation management system that offers business analytics, branding, and food packaging services that are specially designed and crafted for the highest possible food quality and safety. In order to maximize the advantages of the operational brands, the equipment is built and crafted.	01/01/2013	Energy, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://sunergytech.net/">http://sunergytech.net/</a>	<a href="https://www.facebook.com/sunergytech">https://www.facebook.com/sunergytech</a>		<a href="https://www.linkedin.com/company/sunergytech">https://www.linkedin.com/company/sunergytech</a>		201007E+11
Chef's House	Chef's House is a full-service kitchen operation management system that offers business analytics, branding, and food packaging services that are specially designed and crafted for the highest possible food quality and safety. In order to maximize the advantages of the operational brands, the equipment is built and crafted.		Food and Beverage, Transportation	Cairo, Al Qahirah, Egypt	<a href="https://www.chefshouse.com/">https://www.chefshouse.com/</a>			<a href="https://www.linkedin.com/company/chefshouse">https://www.linkedin.com/company/chefshouse</a>		
Infinity Power Holding	Infinity Power Holding target power generation projects through renewable energy sources, namely solar and wind technologies.	01/01/2014	Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://www.weariph.com/">http://www.weariph.com/</a>			<a href="https://www.linkedin.com/company/infinity-power-holding">https://www.linkedin.com/company/infinity-power-holding</a>		+31 0522 2555
Farmtopia	Witness the full power of precision farming automation based on Farming AI to perfect your farming process, increase yield & reduce farming costs by leveraging the power of satellite AI analysis & Farmtopia in Field AIG's that enables real-time control of the irrigation/fertilization processes based on crop needs	03/08/2020	Software	Gv'Eza, Al Jizah, Egypt	<a href="https://www.farmtopia.fr/">https://www.farmtopia.fr/</a>	<a href="https://twitter.com/farmtopia_fr">https://twitter.com/farmtopia_fr</a>		<a href="https://www.linkedin.com/company/farmtopia">https://www.linkedin.com/company/farmtopia</a>		-6235
Solarizegypt	Solarizegypt is a certified solar EPC that designs, installs and commissions PV solar power plants	01/01/2013	Energy, Natural Resources, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://www.solarizegypt.com/">http://www.solarizegypt.com/</a>			<a href="https://www.linkedin.com/company/solarizegypt">https://www.linkedin.com/company/solarizegypt</a>		+20 114 073 8330
Tomatik	Tomatik provides end-to-end solutions for farm, organization, trade industry. Depending on the size and field of your organization, they have different products and services to meet your requirements. They provide the optimum and customized IoT solutions made for your organization. Tomatik began its business operation as a hardware and software IoT solutions manufacturing company in January 2013. Tomatik is focusing exclusively in high quality and cost-effective software and hardware development and implementation of services. They are advancing on a tremendous pace and with involvement of skilled and experienced people working in the organization. Tomatik is currently doing business in Government, Farms, and Compounds	01/01/2016	Software	Cairo, Al Qahirah, Egypt	<a href="http://tomatik.com/">http://tomatik.com/</a>	<a href="https://twitter.com/tomatik">https://twitter.com/tomatik</a>		<a href="https://www.linkedin.com/company/tomatik">https://www.linkedin.com/company/tomatik</a>		0201 738747
Amgad	Amgad is an innovative provider for energy management solutions and IoT systems. We provide smart metering systems for clients in commercial and industrial sectors to help them save 25% of their electrical bill and control their energy consumption. Innovation is our goal. We always seek to create value in our systems and with involvement of skilled and experienced people working in the organization. Amgad is currently doing business in Government, Farms, and Compounds	01/01/2014	Software, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://amgadot.com/">http://amgadot.com/</a>	<a href="https://twitter.com/amgadot">https://twitter.com/amgadot</a>		<a href="https://www.linkedin.com/company/amgad">https://www.linkedin.com/company/amgad</a>		201013E+11
Agrisolar Solutions	Agrisolar is a solar solution provider company that engages in the development, production, and sale of solar products.	01/01/2015	Energy, Natural Resources, Sustainability	Gv'Eza, Al Jizah, Egypt	<a href="http://www.agrisolar-eg.com/">http://www.agrisolar-eg.com/</a>	<a href="https://twitter.com/agrisolar_eg">https://twitter.com/agrisolar_eg</a>		<a href="https://www.linkedin.com/company/agrisolar">https://www.linkedin.com/company/agrisolar</a>		202 38482256
Al Nasr Solar	Al Nasr Solar LLC is an Egyptian company specialized in providing services and solutions for solar and alternative energy, including installation, operation and maintenance of irrigation pumps and solar power stations	23/02/2016	Energy, Natural Resources, Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://www.nasrsolar.com/">https://www.nasrsolar.com/</a>	<a href="https://twitter.com/nasrsolar">https://twitter.com/nasrsolar</a>		<a href="https://www.linkedin.com/company/al-nasr-solar">https://www.linkedin.com/company/al-nasr-solar</a>		21001681752
EMFI Group	EMFI Group engages in power-plants construction, operation, maintenance, substations, and testing industries.	01/01/1991	Technology, Real Estate	Gv'Eza, Al Jizah, Egypt	<a href="https://www.emfigroup.com/">https://www.emfigroup.com/</a>	<a href="https://twitter.com/emfigroup">https://twitter.com/emfigroup</a>		<a href="https://www.linkedin.com/company/emfi-group">https://www.linkedin.com/company/emfi-group</a>		2023 748 5952
Mecha Solar	Mecha Solar Egypt is a renewable energy project developer company that specializes in solar energy deployment. Mecha identify, develop, and finance viable renewable energy projects. Mecha Solar Egypt only uses proven technologies from trusted suppliers and manufacturers and only hires internationally recognized and respected contractors.	07/08/2016	Energy, Natural Resources, Sustainability	Gv'Eza, Al Jizah, Egypt	<a href="https://mech.com/">https://mech.com/</a>	<a href="https://twitter.com/mech_egypt">https://twitter.com/mech_egypt</a>		<a href="https://www.linkedin.com/company/mechasolar">https://www.linkedin.com/company/mechasolar</a>		+20 1156417544
Cropsa	Cropsa is the integrated trading platform for agricultural production.	01/01/2021	Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://cropsaegypt.com/">https://cropsaegypt.com/</a>					
Agri DB	Agri DB is an online agricultural market database that provides information about agricultural companies.	01/09/2013	Sustainability	Gv'Eza, Al Jizah, Egypt	<a href="http://www.agri-db.com/">http://www.agri-db.com/</a>	<a href="https://twitter.com/agri_db">https://twitter.com/agri_db</a>		<a href="https://www.linkedin.com/company/agri-db">https://www.linkedin.com/company/agri-db</a>		201091E+11
Samoral	Samoral is a chemical solutions company that provides paper chemicals, dyes, industrial detergents, water treatment, and coating products.	01/02/1975	Sustainability	Alexandria, Al Iskandariyah	<a href="http://www.samoral.com/">http://www.samoral.com/</a>	<a href="https://twitter.com/samoral">https://twitter.com/samoral</a>		<a href="https://www.linkedin.com/company/samoral">https://www.linkedin.com/company/samoral</a>		-8761
News Analytics	News Analytics firm	19/09/2019	Energy, Information Technology	Cairo, Al Qahirah, Egypt	<a href="http://newsanalytics.com/">http://newsanalytics.com/</a>			<a href="https://www.linkedin.com/company/news-analytics">https://www.linkedin.com/company/news-analytics</a>		
Foodex	Foodex is a food processing firm that exports vegetables, fruits, french fries and sauce.	01/01/2013	Food and Beverage	Tanta, Al Gharbiyah, Egypt	<a href="http://www.foodex-eg.com/">http://www.foodex-eg.com/</a>	<a href="https://twitter.com/foodex_eg">https://twitter.com/foodex_eg</a>		<a href="https://www.linkedin.com/company/foodex-eg">https://www.linkedin.com/company/foodex-eg</a>		201201E+11
Galina	Galina specializes in producing and processing a wide range of fruits and vegetables.	01/01/2003	Food and Beverage	Alexandria, Al Iskandariyah	<a href="http://www.galina-eg.com/">http://www.galina-eg.com/</a>	<a href="https://twitter.com/galina_eg">https://twitter.com/galina_eg</a>		<a href="https://www.linkedin.com/company/galina-eg">https://www.linkedin.com/company/galina-eg</a>		203543942
Triple RE	Triple RE is a company that recycles electronic, electrical and mechanical wastes.		Consumer Electronics, Energy, Hardware, Internet Services, Natural Resources, Sustainability	6 October City, Al Jizah, Eg	<a href="http://triplere.net/">http://triplere.net/</a>	<a href="https://twitter.com/triplere_net">https://twitter.com/triplere_net</a>		<a href="https://www.linkedin.com/company/triplere-net">https://www.linkedin.com/company/triplere-net</a>		25733741
WAI Technologies	WAI Technologies offers intelligent water management solutions. They provide end-to-end smart water services. They offer operation monitoring, incident alerts, data analysis, data loggers data collection, and GIS and hydraulic model integration.	01/01/2020	Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://www.wai-techs.com/">https://www.wai-techs.com/</a>	<a href="https://twitter.com/wai_techs">https://twitter.com/wai_techs</a>		<a href="https://www.linkedin.com/company/wai-techs">https://www.linkedin.com/company/wai-techs</a>		+20 1068646825
Kilala	A social group ordering platform for families—where we take care of the end-to-end operations—with minimal waste and better prices.	01/11/2022	Agriculture and Farming	Cairo, Al Qahirah, Egypt					<a href="mailto:budir@kilalaapp.com">budir@kilalaapp.com</a>	
FawaHo Farms	FawaHo Farms produces fruits and vegetables for the food industry.	01/01/2017	Food and Beverage	Cairo, Al Qahirah, Egypt	<a href="http://www.fawahco.com/">http://www.fawahco.com/</a>	<a href="https://twitter.com/fawahco">https://twitter.com/fawahco</a>		<a href="https://www.linkedin.com/company/fawahco">https://www.linkedin.com/company/fawahco</a>		+44 7 999 33 838
Hydrofarms	Hydrofarms agri solutio Hydrofarms is a hydroponics industry that helps in increasing production.	01/01/2012	Professional Services	Cairo, Al Qahirah, Egypt	<a href="http://www.hydrofarms.com/">http://www.hydrofarms.com/</a>	<a href="https://twitter.com/hydrofarms">https://twitter.com/hydrofarms</a>		<a href="https://www.linkedin.com/company/hydrofarms">https://www.linkedin.com/company/hydrofarms</a>		



REBAT Systems Ltd.	Engineering Services Company, covering the following disciplines: - MEP constructions services - PV Solar Systems - BMS & Home Automation - Lighting Installations & Retrofit	01/06/2013	Energy, Manufacturing, Natural Resources, Real Estate, Science and Engineering, Sustainability	Alexandria, Al Iskandariyah	<a href="http://www.rebatsystems.com">http://www.rebatsystems.com</a> <a href="https://www.facebook.com/moustafa.reba">https://www.facebook.com/moustafa.reba</a>	2.01003E+11
Zon Solutions	Zon was established to meet the increasing need for a solution to the energy problems in Egypt using alternative and renewable energy	01/01/2013	Energy, Natural Resources, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://www.zon-solutions.com">http://www.zon-solutions.com</a> <a href="https://www.facebook.com/zon-solutions">https://www.facebook.com/zon-solutions</a>	201.001.003.1605
Alternative Energy Africa	Alternative Energy Africa, launched in January 2008, is a Petroleum Africa publication which seeks to fill the energy information gap in Africa. Drawing on its parent company's extensive knowledge of the energy industry of Africa, as well as its resources, Alternative Energy Africa will provide a forum for stakeholders to engage each other in discussions about this industry, and will seek to become the magazine of choice for African governments, ministries, NGOs, indigenous companies, and international businesses, as it is for Petroleum Africa. Alternative Energy Africa will update readers on private sector projects, government initiatives, business and investment news, and strategies for a thriving alternative/renewable energy market on the African continent. Their dedicated and knowledgeable editorial team is confident that their publication will become a true premiere source of alternative and renewable energy news covering the African continent.	01/01/2008	Content and Publishing, Energy, Media and Entertainment, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://ae-africa.com/">http://ae-africa.com/</a>	info@AE-Africa.cc 2022517454
Born Global Trade	Born Global Trade provides refined salt, salt tablets, construction material, phosphate rocks, urea, and aluminum sulphate products to export. They provide export, import, trading, petrochemical trading, salt trading, chemical trading, fertilizer, phosphates, fertilizers, and nitrates services.	01/01/2017	Agriculture and Farming, Real Estate, Transportation	Alexandria, Al Iskandariyah	<a href="https://bornglobaltrade.com">https://bornglobaltrade.com</a> <a href="https://www.facebook.com/born-g">https://www.facebook.com/born-g</a>	201.003.5708688
BaladiMeat	BaladiMeat is an online meat and poultry ordering startup in Egypt	15/01/2021	Commerce and Shopping, Food and Beverage, Transportation	Giza, Al Jizah, Egypt	<a href="https://www.baladimeat.com">https://www.baladimeat.com</a> <a href="https://www.facebook.com/baladimeat">https://www.facebook.com/baladimeat</a>	1000200654
Shamsina	Shamsina is a manufacturing company that designs and manufactures affordable and reliable solar water heaters for the community.	01/01/2016	Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://shamsina.com">https://shamsina.com</a> <a href="https://www.facebook.com/shamsinasolar.com">https://www.facebook.com/shamsinasolar.com</a>	
Global Tronics	Global Tronics provides the market with the finest collection of power meters, utilizing the latest technologies in the industry and the best worldwide components and techniques. Their services include electricity meters and energy management solutions, smart meters, and smart grids.	01/01/1998	Energy, Manufacturing, Services, Professional	Giza, Al Jizah, Egypt	<a href="http://www.gtronics.com">http://www.gtronics.com</a> <a href="https://www.facebook.com/gtronics">https://www.facebook.com/gtronics</a>	202.386.42082
Amjaad	Amjaad is an innovative provider for energy management and iot solutions.	01/01/2014	Energy, Information Technology	Cairo, Al Qahirah, Egypt	<a href="http://amjadiot.com">http://amjadiot.com</a> <a href="https://www.facebook.com/info/amjadiot">https://www.facebook.com/info/amjadiot</a>	2.01026E+11
Les Dames	Les Dames is a bakery that sells customized pastries, eastern desserts, chocolates, oriental sweets, and ice cream products.	01/01/1979	Commerce and Shopping, Food and Beverage	Cairo, Al Qahirah, Egypt	<a href="https://lesdamesegypt.com">https://lesdamesegypt.com</a> <a href="https://www.facebook.com/lesdames">https://www.facebook.com/lesdames</a>	+20 122-811-1108
El Rashdy El Asly	El Asly provides quality meal solutions to consumers in the Middle East and Africa through a rich portfolio like Halawa and Tahina that is made from 100% ground sesame seeds to guarantee quality and excellence to our consumers.	1888-01-01	Food and Beverage	Cairo, Al Qahirah, Egypt	<a href="http://elrashdy.com">http://elrashdy.com</a> <a href="https://www.facebook.com/elrashdy">https://www.facebook.com/elrashdy</a>	202393474
EGYTRAFD	EGYTRAFD offers oil transformers, automatic voltage regulator, nickel cadmium batteries, and dry transformers with after sales services.	01/01/1979	Energy, Manufacturing	Cairo, Al Qahirah, Egypt	<a href="https://egytraf.com">https://egytraf.com</a> <a href="https://www.facebook.com/egytraf">https://www.facebook.com/egytraf</a>	10112087461
AlexFert	AlexFert specializes in producing chemical fertilizers, mainly granular urea.	01/01/2003	Agriculture and Farming, Manufacturing	Alexandria, Al Iskandariyah	<a href="http://www.alexfert.com">http://www.alexfert.com</a> <a href="https://www.facebook.com/alexfert">https://www.facebook.com/alexfert</a>	+20 3 5603329
Gaia	Gaia is a solar energy services provider that offers innovative and customized solar energy systems. They are the first company in Egypt to offer efficient and reliable solar energy-based desalination solutions with competitive features and pricing. Gaia's main product is a compact stand-alone system that provides sufficient drinking water for around 80 persons per day, or all-purpose use water for 7 persons per day. The product is suitable for ships, beach houses and off-shore oil rigs. Their business model relies on offering a local and accessible service in Egypt, with plans to expand in the Middle East, as well as diversify into other related technology areas.	01/01/2013	Energy, Natural Resources, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://www.gaia.com.eg">http://www.gaia.com.eg</a> <a href="https://www.facebook.com/gaia.com.eg">https://www.facebook.com/gaia.com.eg</a>	info@gaia.com.eg
Baramoda	Baramoda is an Agri-tech company that minimizes production cost of agriculture, increases production and reduces use of chemical fertilizers	01/01/2015	Agriculture and Farming, Sustainability	Giza, Al Jizah, Egypt	<a href="https://baramoda.org/">https://baramoda.org/</a> <a href="https://www.facebook.com/baramoda">https://www.facebook.com/baramoda</a>	100888618
SOBEK	SOBEK industries builds the parallel infrastructure required by clients to supply their water needs, helping to create an environmentally sustainable system in the process with the best user experience with basic accessible simple tools a water plant consists of. The company was founded in 2018 and is based in Cairo, Egypt.	01/01/2018	Manufacturing, Natural Resources, Other	Cairo, Al Qahirah, Egypt	<a href="https://www.sobek.tech/">https://www.sobek.tech/</a> <a href="https://www.facebook.com/SOBEK">https://www.facebook.com/SOBEK</a>	2.011E+11
Apotec Bay	Apotec Bay is a biotechnology company that offers botanical products and provides contract farming, laboratory analysis, and consultancy.	01/01/1998	Agriculture and Farming, Biotechnology, Professional Services, Science and Engineering, Agriculture and Farming, Food and Beverage, Health Care	6 October City, Al Jizah, Eg	<a href="https://www.apotecbay.com">https://www.apotecbay.com</a> <a href="https://www.facebook.com/apotec">https://www.facebook.com/apotec</a>	2.01007E+11
Multi Vita	Multi Vita engages in poultry production and supplies products to keep animals healthy.	01/01/1998	Manufacturing	6 October City, Al Jizah, Eg	<a href="https://multivita-eg.com">https://multivita-eg.com</a>	info@multivita-eg 2.01001E+11
Energy Egypt	Beach Petroleum (Egypt) Pty Ltd. explores and produces oil and gas in Egypt. It operates the North Shadwan Concession, Abu Senan Concession, and El Qa'a Plain extraction sites.	01/01/2008	Resources	Helipolis, Al Qahirah, Egypt	<a href="https://energyegypt.com">https://energyegypt.com</a> <a href="https://www.facebook.com/energyegypt">https://www.facebook.com/energyegypt</a>	2-02.244-1686
The Capital Egypt	The Capital Egypt expertise in smart infrastructure services that include monitoring of utilities, CCTV control sensors & energy management.	01/01/2016	Energy, Other, Real Estate	Cairo, Al Qahirah, Egypt	<a href="http://scud.eg/">http://scud.eg/</a> <a href="https://www.facebook.com/scud.eg">https://www.facebook.com/scud.eg</a>	-37536
systronic group	systronic group offers professional services such as shipping, import, export, customs clearance, solar energy, marketing, and contracting. SunCity is disrupting irrigation practices by developing and building affordable solar energy solutions that help small farmers switch from diesel pumps.	16/08/2010	Sustainability	Alexandria, Al Iskandariyah	<a href="https://www.systronic.com">https://www.systronic.com</a> <a href="https://www.facebook.com/systronic">https://www.facebook.com/systronic</a>	+002 0101142243
Sun City Energy	SunCity is disrupting irrigation practices by developing and building affordable solar energy solutions that help small farmers switch from diesel pumps.	01/01/2010	Energy, Sustainability	Giza, Al Jizah, Egypt	<a href="http://www.suncityeg.com">http://www.suncityeg.com</a> <a href="https://www.facebook.com/suncityeg">https://www.facebook.com/suncityeg</a>	20105037347
AutoBrand	AutoBrand is a contracting firm that offers water desalination, operation and maintenance management, and water treatment solutions.	01/01/2005	Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://www.autobrandco.com">https://www.autobrandco.com</a> <a href="https://www.facebook.com/autobrand">https://www.facebook.com/autobrand</a>	201.101.144.4468
Organic Co. For Import	Organic is an import and export company which supplies agricultural products including frozen & fresh fruits and vegetables.	01/01/2018	Food and Beverage, Sales and Marketing	El Fayoum City, Al Fayyum	<a href="https://www.organicco.com">https://www.organicco.com</a> <a href="https://www.facebook.com/organicco">https://www.facebook.com/organicco</a>	2.0109E+11
PowerBridge Resources	PowerBridge is a midstream energy company, providing integrated small scale Natural Gas solutions.	01/01/2014	Energy, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://www.powerbridgegroup.com/">http://www.powerbridgegroup.com/</a>	info@powerbridgegroup.com
Leaf Animals	Leaf Animals is a website that connects animals in need of adoption with potential caregivers.	01/01/2020	Agriculture and Farming, Community and Lifestyle, Internet	Cairo, Al Qahirah, Egypt	<a href="https://www.leafanimals.com">https://www.leafanimals.com</a>	
SCADA Innovations	SCADA Innovations is an engineering firm that provides automation, telecommunication, protection and control services for the energy sector.	01/01/1996	Energy, Hardware, Manufacturing, Natural Resources, Science and Engineering, Software, Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://scadainnovations.com">https://scadainnovations.com</a> <a href="https://www.facebook.com/scadainnovations">https://www.facebook.com/scadainnovations</a>	+20 100 0855 700
Al Amal For Agriculture	Al Amal For Agriculture specializes in trading and manufacturing crops.	01/01/1975	Sustainability	Damanhour, Al Buhayrah	<a href="http://alama.com">http://alama.com</a> <a href="https://www.facebook.com/alama">https://www.facebook.com/alama</a>	20 45 3252525
Agrimatic	Agrimatic is an aquaponic agriculture company that develops edible crops with the help of soil-less technologies.	01/01/2014	Agriculture and Farming	Cairo, Al Qahirah, Egypt	<a href="http://www.agrimaticfarms.com">http://www.agrimaticfarms.com</a>	
UD Crops	UD Crops is a food and beverages manufacturing industry that supplies dehydrated onions, garlic, and leeks.	01/01/2015	Agriculture and Farming, Food and Beverage, Manufacturing	Cairo, Al Qahirah, Egypt	<a href="https://udcrops.com">https://udcrops.com</a> <a href="https://www.linkedin.com/company/udcrops">https://www.linkedin.com/company/udcrops</a>	20 27267336
Complete Energy Solutions	Complete Energy Solutions provides renewable and solar energy EPC for commercial and industrial rooftop PV solutions.	01/01/2012	Energy, Natural Resources, Sustainability	Cairo, Al Qahirah, Egypt	<a href="http://compleenergy.com">http://compleenergy.com</a> <a href="https://www.facebook.com/compleenergy">https://www.facebook.com/compleenergy</a>	+20 23494977
Seenopex	Seenopex specializes in drilling services and a piping system solutions for oil and gas industries.	01/01/2012	Energy, Manufacturing, Natural Resources, Science and Engineering	Cairo, Al Qahirah, Egypt	<a href="http://www.seenopex.com">http://www.seenopex.com</a> <a href="https://www.facebook.com/seenopex">https://www.facebook.com/seenopex</a>	202 222 688 080
365 Ecology	365 Ecology specializes in energy-efficient cooling and heating solutions.	01/01/2015	Manufacturing, Other	Giza, Al Jizah, Egypt	<a href="http://www.365ecology.com">http://www.365ecology.com</a> <a href="https://www.facebook.com/365ecology">https://www.facebook.com/365ecology</a>	20100968999
Rozma	Rozma is a mobile and web based application that allows retailers to order directly from small to medium scale local farmers. The application aggregate the orders from buyers and matches them with offers from seller. Atlas engages in real estate, farm development, and agricultural processing. It is in the business of land reclamation and food processing while creating communities based on sustainable development. They have an economic reform program, including the liberalization of the exchange rate regime, fiscal consolidation measures, and reforms to the business environment.	04/07/2018	Agriculture and Farming, Apps, Commerce and Shopping, Internet Services, Mobile, Software	Cairo, Al Qahirah, Egypt	<a href="https://rozma.com">https://rozma.com</a>	sherif.hosny@sch 2.01227E+11
Atlas	Atlas engages in real estate, farm development, and agricultural processing. It is in the business of land reclamation and food processing while creating communities based on sustainable development. They have an economic reform program, including the liberalization of the exchange rate regime, fiscal consolidation measures, and reforms to the business environment.	01/10/1997	Agriculture and Farming, Food and Beverage, Real Estate	Giza, Al Jizah, Egypt	<a href="http://www.atlasegypt.com">http://www.atlasegypt.com</a> <a href="https://www.facebook.com/atlasegypt">https://www.facebook.com/atlasegypt</a>	-35039813
Jawda Engineering Consultants - JEC	Jawda Engineering Consultants - JEC	01/01/2001	Services	Cairo, Al Qahirah, Egypt	<a href="http://www.jawdacon.com">http://www.jawdacon.com</a> <a href="https://www.facebook.com/jawdacon">https://www.facebook.com/jawdacon</a>	-24129277.42
First for Industrial and Production companies.	First for Industrial and Energy Services is a consultancy offering transportation, power energy, oil, and gas services. They are involved with its partners in developing refineries, petrochemical complexes, pipelines, production facilities, and exploration and oilfield jobs for production companies.	01/01/1982	Energy, Manufacturing, Natural Resources, Science and Engineering, Transportation	Helipolis, Al Qahirah, Egypt	<a href="https://www.fies-eg.com">https://www.fies-eg.com</a> <a href="https://www.facebook.com/fies-eg">https://www.facebook.com/fies-eg</a>	202 2419 8435
Awa Group	Awa Group is a food ingredients supplier and manufacturing company that focuses on edible additive products.	01/01/1992	Food and Beverage, Manufacturing, Transportation	Cairo, Al Qahirah, Egypt	<a href="https://awa-group.net">https://awa-group.net</a> <a href="https://www.linkedin.com/company/awa-group/">https://www.linkedin.com/company/awa-group/</a>	
ICAPP	ICAPP is a food manufacturing and processing company that supplies a wide range of fresh and frozen fruits and vegetables.	01/01/2004	Food and Beverage, Manufacturing, Education, Energy, Professional Services	Cairo, Al Qahirah, Egypt	<a href="https://www.icapp.com">https://www.icapp.com</a> <a href="https://www.facebook.com/icapp">https://www.facebook.com/icapp</a>	+202 226 92 850
Youthingreen	Youthingreen is a non-profit organization that provides ecological solutions to local environmental problems.	01/01/2013	Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://ytg.eg">https://ytg.eg</a> <a href="https://www.facebook.com/ytg">https://www.facebook.com/ytg</a>	20 2 20801743
Bdver	Bdver is a spectator sports community that specializes in organizing a complete range of scuba diving activities.	01/01/2012	Community and Lifestyle, Natural Resources, Sports	Cairo, Al Qahirah, Egypt	<a href="https://bdver.com">https://bdver.com</a> <a href="https://www.facebook.com/bdver">https://www.facebook.com/bdver</a>	20 110578860
Global Vision	Global Vision is a manufacturing company that develops smart metering and energy grids using innovation and new technologies.	01/01/2019	Other	Cairo, Al Qahirah, Egypt	<a href="https://www.global-vision.me/">https://www.global-vision.me/</a> <a href="https://www.linkedin.com/company/globalvision/">https://www.linkedin.com/company/globalvision/</a>	
Permanent Power Source	PPS is a renewable industry offering solar installation, maintenance, smart irrigation, solar pumping, and electric car chargers.	01/01/2019	Energy, Financial Services, Lending and Investments, Natural Resources, Sustainability	Cairo, Al Qahirah, Egypt	<a href="https://ppsegypt.com/">https://ppsegypt.com/</a> <a href="https://www.facebook.com/PPSEGYPT">https://www.facebook.com/PPSEGYPT</a>	+2010 9755 1344 /
3ifa	3ifa is a company offers solutions and services for construction of fish farms, livestock farms, and the production of agricultural feed.	01/01/2018	Agriculture and Farming, Food and Beverage	Suez, As Suways, Egypt	<a href="https://3ifacompany.wixsite.com/3ifa">https://3ifacompany.wixsite.com/3ifa</a> <a href="https://www.linkedin.com/company/3ifa">https://www.linkedin.com/company/3ifa</a>	201007456328
Pili	Pili biobacterias a sustainable alternative to create renewable inks to replace their toxic, non-biological, and non-recyclable versions. Pili was born from the reunion of a biologist, a designer, and a financial analyst at the biohacker space La Paillasse in Paris and with the creation of the first pen fed by bacteria. Its team is now dedicated to providing the colors from micro-organisms to offer a sustainable alternative to fossil resources.	01/01/2015	Manufacturing, Other, Science and Engineering, Sustainability	Paris, Ile-de-France, France	<a href="http://www.pili.bio">http://www.pili.bio</a> <a href="https://www.facebook.com/pili.bio">https://www.facebook.com/pili.bio</a>	
Algama	Nature's solution for food, Algama's future. Engineering sustainable food solutions for all. As a food-tech company, Algama harvests the potential of algae to create food that's good for both people and the planet. Algama's goal is to feed 10 billion people by 2050, while preserving the planet and offering consumers additional and better choices in foods. Our story After consuming microalgae for numerous reasons, Alwyn and Gaylan concluded that it was a viable solution with the potential to redefine our food system for good. Algama was founded in 2013. World leader in algae-based food. Algama has been the world leader in microalgae food and is proud to have the support of world-class impact investors like Horizons Ventures, Blue Horizon Ventures, CFI Capital, Viginvest, Beyond Impact, Alwyn Capital. All the team is dedicated to innovate and make microalgae a key resource for tomorrow's daily food. Algama team We are focused on bringing microalgae-based foods to market, we are working hard to make our ingredients and products super tasty, affordable and widely available. We are expecting the team and we are looking for talents, innovators and entrepreneurs.	01/01/2013	Biotechnology, Food and Beverage, Science and Engineering	Malakoff, Ile-de-France, France	<a href="https://www.algamafoods.com">https://www.algamafoods.com</a> <a href="https://www.facebook.com/algamafoods">https://www.facebook.com/algamafoods</a>	
Cultimate Foods	Cultimate Foods is a cellular agriculture company. It develops cultivated fat for hybrid all-meat products. It's cultivated fat replicates the structure of animal fat tissue and is used as a "unique technological approach to 3D cultivation that creates the structure of their ingredient and reduces production costs."	01/01/2021	Biotechnology, Data and Analytics, Design, Food and Beverage, Science and Engineering	Berlin, Berlin, Germany	<a href="https://www.cultimatefoods.com">https://www.cultimatefoods.com</a> <a href="https://www.facebook.com/cultimatefoods">https://www.facebook.com/cultimatefoods</a>	

Bioo	Bioo is dedicated to the generation of electricity from nature through singular technologies and patents of its own. The company's business model is based on the development of the R&D, and the design and distribution of sustainable products and proprietary technologies, including the production of electricity through photosynthesis. Currently, the company has a line of installations already on the market and has now focused on the launching of its flagship product for the agricultural industry. It counts with the economic support of the European Union and various private companies from the sectors of energy, biotechnology and finance. Founded in 2015, Bioo has been recognized by the European Parliament as one of the most innovative companies in Europe, has more than 50 international awards and has been featured on renowned media, such as Forbes and CNBC.	27/10/2015	Agriculture and Farming, Biotechnology, Energy, Real Estate, Science and Engineering, Sustainability	Barcelona, Catalonia, Spain	<a href="https://www.https://twitter/https://www.https://www.info@biootech">https://www.https://twitter/https://www.https://www.info@biootech</a>	+34 93730850	
Nextdot	Nextdot develops the synthesis, the production, and the applications of a new generation of semiconductor nanocrystals with controlled size and shape: Quantum Dots (QDs). We are the world leader for the development of nanoplasmets, 3D nanopore Quantum Dots with upgraded properties. They are a spin-off company from a world-class academic lab at EPIC (Paris, France) in nanomaterial research and we benefit from more than ten years of experience in fundamental and applied research on nanomaterials and their technological applications. After four years of intense internal R&D efforts, we have developed unique know-how for the production of colloidal Quantum Dots and Nanoplasmets. Our proprietary materials with controlled shape and composition enable us to create lighting displays, lighting, energy storage, detectors, and bio-imaging. Nextdot gathers young, enthusiastic, top-level scientists and a board of senior executives with very strong track records on company management and innovation leadership.	03/01/2016	Software, Sustainability	Romainville, Ile-de-France, Fr	<a href="http://www.nextdot.fr/">http://www.nextdot.fr/</a>	<a href="https://www.linkedin.com/company/33892976501">https://www.linkedin.com/company/33892976501</a>	
DevEnR	DevEnR is an independent producer of semiconductors for renewable energies.	01/01/2019	Sustainability	BVClères, Languedoc-Roussil	<a href="https://devenr.fr/">https://devenr.fr/</a>	<a href="https://www.contact@devenr.fr">https://www.contact@devenr.fr</a> 04 48 20 10 54	
Glowee	Glowee is engaged in the development of biological light systems using the natural properties of bioluminescent marine organisms. Requiring neither electricity nor installation infrastructure, these systems are built by encoding particular genes in symbiotic bacteria.	01/01/2014	Biotechnology, Consumer Electronics, Energy, Hardware, Science and Engineering, Sustainability	Paris, Ile-de-France, France	<a href="http://www.glowee.com/">http://www.glowee.com/</a>	<a href="https://www.linkedin.com/company/weloveglowee">https://www.linkedin.com/company/weloveglowee</a>	
Altar	Altar is a biotechnology company specializing in the field of automated fluids serving the industry. They develop and operate proprietary technologies that bring microbes to performance suitable for utilization in commercial applications. Their customers use microorganisms to produce food, feed, flavors & fragrances, cosmetics, fuels, chemicals or health products. The company's platform is suitable for the cultivation of suspensions of prokaryotic and eukaryotic unicellular organisms under aerobic and anaerobic conditions. The Altar's technology harnesses natural selection and suits to the improvement of non-genetically modified organisms. It was founded in 2017 and is based in Vélizy, Ile-de-France, France.	01/01/2017	Sustainability	Vélizy, Ile-de-France, France	<a href="http://www.altar.bio">http://www.altar.bio</a>	<a href="https://www.contact@altar.bio">https://www.contact@altar.bio</a> +33 (0)1 6091 7888	
Kynda	Kynda produces vegan foods and mycelium using accessible biotechnology for meat alternatives. They provide services for agri food companies, consumer packaged goods manufacturers, and tech companies.	01/01/2019	Biotechnology, Food and Beverage, Science and Engineering	Jelmstorf, Niedersachsen, Ge	<a href="https://www.kyndatech.com/">https://www.kyndatech.com/</a>	<a href="https://www.linkedin.com/company/kyndatech/">https://www.linkedin.com/company/kyndatech/</a>	
Arkyne Technologies	Arkyne Technologies specializes in the innovation of renewable energies, telecommunication hardware, and software development. Right from the heart of Barcelona, Arkyne stands as a pioneering company in the sector. Arkyne Technologies is considered to be the leading company in the sector, producing electricity from Biomass in commercial scale. Arkyne has a team of specialists experienced in the areas of nanotechnology, industrial and mechanical engineering; creative, distinctive and entrepreneurs. Arkyne was established in 2015 and is based in Barcelona, Spain.	01/01/2015	Biotechnology, Energy, Hardware, Science and Engineering, Sustainability	Barcelona, Catalonia, Spain	<a href="http://www.ahttps://twitter.com/arkynethttps://www.linkedin.com/company/1049869/">http://www.ahttps://twitter.com/arkynethttps://www.linkedin.com/company/1049869/</a>		
Episome Biotech	Episome is a biotechnology company that was founded as a research & development laboratory. Episome Biotech focuses on industrial enzyme technologies. They aim to provide sustainable and environment friendly products for biogas, textile, leather, paper, starch, detergent, rubber and biofuel industries.	01/01/2014	Sustainability	Göteborg, Kocaeli, Turkey	<a href="http://www.https://twitter/https://www.https://www.info@episomebiotech">http://www.https://twitter/https://www.https://www.info@episomebiotech</a>	90 262 678 72 56	
Mascara	Mascara is an industrial product line of seawater and brackish water solar-powered desalination plants with a daily production capacity range. It is a renewable resource that develops through industrialized reverse osmosis desalination technology and photovoltaic solar energy.	01/01/2014	Energy, Food and Beverage	Gallainville, Centre, France	<a href="https://www.cosmosunwater.com/solutions/en">https://www.cosmosunwater.com/solutions/en</a>	332 37 34 30 75	
Biogenetics	Biogenetics develops technologies for the practical application of genomics, proteomics, metabolomics and other omic sciences, with focus on agrifood applications, farming, and biodiversity preservation.	01/01/2015	Engineering	Vilava, Asturias, Spain	<a href="http://www.bhttps://twitter.com/genomichttps://www.info@biogenetics">http://www.bhttps://twitter.com/genomichttps://www.info@biogenetics</a>	e902 110 368	
Wastepresso	Wastepresso produces bioplastic compounds and products from spent coffee grounds. They are producing bio raw materials such as disposable and reusable cups, straws, flower pots, and spoons. They manage the microwave of the companies that produce coffee waste at their headquarters, hotels, cafes, offices, and restaurants regularly.	01/01/2020	Sustainability	Istanbul, Istanbul, Turkey	<a href="https://www.https://twitter/https://www.https://www.linkedin.com/company/strawinn/">https://www.https://twitter/https://www.https://www.linkedin.com/company/strawinn/</a>		
Bluphage	Bluphage is a biotechnology company that specializes in environmental testing solutions. It has developed microbiological water quality testing products that detect bacteriophages as indicators of viruses that cause serious waterborne diseases.	01/01/2016	Biotechnology, Natural Resources, Science and Engineering	Barcelona, Catalonia, Spain	<a href="https://www.https://twitter.com/bluphagehttps://www.info@bluphage.com">https://www.https://twitter.com/bluphagehttps://www.info@bluphage.com</a>		
Paintec S.L	Paintec is a drone operation that provides services in precision agriculture, industrial monitoring, and control work, response to emergencies, cartography, and multimedia. Moreover, they provide training and consultancy services.	01/01/2017	Agriculture and Farming, Food and Beverage, Hardware, Science and Engineering, Software	Zaragoza, Aragon, Spain	<a href="https://www.paintec.tech/">https://www.paintec.tech/</a>	<a href="https://www.https://twitter/https://www.info@paintec.es">https://www.https://twitter/https://www.info@paintec.es</a> 976 671 834	
Good Seed Ventures	Good Seed Ventures capital firm is dedicated to enabling the production of safe and nutritious food for a growing population. We leverage our capital and industry specific knowledge to accelerate the transition to a sustainable food system. Granting value-adding partnerships that support groundbreaking food entrepreneurs is what we thrive for. Our ambition is to foster the development and commercialization of industry transforming food solutions so that everyone has access to delicious and healthy food.	01/01/2018	Agriculture and Farming, Food and Beverage, Health Care	Rheine, Nordrhein-Westfalen	<a href="https://goodshttps://twitter.com/goodseedhttps://www.info@goodseedventures.com">https://goodshttps://twitter.com/goodseedhttps://www.info@goodseedventures.com</a>		
Solutions Ecolime	Solutions Ecolime develops systems that use unused water and energy sources to achieve savings while maintaining human comfort. BioSeflight is a solution for turbid (opaque) liquid photo-decontamination systems using eco-friendly ultraviolet (UV-C) technology. At BioSeflight we believe there is a better and healthier way to decontaminate and prolong product life without using preservatives or thermalization. Our technology is greener and more effective alternative to preservatives and expensive energy-consuming heat treatments. BioSeflight does not cause thermal degradation and delivers low energy expenditure and superior decontamination.	01/01/2017	Sustainability	Saint constant, Auvergne, Fr	<a href="https://ecolime.ca/home">https://ecolime.ca/home</a>	<a href="https://www.info@ecolime.ca">https://www.info@ecolime.ca</a> +1 438 887 8331	
BioSeflight		11/11/2017	Energy, Food and Beverage, Sustainability	Orvilleans, Centre, France	<a href="https://www.bioseflight.co.ukhttps://www.https://linked/contact@bioseflight">https://www.bioseflight.co.ukhttps://www.https://linked/contact@bioseflight</a>	+33 2 38 73 64 33	
Tebrio	At the rate that the world is growing, we'll all have enough food to feed 50% of our future population by 2050 and introducing novel proteins into the food value chain that are rich in amino acids and use less water and arable land is the only solution forward for mankind and the planet, which is why, in 2014, Adriana Casillas and Sabas de Diego founded Tebrio, the world's leading carbon-negative, zero-residue insect biotechnology company, which tackles climate change and the world food crisis by breeding and transforming rich amino acid mealworms into three main co-products: (i) sustainable premium fish, pet and animal feed; (ii) biofertilizer for plant nutrition that acts as a natural pest repellent; (iii) chitosan to manufacture biodegradable plastic that dissolves in water. Our carbon negative pilot farm produces 500 tons of co-products a year, does not emit greenhouse gases like ammonia or methane, uses 98% less water, is 90% less energy intensive than other animal and plant protein sources, and is the only company in our industry in Spain that has received an ISO9001 certification, which guarantees the quality of our products. Thanks to our current operations, we have secured an undisclosed Series A round, which we are using to develop a EUR 50 million insect farm that will take us from a 500 ton to a 100,000 tons production of co-products a year and will be the largest of its kind in the world. Company Key Metrics: ACWebio has 8 industrial patents in 150 countries. ACWebio's operations are carbon negative, zero residue, and we do not emit greenhouse gases like ammonia or methane. ACWith the same amount of natural resources, we are able to produce 500% more protein for fishmeal and animal feed than plant protein and livestock farms. ACOur protein for fish and animal feed is 90% digestible, 70% protein, high in essential amino acids and unsaturated fat. ACWebio was the first certified producer in the world of mealworm protein for fish and animal feed and biofertilizer for plant nutrition. ACOur tech powered biofertilizer has 10x more nutrients than other organic fertilizers and thanks to its properties, acts as a natural pest repellent. ACWe are the only Spanish company in our industry with an ISO9001 certification. ACWe are building the world's largest insect farm, which will produce 300,000 tons of co-products a year for animal feed and plant fertilization. ACWe use big data and 4.0 industries to industrially produce and control the Tebriobio Molitor insect.	01/01/2014	Agriculture and Farming, Biotechnology, Food and Beverage, Health Care, Science and Engineering	Dorlinos De Salamanca, Cast	<a href="https://tebriohttps://www.https://www.info@tebrioco">https://tebriohttps://www.https://www.info@tebrioco</a>	+34 932 048 049	
New Gluten World	New Gluten World (NGW) is a company set up by the University of Foggia, Molino Casillo SPA, a world leader in the transformation of grain, and the lead researcher Carmen Lamacchia. It aims to globally promote a gluten-friendly methodology that will displace current gluten free approaches to the celiac disease preparation of cereal-based foodstuffs. The methodology is patent protected in 105 countries worldwide. NGW's mission is to break down the nutritional divide, that discriminates celiac patients (who are intolerant and sensitive to gluten) against healthy individuals. Enabling milling companies and producers worldwide to detoxify gluten through the proprietary methodology will progressively overcome the traditional gluten free products and make all individuals part of the gluten friendly revolution.	01/01/2015	Agriculture and Farming, Food and Beverage, Health Care	Foggia, Puglia, Italy	<a href="http://www.newglutenworldhttps://www.https://www.info@newglutenw">http://www.newglutenworldhttps://www.https://www.info@newglutenw</a>	809172530	
Spark e-Fuels	Spark e-Fuels is a carbon-neutral aviation fuel provider that produces sustainable aviation fuels from renewable energy, air, and water with full integration and modularization, allowing users to obtain sustainable e-fuels at scale.	01/01/2021	Energy, Hardware, Manufacturing, Science and Engineering	Berlin, Berlin, Germany	<a href="https://www.sparkfuels.com">https://www.sparkfuels.com</a>	<a href="https://www.linkedin.com/company/sparkfuels">https://www.linkedin.com/company/sparkfuels</a>	
Seabex	Within Seabex, we have developed a platform that collects all the data relating to our clients' parcels necessary for calculations of irrigation needs, suggests, thanks to artificial intelligence, the appropriate irrigation decisions. We have also developed IoT stations that facilitate data collection and the automation of farming activities.	09/03/2020	Agriculture and Farming, Artificial Intelligence, Data and Analytics, Internet Services, Natural Resources, Science and Engineering, Software	Orvilleans, Centre, France	<a href="http://seabex.https://twitter/https://www.facebook.com/contact@seabex">http://seabex.https://twitter/https://www.facebook.com/contact@seabex</a>	3323869069	
Husk Ventures	Generate new revenue streams for rural communities by upcycling rice husk to create sustainable products that contribute to a circular economy. Husk Ventures aims to increase the incomes of rice farmers, A&A and rural communities with access to innovative technologies and capacity building to convert rice husk into valuable products for local and international markets. The unique characteristics of rice husk (high lignin and silica content) make it an ideal material that benefits from being strong, fireproof, mould, and insect resistant. Some innovations exist in the market to create alternatives to wood by mixing rice husk with plastic or natural resins to create furniture or construction materials using similar technologies to wood plastic composites (WPC). Creating products using Rice Husk Composites is an opportunity to reduce deforestation and plastic consumption.	01/01/2017	Engineering, Sustainability	Barcelona, Catalonia, Spain	<a href="http://www.https://twitter.com/huskenhttps://www.linkedin.com/company/huskenventures/">http://www.https://twitter.com/huskenhttps://www.linkedin.com/company/huskenventures/</a>		
AQUADAR	Watertech that generates and transforms water data into actionable information (AQUADAR) and solutions (DIGITAL TWiNs and COMPACT WTPs & WWTPs). This project has been a MIT Water Innovation Prize finalist and Galileo Master regional winner. It currently holds the H2020 Green Deal Seal of Excellence (awarded by the European Commission) and the INN0VATIVE SME Seal (awarded by the Spanish Ministry of Science and Innovation). In 2022, it was selected among the 35 European organizations by ET - European Institute of Innovation and Technology for the Innovative Scale Community Water Scarcity programme. Since 2022, he is a member of the Board of Directors of PTEA, a public-private cooperation network for the promotion of R&D in the water sector. It currently has 57 associated entities, representing more than 450 organizations. Working hard on Emerging Contaminants Detection based on advanced biosciences techniques and deeptech.	24/12/2016	Software, Sustainability	Baracaldo, País Vasco, Spain	<a href="https://www.https://twitter/https://www.https://www.info@aquadar.net">https://www.https://twitter/https://www.https://www.info@aquadar.net</a>		
Heimladen	Heimladen is a renewable energy source that drives human mobility. They offer a platform that acts as a real estate partner, controls the charging infrastructure, and takes care of project planning while keeping costs low, and enabling tenants.	01/01/2020	Energy, Hardware, Science and Engineering, Sustainability	Randersacker, Bayern, Germ	<a href="https://heimladen.de/">https://heimladen.de/</a>	<a href="https://www.info@heimladen.de">https://www.info@heimladen.de</a> +49 (0) 931 663 912	
Articae	Articae is a provider of technological solutions and services for optimizing the energy performance of industrial air conditioning and refrigeration systems.	01/01/2020	Energy, Hardware, Manufacturing, Science and Engineering, Sustainability	Valadolid, Castilla y Leon, Sp	<a href="https://articaehttps://twitter.com/articae1https://www.info@articae.com">https://articaehttps://twitter.com/articae1https://www.info@articae.com</a>		
Hyggefoods	Hyggefoods uses food technology to produce a new generation of healthy, nutritious, and delicious foods enriched with plant micronutrients. With its sustainable food management and zero waste generation systems, it conducts extensive R&D studies on unconventional food processes in the food industry. It aims to produce plant-based alternatives for all animal products at affordable prices. It produces 100% high quality plant-based, 100% no meat or animal origin components, produced without genetic engineering. Moreover, Hyggefoods actively support the protection of animals, the environment and its natural resources and women empowerment through supporting women's work. Hyggefoods have sold more than 500 000 units in Turkey in the amount of 1 year, and has a partner in the UK. It products are innovative and in a increase of demand. The company's first products are the new generation casuar Hyggefish and Vegovo hemp seed protein powder. <a href="http://www.hyggefood.com">www.hyggefood.com</a> <a href="http://www.vegevoop.com">www.vegevoop.com</a>	04/04/2018	Science and Engineering	Istanbul, Istanbul, Turkey	<a href="https://hyggehttps://twitter/https://www.https://www.hello@hyggefoods">https://hyggehttps://twitter/https://www.https://www.hello@hyggefoods</a>	+90 502 2551559	
Earthbi	Earthbi combines the virtual world through the creation of a special token utility for the green sector called ERA with the production of polymers with characteristics of high biodegradability and quality and value. The project, in essence, is aimed at the diffusion of innovative biopolymers, generated thanks to proprietary industrial property rights. Earthbi project will also have use of the full traceability of the production chain thanks to the use of blockchain technology in order to guarantee customers and consumers the qualities and characteristics declared.	01/01/2018	Sustainability	Terrilmi, Molise, Italy	<a href="https://earthbihttps://www.https://www.info@earthbi.io">https://earthbihttps://www.https://www.info@earthbi.io</a>	+39 0874 1896641	
Ekiom	Ekiom is a platform for energy efficiency, savings and sustainability solutions. The company offers hardware and software, surveillance and analytical solutions. They control, plan and conserve energy to improve efficiency, sustainability and economy.	01/01/2014	Software, Sustainability	Erandio, País Vasco, Spain	<a href="https://www.ekiom.com">https://www.ekiom.com</a>	<a href="https://www.https://twitter/https://www.info@ekiom">https://www.https://twitter/https://www.info@ekiom</a>	+34 946 025 596
SunBrush Mobil	SunBrush Mobil designs, manufactures, and tests mobile cleaning equipment for solar power plants.	01/01/2014	Sustainability	Lachen, Bayern, Germany	<a href="https://www.sunbrushmobil.com/">https://www.sunbrushmobil.com/</a>	<a href="https://www.info@sunbrushmobil49">https://www.info@sunbrushmobil49</a> (0)8332 24 343	
Sixsenso	Sixsenso is a biotechnology company that provides environmental solutions and water monitoring worldwide.	01/01/2019	Biotechnology, Natural Resources, Science and Engineering, Sustainability	Castelldefels, Catalonia, Spai	<a href="https://www.https://twitter.com/sixsensohttps://www.info@sixsenso">https://www.https://twitter.com/sixsensohttps://www.info@sixsenso</a>	+34 93 554 2230	
Syvalgae	Syvalgae is developing technology for cultivating microalgae including biotechnological and engineering solutions. They offer new ideas on microalgal research and innovation in parallel with engineering technology.	01/01/2020	Biotechnology, Energy, Science and Engineering, Sustainability	Reggio Nell Emilia, Emilia-Ro	<a href="https://www.syvalgae.com">https://www.syvalgae.com</a>	<a href="https://www.https://twitter/https://www.info@syvalgae">https://www.https://twitter/https://www.info@syvalgae</a>	+39 349 283 62 18
FoodMicroTeam	FoodMicroTeam is a biotechnology research group that provides food analysis, fermentation process management, and product development.	01/01/2014	Engineering	San Casciano Val Di Pesa, Tos	<a href="https://foodmicrohttps://twitter/https://www.https://www.info@foodmicro">https://foodmicrohttps://twitter/https://www.https://www.info@foodmicro</a>	+39 055 21 36 79	

## **1.5 Demonstrators and practices**

## WEFE4MED D1.1 Report

Form: Nexus Demonstrations and practices

Name	Fadi, Comair
Email	f.comair@cyi.ac.cy
Organization	The Cyprus Institute
Title/Name of the Demonstration/practice	Platform for Research, Observation and Technological Applications in Solar Energy
Country	
Country	Cyprus
Location (City)	Limassol
WEFE Nexus Dimensions	Water, Energy
Keywords	Reserch Facility Pilot ,Solar Power, Desalination
Website/ webpage if any	<a href="https://proteas.cyi.ac.cy/">https://proteas.cyi.ac.cy/</a>
Recorded video link / YouTube link if any	<a href="https://www.youtube.com/watch?v=SWeTCvqmLYM">https://www.youtube.com/watch?v=SWeTCvqmLYM</a>
Institution(s) involved in the development of the practice	Cyprus
Linked to funded project ( check for Yes, leave unchecked if No)	true
Please specify the project name, grant number and funding programme	Several
Funding/finance received	>5M€

<p>Descriptive summary</p>	<p>The PROTEAS Facility (Platform for Research Observation and Technological Applications of Solar Energy) is a major infrastructure for research, development and testing of technologies relating to concentrated solar power (CSP) and solar seawater desalination .PROTEAS offers a unique environment for testing in realistic coastal - island conditions solar technologies, in particular for synergizing electricity production and solar desalination.</p>
<p>Background</p>	<p>Cyprus is a small island state, with an isolated electricity grid, which relies almost exclusively on imported heavy fuel oil for its electricity production. Also, Cyprus' semi-arid climate necessitates seawater desalination to provide adequate fresh-water resources to its population. Solar energy is an appealing source of energy to power desalination, especially since water scarcity and high solar irradiation coincide in many regions in the Mediterranean.</p>
<p>Aims and Goals</p>	<p>PROTEAS mission is to pursue research, development of solar technologies, as well as testing of renewable Energy Sources with emphasis on Concentrating Solar Thermal (CST), Thermal Energy Storage (TES) and Thermal Desalination of seawater (DSW) for bridging the gap between fundamental research and industrial needs</p>

<p>Actions taken to achieve objectives</p>	<p>The first major experiment taking place at the PROTEAS facility concerns the development of a pilot/experimental facility for the co-generation of electricity and desalinated seawater from CSP.</p> <p>Specifically, the experimental plant consists of a heliostat central-receiver system for solar harvesting, thermal energy storage in molten salts ("solar salt", 60-40% b.w. of NaNO<sub>3</sub>-KNO<sub>3</sub>), followed by a Rankine cycle for electricity production and a Multiple-Effect Distillation (MED) unit for seawater desalination. These technologies were selected after an extensive technical and economic study lead by The Cyprus Institute, which concluded that they are the most suitable for the particular conditions of grid-isolated island communities in general and Cyprus in particular. The experimental plant is meant to verify the concept, modeling and component behavior of a prototype design of a commercially viable plant</p>
<p>Main Achievement to date (related outcomes)</p>	<p>The Cyprus Institute is one of the few institutions worldwide researching Concentrated Solar Thermal technology, which is ideally adapted to the sunny climate of the island. The first major experiment (CSP-DSW) conducted at the facility is testing the Cogeneration of Electricity and Desalinated Sea Water using Concentrated Solar Power.</p> <p>PROTEAS is also mobilizing civic engagement, corporate social responsibility, and green innovation on the island worldwide with the "Adopt a Heliostat Scheme". This is an open invitation to sponsor one or more of Cyl's high-yield heliostats and help advance research in renewable energy sources and materialize the vision of the Nexus approach. PROTEAS is continuously expanding its vision for collaborative scientific excellence by has participating array of EU local projects and is continuously cultivating regional and international collaborations to expand its effort of scientific research excellence and initiating change on a socioeconomic level.</p>
<p>Image Upload</p>	
<p>Starting Date</p>	<p>01-Oct-2015</p>

End Date (if any)	
Environmental Sustainability assessment	5 - ★ ★ ★ ★ ★
Social Sustainability	3 - ★ ★ ★
Financial Sustainability	3 - ★ ★ ★
Technological Sustainability	5 - ★ ★ ★ ★ ★
Institutional Sustainability	5 - ★ ★ ★ ★ ★
Please select all the SDGs related to your demonstrator	(6) Clean Water and Sanitation, (7) Affordable and Clean Energy, (13) Climate Action
Added Time	23-May-2023 15:18:22
Referrer Name	
Task Owner	radwan.amro@gmail.com

Name	Margot, Mrad
Email	margot.mrad@remerforearth.com
Organization	REMER
Title/Name of the Demonstration/practice	Agriculture
Country	
Country	Lebanon
Location (City)	Zgharta-North Lebanon
WEFE Nexus Dimensions	Water
Keywords	sustainable, ecofriendly, soil biodiversity, health, profit

Website/ webpage if any	<a href="http://www.remerforearth.com">www.remerforearth.com</a>
Recorded video link / YouTube link if any	
Institution(s) involved in the development of the practice	Agrytech
Linked to funded project ( check for Yes, leave unchecked if No)	true
Please specify the project name, grant number and funding programme	Agritech accelerator program special edition, KFW with UNDP
Funding/finance received	10-100 k€
Descriptive summary	We produce a bio-stimulant composed of necessary micro-organisms that improve soil fertility and water retention, which leads to sustainable agriculture and have a positive impact on health, environment and economic.
Background	The sustainability is a core part of the solution offered by REMER. REMER restores soil biodiversity which can lead to better crop growth and higher yields up to 30% with a decrease in the use of chemical fertilizers up to 70%.
Aims and Goals	We are working to produce a probiotic for livestock and a bio fertilizer for hydroponic. But there are a big lack of access to labs and resources in Lebanon. So, REMER plans to grow their business through research and development, expand the team and build a well-equipped lab. In 2026 we should be ready to treat rivers and lacks with the beneficial microorganisms technique.




<p>Actions taken to achieve objectives</p>	<p>The sustainability is a core part of the solution offered by REMER. The company focus on educating farmers and consumers about the benefits of sustainable agriculture and the use of effective microorganisms. This include providing training and resources on sustainable farming practices, and promoting the environmental and health benefits of using effective microorganisms in agriculture. The company establish a good relationship to this community by providing them with the necessary training and resources, and by listening to their feedback and concerns. This can help to build trust and credibility with the community, and to ensure that the solutions offered by REMER are meeting their needs.</p>
<p>Main Achievement to date (related outcomes)</p>	<p>We have already sensitized 180 farmers in 7 villages of Akkar North Lebanon in collaboration with COOPs. 99% of our customers received satisfactory results, verifying its effectiveness in the field. The use of REMER increased their yield in terms of quantity and quality by at least 30% while reducing the use of chemical treatments up to 70%. In 6 months, we reach 237 small farmers over all Lebanon. Currently, REMER is the subject of a thesis in Lebanese university and Saint Joseph university to theoretically validate its effectiveness.</p>
<p>Image Upload</p>	<div data-bbox="846 1283 954 1392" data-label="Image"> </div> <p data-bbox="818 1402 987 1436">Untitled.png</p>
<p>Starting Date</p>	<p>15-May-2019</p>
<p>End Date (if any)</p>	
<p>Environmental Sustainability assessment</p>	<p>5 - ★ ★ ★ ★ ★</p>
<p>Social Sustainability</p>	<p>5 - ★ ★ ★ ★ ★</p>
<p>Financial Sustainability</p>	<p>5 - ★ ★ ★ ★ ★</p>

Technological Sustainability	5 - ★ ★ ★ ★ ★
Institutional Sustainability	4 - ★ ★ ★ ★
Please select all the SDGs related to your demonstrator	(1) No Poverty, (2) Zero Hunger, (3) Good Health and Well-being, (6) Clean Water and Sanitation, (7) Affordable and Clean Energy, (8) Decent Work and Economic Growth, (11) Sustainable Cities and Communities, (12) Responsible Consumption and Production, (13) Climate Action, (14) Life Below Water, (15) Life on Land
Added Time	01-May-2023 20:41:21
Referrer Name	
Task Owner	radwan.amro@gmail.com

Name	Hanan, Ismail
Email	ismailhanan199@gmail.com
Organization	GARBALISER
Title/Name of the Demonstration/practice	Founder & CEO
Country	
Country	Lebanon
Location (City)	Baalback-Hermel
WEFE Nexus Dimensions	Water, Food, Ecosystems
Keywords	agriculture,fertilizer,organic,sustainable,circular economy
Website/ webpage if any	<a href="http://www.garbaliser.com">www.garbaliser.com</a>
Recorded video link / YouTube link if any	<a href="https://youtu.be/OxEnyBida58">https://youtu.be/OxEnyBida58</a>

Institution(s) involved in the development of the practice	NA
Linked to funded project ( check for Yes, leave unchecked if No)	true
Please specify the project name, grant number and funding programme	CleanEnergy-Berytech37k/Watermedyin 10K/Halaqa-makesense 10K/ WEEL-Berytech 27K
Funding/finance received	100-500k€
Descriptive summary	GARBALISER specializes in the manufacture of high-quality natural fertilizer through the use of modern fermentation technology. It supplies farmers with the most efficient and environmentally friendly fertilizer, as well as installing cutting-edge fermentation facility across different regions to collect green leftovers, while adhering to healthy environmental practices, as we envision a sustainable world through promoting ecological fertilizing methods.
Background	Garbaliser tackles two main problems that are waste management issue that causes pollution and we mainly focus on the green leftovers as they consist over 50% of the total amount of waste. In addition to reduce the excessive use of chemical fertilizers that cause harm for soil, water, air, and human health, as there is lack in finding an alternative that is healthy and at a reasonable cost.

<p>Aims and Goals</p>	<ul style="list-style-type: none"> <li>- Contribute in the reduction of pollution</li> <li>- Benefit from leftovers</li> <li>- Raise people's awareness about the importance of sorting from source and eat healthy food</li> <li>- Treat the waste in an well manner</li> <li>- Grow healthy crops while reducing the harm on air,water,soil,and human health</li> <li>- Boost the economic situation</li> <li>- Create job opportunities</li> <li>- Benefit from methane gas to generate energy</li> <li>- Raise awareness about the importance of using organic fertilizers</li> <li>- Use re-used packaging to boost environmental practices</li> <li>- Produce high-quality local product to support local products</li> <li>- Elevate the skills of the employees as we are located in rural area</li> </ul>
<p>Actions taken to achieve objectives</p>	<ul style="list-style-type: none"> <li>- Develop a clear mission and vision</li> <li>- State our core values and work on them</li> <li>- Set SMART Goals</li> <li>- Develop a strategic plan</li> <li>- Allocate resources effectively</li> <li>- Build effective partnerships</li> <li>- Foster a culture of accountability</li> <li>- Conduct thorough researches</li> <li>- Build strong relationships with customers and suppliers</li> <li>- Continuously monitor and evaluate performance</li> <li>- Diversify revenue streams</li> <li>- Develop sustainable practices</li> <li>- Invest in technology</li> </ul>
<p>Main Achievement to date (related outcomes)</p>	<ul style="list-style-type: none"> <li>- Reach 200+ households</li> <li>- Reach 10+ grocery shops</li> <li>- Reach 500+ farmers</li> <li>- Factory started operating</li> <li>- Receive ISO certification</li> <li>- Open new facility in Bhatfine area</li> <li>- Produce 2 product one for flowers and the other for all types of products</li> <li>- Receive patent for system</li> <li>- Hire staff and work on boosting their skills</li> </ul>

Image Upload	 76959ad9-6822-4389-8b89-ca610d590d43.jfif
Starting Date	11-Apr-2023
End Date (if any)	11-Jan-2070
Environmental Sustainability assessment	5 - ★ ★ ★ ★ ★
Social Sustainability	4 - ★ ★ ★ ★
Financial Sustainability	4 - ★ ★ ★ ★
Technological Sustainability	4 - ★ ★ ★ ★
Institutional Sustainability	4 - ★ ★ ★ ★
Please select all the SDGs related to your demonstrator	(3) Good Health and Well-being, (6) Clean Water and Sanitation, (7) Affordable and Clean Energy, (8) Decent Work and Economic Growth, (11) Sustainable Cities and Communities, (12) Responsible Consumption and Production, (13) Climate Action, (15) Life on Land
Added Time	29-Apr-2023 00:21:50
Referrer Name	
Task Owner	radwan.amro@gmail.com

Name	Hasan, Jaafar
Email	hasan.jaafar@yy-regen.com
Organization	YY ReGen
Title/Name of the Demonstration/practice	Co-Founder and COO

Country	
Country	Lebanon
Location (City)	Beirut
WEFE Nexus Dimensions	Energy
Keywords	ReGen-R8 , Renewable Energy , Solar Energy, Product Development
Website/ webpage if any	<a href="https://yy-regen.com/">https://yy-regen.com/</a>
Recorded video link / YouTube link if any	
Institution(s) involved in the development of the practice	Berytech - Smart ESA
Linked to funded project ( check for Yes, leave unchecked if No)	true
Please specify the project name, grant number and funding programme	ReGen-R8, 137K, Cleanergy and Food System Challenge
Funding/finance received	100-500k€
Descriptive summary	Our cloud-based AI-enabled platform for on-demand renewable energy (Energy-as-a-Service) in the Middle East empowers farmers to implement efficient sustainable agriculture practices by providing clean energy, minimizing water use, and reducing the carbon footprint of agriculture, making it an environmentally sustainable solution for the agriculture industry.
Background	ReGen-R8 was created to solve one of the most pressing and protracted issues the Lebanese community has been facing for years in the most vital sector, the power sector, and that has drained billions of dollars in losses and hindered any prospects of economic prosperity.






<p>Aims and Goals</p>	<p>(em)Powering Farmers: We provide easy-to-access, easy-to-manage and easy-to-afford clean energy to farming communities – allowing them to make a huge stride towards sustainability and reduction of their carbon footprint with no sacrifice to their livelihood.</p> <p>Improving farmers' livelihoods: Our ReGen-R8 units have enabled our farmers to optimize their irrigation processes hence conserving water, implementing cold storage to reduce crop wastage &amp; set up food processing facilities to increase the value of their products in the retail market.</p> <p>Conserve &amp; Restore Ecosystems: We contribute both directly and via our partnership with the farmers to helping the environment &amp; ecosystems - our direct impact is in the replacement of diesel generators - each 15 kW R8- unit results in 20 tons of carbon dioxide emissions reduction with our 8 units in operation, we will be contributing to 160 tons reduction in 2023 alone.</p>
<p>Actions taken to achieve objectives</p>	<p>We are constantly looking for innovative and novel ways to reduce the environmental impact of our operations, and we rely on cutting-edge technologies like IoT and AI to monitor and optimize energy usage. We also prioritize transparency about our environmental impact, disclosing information about our carbon footprint, water usage, and other environmental metrics. Community engagement is a crucial aspect of sustainability, and we engage with communities through education and outreach, encouraging sustainable practices in their personal lives.</p> <p>We are committed to ethical sourcing, sourcing materials and products in a way that minimizes their environmental impact. We also prioritize environmental responsibility by enabling the use of renewable energy and contributing to the reduction of carbon emissions.</p> <p>Finally, we prioritize accessibility, by removing both the financial and technical barriers to implementing renewable energy solutions.</p>

<p>Main Achievement to date (related outcomes)</p>	<p>Since our launch in 2021, we were able to create tens of jobs for qualified Lebanese individuals where most of whom are residents of rural areas with limited access to opportunities, especially in light of the economic recession. We worked on providing basic training for hundreds of farmers on the benefits of resorting to renewable energy and the potential it has in eliminating energy security threats with the purpose of raising awareness and maximizing the adoption and retention rates. With eight units, we were able to save at least 20 tons of CO2 emissions thus far, and where we plan to have at least 125 tons of CO2 emissions saved by the end of 2023 when all eight units are operating.</p>
<p>Image Upload</p>	<div data-bbox="846 768 954 877" data-label="Image"> </div> <p>YY_ReGen_Logo.png</p>
<p>Starting Date</p>	<p>24-May-2021</p>
<p>End Date (if any)</p>	
<p>Environmental Sustainability assessment</p>	<p>5 - ★ ★ ★ ★ ★</p>
<p>Social Sustainability</p>	<p>5 - ★ ★ ★ ★ ★</p>
<p>Financial Sustainability</p>	<p>4 - ★ ★ ★ ★</p>
<p>Technological Sustainability</p>	<p>4 - ★ ★ ★ ★</p>
<p>Institutional Sustainability</p>	<p>4 - ★ ★ ★ ★</p>
<p>Please select all the SDGs related to your demonstrator</p>	<p>(2) Zero Hunger, (5) Gender Equality, (7) Affordable and Clean Energy, (12) Responsible Consumption and Production, (13) Climate Action</p>
<p>Added Time</p>	<p>18-Apr-2023 22:59:34</p>
<p>Referrer Name</p>	



Task Owner	radwan.amro@gmail.com
Name	Reine, Metlej
Email	reinemetlej60@gmail.com
Organization	BIOwayste
Title/Name of the Demonstration/practice	Biodigester
Country	
Country	Lebanon
Location (City)	Beirut
WEFE Nexus Dimensions	Energy
Keywords	waste - energy - biogas - biofertilizer - sustainability
Website/ webpage if any	<a href="https://www.biowayste.com/">https://www.biowayste.com/</a>
Recorded video link / YouTube link if any	<a href="https://youtu.be/m1kCcUMImO8">https://youtu.be/m1kCcUMImO8</a>
Institution(s) involved in the development of the practice	NA
Linked to funded project ( check for Yes, leave unchecked if No)	false
Please specify the project name, grant number and funding programme	
Funding/finance received	10-100 k€


<p>Descriptive summary</p>	<p>BIOwayste is a machine that converts organic waste into cooking gas and fertilizer. Simply add your organic waste to the machine, and it will produce biogas for cooking and liquid fertilizer for your plants. The machine is easy to use as it's fully automated and can save you money on energy costs and waste disposal fees. It is also environmentally friendly and comes in different sizes to suit your needs.</p>
<p>Background</p>	<p>1- Waste Management: Organic waste is a major contributor to the waste stream in many communities and it creates numerous environmental and health hazards. BIOwayste provides a solution for converting organic waste into a useful resource, reducing the amount of waste that ends up in landfills.</p> <p>2- Energy: Traditional gas is often expensive and has negative impacts on the environment. BIOwayste provides biogas that is renewable, low-cost, and emits fewer greenhouse gases.</p> <p>3- Fertilizer Production</p>
<p>Aims and Goals</p>	<p>BIOwayste aims to provide a sustainable solution for organic waste management and energy production by reducing waste, providing a renewable source of cooking gas, producing liquid fertilizer, promoting convenience and accessibility, offering scalability, promoting environmental sustainability, and ensuring economic viability. Its goals are aligned with the principles of sustainability, circular economy, and environmental stewardship.</p>
<p>Actions taken to achieve objectives</p>	<p>To achieve its objectives, BIOwayste has taken actions such as investing in research and development, setting up a manufacturing and distribution network, launching educational campaigns, forming partnerships and collaborations, committing to continuous improvement and implementing marketing and sales strategies. These actions aim to promote a sustainable and circular economy by combining technological innovation, education, collaboration, and business acumen.</p>

Main Achievement to date (related outcomes)	BIOwayste has achieved significant milestones, including developing a working prototype and MVP, manufacturing and distributing machines, winning awards and grants, and making a positive environmental impact. These achievements demonstrate the effectiveness of the technology and its potential to address pressing environmental and social issues.
Image Upload	
Starting Date	06-Jan-2020
End Date (if any)	
Environmental Sustainability assessment	4 - 
Social Sustainability	4 - 
Financial Sustainability	4 - 
Technological Sustainability	4 - 
Institutional Sustainability	3 - 
Please select all the SDGs related to your demonstrator	(6) Clean Water and Sanitation, (7) Affordable and Clean Energy, (9) Industry, Innovation and Infrastructure, (11) Sustainable Cities and Communities, (13) Climate Action
Added Time	14-Apr-2023 10:24:14
Referrer Name	
Task Owner	radwan.amro@gmail.com

Name	Gemma, Torres
Email	gtorres@amb.cat
Organization	MedCities

Title/Name of the Demonstration/practice	Biosolar green roofs
Country	
Country	Spain
Location (City)	Sant Feliu de Llobregat, Sant Boi de Llobregat and Santa Coloma de Llobregat
WEFE Nexus Dimensions	Energy, Ecosystems
Keywords	solar energy plants biodiversity roof
Website/ webpage if any	<a href="https://blogs.amb.cat/educacioambiental/2022/02/23/que-son-les-cobertes-biosolars/">https://blogs.amb.cat/educacioambiental/2022/02/23/que-son-les-cobertes-biosolars/</a>
Recorded video link / YouTube link if any	
Institution(s) involved in the development of the practice	Àrea Metropolitana de Barcelona
Linked to funded project ( check for Yes, leave unchecked if No)	false
Please specify the project name, grant number and funding programme	
Funding/finance received	500k€-1M€
Descriptive summary	<p>Three municipalities of the Metropolitan Area of Barcelona (AMB) will instal three biosolar green roofs: 2 in kindergardens and 1 in a library. This is the combination of a green surface on which photovoltaic (PV) modules are placed. The presence of the vegetation lowers and stabilises the PV module temperature, which increases its performance. This helps to generate energy and reduce energetic demand of the buliding, increase urban green spaces and biodiversity, enhances air quality, etc.</p>

<p>Background</p>	<p>The multiple effects of climate change in urban environment require solutions that address multiple challenges in an effective manner. The installation aims to mainly address the increasing energy demand for cooling purposes, as well as the increasing heat island effect and air quality decrease. It also aims to address the lack of space for recreation and educative outdoor spaces for children.</p>
<p>Aims and Goals</p>	<p>The goals of the three biosolar green roofs are:</p> <ul style="list-style-type: none"><li>- Generation of clean energy, with low GHG emissions and without noise generation.</li><li>- Improving the efficiency of the photovoltaic modules by avoiding overheating of the panels (up to 10% efficiency increase by keeping roof temperature below 25°C, above which the efficiency of the PV gets reduced).</li><li>- Reduction of the energy demand of the building due to the insulation provided by the vegetation.</li><li>- Air quality improvement: the vegetation absorbs polluting gases (approximately 100 m<sup>2</sup> of green cover can absorb up to 20 kg of polluting particles in a year!).</li><li>- Biodiversity promotion (for example the presence of pollinators).</li><li>- Contribution to the reduction of the heat island effect due to the cooling effect of the vegetation.</li><li>- Water storage (sponge effect) and, therefore, prevention of local flooding and reduced pressure on the sewer.</li><li>- Provision of outdoor ludic and educative spaces for kids.</li></ul>

<p>Actions taken to achieve objectives</p>	<p>Three biosolar green roofs will be installed during year 2024 as follows:</p> <p>Sant Feliu de Llobregat (Kindergarden roof): 1288 m2 of green roof + 100 PV modules. The space will be adapted for children to play. Total budget: 274.945€, of which 49.000€ are for PV modules</p> <p>Sant Boi de Llobregat (Kindergarden roof): 810 m2 green roof + 30 PV modules. The space will be adapted for children to play. Total budget: 247.275,91€, of which 85.152,09€ are for PV modules</p> <p>Santa Coloma de Gramenet (Library): 468 m2 green roof + 78 PV modules + agora space for educational activities. Total budget: 110.000, of which €36.000€ are for PV modules</p>
<p>Main Achievement to date (related outcomes)</p>	<p>The project is in the process of tendering</p>
<p>Image Upload</p>	<div style="text-align: center;">  <p>planol.jpg</p> </div>
<p>Starting Date</p>	<p>01-Feb-2024</p>
<p>End Date (if any)</p>	
<p>Environmental Sustainability assessment</p>	<p>5 - ★ ★ ★ ★ ★</p>
<p>Social Sustainability</p>	<p>5 - ★ ★ ★ ★ ★</p>
<p>Financial Sustainability</p>	<p>3 - ★ ★ ★</p>
<p>Technological Sustainability</p>	<p>4 - ★ ★ ★ ★</p>
<p>Institutional Sustainability</p>	<p>4 - ★ ★ ★ ★</p>

Please select all the SDGs related to your demonstrator	(4) Quality Education, (7) Affordable and Clean Energy, (9) Industry, Innovation and Infrastructure, (11) Sustainable Cities and Communities, (12) Responsible Consumption and Production, (13) Climate Action, (15) Life on Land, (17) Partnerships for the Goals
Added Time	13-Apr-2023 15:57:08
Referrer Name	
Task Owner	radwan.amro@gmail.com

Name	Henry, Debattista
Email	henry.debattista@gov.mt
Organization	Energy and Water Agency
Title/Name of the Demonstration/practice	National Water Conservation Campaign - Water be the Change
Country	
Country	
Location (City)	Malta
WEFE Nexus Dimensions	
Keywords	
Website/ webpage if any	<a href="https://water.org.mt/">https://water.org.mt/</a>
Recorded video link / YouTube link if any	<a href="https://www.youtube.com/channel/UCvIFZP4N7C GqOKDIBgTirOw">https://www.youtube.com/channel/UCvIFZP4N7C GqOKDIBgTirOw</a>
Institution(s) involved in the development of the practice	Ministry for Energy, Enterprise and Environment; Ministry for Education; Environment and Resources Authority; Water Services Corporation; Parks Malta



Linked to funded project ( check for Yes, leave unchecked if No)	true
Please specify the project name, grant number and funding programme	European Cohesion Funds (2014 - 2020)
Funding/finance received	>5M€
Descriptive summary	Water - Be the Change is a national water conservation campaign launched in September 2019 with the aim of delivering an effective educational and awareness-raising campaign on the optimised and efficient use of water resources to facilitate a cultural shift in people's behaviour towards water conservation on the Maltese islands
Background	
Aims and Goals	The aim of the campaign is to promote the efficient use of water resources at household and agricultural levels. In order to do so, a "moving campaign" has been established that has reached every village in Malta to promote the importance of water saving, through the understanding of how limited natural water resources are, and the dependence on NCWR. A water-saving kit has been given to all households in Malta, which includes water tap airators, and efficient showerheads. Customers may also book a free household water audit to identify any leaks that may be present at household level. An intensive online media campaign has also been initiated which showcased the complete national water cycle, through a series of interviews and documentaries.
Actions taken to achieve objectives	
Main Achievement to date (related outcomes)	The campaign has distributed the water saving kit to more than 90,000 households and engaged with almost 400,000 national residents. Public engagemnet is now reaching its final period, and is expected to conclude by June 2023