

Newsletter - Issue 1

January 2021



SUMMARY

The H2020 RES4LIVE project (2020-2024) has started! 2

Partner team: The Agricultural University of Athens (Coordinating partner) 3

New people in RES4LIVE project: Lukas Wannasek..... 4

Social media accounts..... 4

Coming events 5

The H2020 RES4LIVE project (2020-2024) has started!

The Kick-off meeting of the H2020 RES4LIVE project: “Energy Smart Livestock Farming towards Zero Fossil Fuel Consumption” was held via teleconference - to comply with the current COVID-19 restrictions - on October 22, 2020. Supported by members of Research Executive Agency and DG AGRI of the European Commission, over 45 representatives of the 17 partners from 8 countries (Greece, Italy, Germany, Belgium, Denmark, France, Sweden, Cyprus) started the work programme of the RES4LIVE project by building up the interactions between the project partners and setting the immediate goals.

Led by Agricultural University of Athens (Greece), the four-year project, which started on 1st October, has received €5 million funding from the European Union’s Horizon 2020 Research and Innovation Programme and will be a first attempt for 100% replacement of the fossil fuel consumption of the industrial livestock farming sector with the aid of cost-effective Renewable Energy Source (RES) technologies.

A selection of innovative adapted and commercial RES technologies, which will include - among others - PVT systems, modular heat pumps, biogas upgrading to biomethane, tractors appropriately retrofitting to be fueled with biomethane, smart control and energy management systems will be installed in 4 pilot farms in Belgium (swine), Italy (swine), Germany (dairy) and Greece (poultry) and tested for at least 12 months, serving as the means of de-fossilising evidence and impact generation. The dedicated, optimal designs combined with energy efficiency and other solutions will be proposed and evaluated technically, economically, environmentally and socially.

The overall objective is to provide advanced and cost-effective technologies to the livestock sector that ensure the sustainability of the farms’ operation and the superior thermal comfort of the animals for increased productivity, with minimum climate change impact, complying with and contributing to further implementation of EU's main environmental legislation.

The RES4LIVE project receives funding from the European Union’s Horizon 2020 Research and Innovation Programme, under Grant Agreement No. 101000785.



Cover page of the issue no. 190 of the EAAP e-newsletter where the article appeared on 9th November 2020. Another means of communication to further disseminate the project activities and results.

Partner team: The Agricultural University of Athens (Coordinating partner)

Dr. Dimitris Manolakos - Project Coordinator

Dimitris Manolakos is Associate Professor at Agricultural University of Athens (AUA). He is Mechanical Engineer of National Technical University of Athens with more than 20 years of experience in the fields of: (i) heat to power conversion technologies, focused mainly on the technology of Organic Rankine Cycle systems combined with solid biomass, waste heat or solar heat (ii) Autonomous electricity generation and storage from Renewable Energy Sources (RES) (PVs, and hybrid systems), (ii) RES and heat pumps integration in agricultural buildings (greenhouses and livestock), and (iv) RES systems for sea water desalination with Reverse Osmosis. He has taken part in more than 25 European and national funded projects as the main researcher and energy expert, as well as coordinator of EU and national funded projects. He has published 31 papers in International Journals (Scopus cited), with more than 1150 citations and an h-index=18.



Dimitrios Tyris – Assistant Project Manager



Dimitrios Tyris is a Mechanical Engineer (University of Thessaly). He obtained his M.Sc. degree from the National Technological University of Athens, in the field of Automation Systems (Specialization in Manufacturing and Production Systems) and has worked in precision manufacturing and energy sectors. His research interests include the indoor environmental control and energy performance of livestock and agricultural buildings, using renewable energy sources.

New people in RES4LIVE project: Lukas Wannasek

Lukas Wannasek (ATB Bioenergy researcher)



Credits: L. Wannasek

Within the RES4LIVE project, Dr. Lukas Wannasek / ATB will supervise the planning of the technical integration of the farm CNG filling station into the already existing biogas production and conversion technology (CHP) at the German partner farm LVAT. After its installation, during the pilot phase, he will monitor the process parameters.

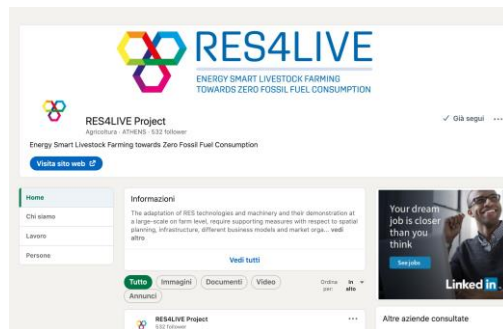
Lukas grew up right next to a large biogas plant – where he later also worked. He graduated in Renewable Energies at the University of Natural Resources and Life Sciences in Vienna (Austria) where he also earned his PhD in Bioenergy Science. Meanwhile he has been active in numerous projects as expert and consultant in the biogas sector.

Social media accounts

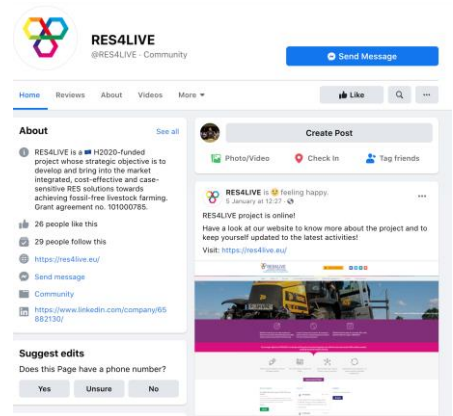
RES4LIVE Social media accounts will play a crucial role in the capacity of the project to reach a wide and different audience. For this reason, social media accounts have been activated promptly in the first phase of the project. [LinkedIn](#) was the first to be opened in May 2020, followed by [Twitter](#) and [Facebook](#) in November. Don't forget to follow our pages to be always updated on the RES4LIVE activities!



Twitter page



LinkedIn page



Facebook page



Coming events

List of the upcoming events with RES4LIVE project partners attendance.

EVENT 	DATE 	LOCATION 	PARTNER INVOLVED 
EUBCE 2021: 29th European Biomass Conference & Exhibition – Poster visual presentation	APRIL 26-29 2021	On-line/ Marseille, France	AUA
5th CIGR International Conference 2021- Integrating Agriculture and Society through Engineering	MAY 10-14 2021	Québec City, Canada	UNIBO
EUREC College of Members #61	JUNE 2021	Online	EUREC
AgEng2021 Conference	JULY 4-8 2021	Évora, Portugal	UNIBO
EUREC College of Members #62	DECEMBER 2021	Online	EUREC

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