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ABOUT US

The associated companies founded in 1996/1998 as start-up innovative microenterprises on wastewater and sludge treatment progressively was extended their activities to other areas of the environment protection and bioenergetics using the biotechnological processes

Actually our focused area is integrated climate-environment-health protection with bioenergetics and biotechnologies by own research, design expertise, complex engineering and education activity.

In this context we have developed the industrial complex with worldwide applicability presented on our profile which represent the corresponding of international circular bio-based economy, resource efficient bioconversion and eco- innovation criterions in the service of sustainable development and carbon pollution mitigation by very efficace processes and technologies.

AREAS OF ACTIVITY

SERVICES

- Education
- Research
- Intellectual property
- Innovation management
- Technology transfer
- Consultancy
- Other Services

TECHNOLOGIES

- Biotechnology
- Ecology and environment
- Energy (oil, gas, electricity)
- Equipment, Technologies, Instruments Food
- Life Sciences, Medicine & Pharmaceuticals Mechanical engineering
- New Materials

INDUSTRY

- Agriculture
- Biotechnology
- Chemical & synthetic
- Creative industry
- Energy
- Food & ingredients
- Green technology & Sustainability
- Health
- Infrastructure
- Raw Materials
- Recycling
- Tourism
- Water management
- Other

Integrated enhanced zero carbon emission bioeconomical complexes, bastions of climate-environment protection, circular economy, resource efficiency, eco-innovation and sustainable development

The linked factories of complex include equipments in different size and complexity for pollution (CO2&GHG)waste (organic and combustible) to energy, biomass (solid and liquid) to energy and biotechnological products, natural resources(underground, thermal,mineral,wastewater,CO2 and gaseous mixtures)

conversion to bioenergetical and biotechnological products.

OWN EXPERTISE AND KEYWORDS

Integrated engineering activity, design and expert experience (EUF7,Horizon 2020,Eurostar,COST projects)testing laboratory, education of students and PhD candidates,

RIA for upgrading of multifunctional biotechnological- bioeconomical establishments, biorefineries, CO₂ utilisation, integrated management of water, natural resources, biobased industries (biofarming utilities, bioenergetical capacities, biorefineries)

Development of basical CliEnv complex factory concept EEN 12HUS2 3NVI/2013, Oxford Academy, UN Global Compact awards, laboratory and pilot equipments, measures, upgrading simulation, case studies

Keywords: dynamical photosynthetical bioreactors, bioenergy generators, biofarming utilities, biorefining, circular economy, natural resources, biobased industries,CO₂ utilisation, water- and waste management, renewable circular economy worldwide applicability, zero carbon, low ecological footprint, bioconversion of pollutants, waste to energy and valuable products and by-products

PROJECT IDEAS

The integrated profil with multiple applicability developed to TRL 6 stage can generate different sizes and technical contents of complexes.

The complexes will be implemented as end pipe establishments to input flows. The main products will be bioenergies (electricity,heat/steam,cooling energy), biofuels (biomethane, bio-CNG,bio-LNG, biohydrogen, bioethanol, biodiesel, biorefinery products,bioelectricity for vehicle filling), biooxygen, biotechnological products (biofertilizer,nutraceuticals,microorganisms for industrial uses, increments,excipients,enzymes,yeasts,biopharmaceuticals,wellness, balneotherapy,thalassotherapie ingredients,biocosmetics, biopesticides,bioplastics,biochar and bioresins) The zero carbon emission complex produce large amounts of CO₂,e tradable.

In this mode the development represent the bastion of bio-economy, climate-environment protection, circular economy, resource efficiency, eco-innovation and sustainable development

TYPE OF PARTNER SOUGHT

We request partners for efficient implementation, adaptation to specific needs and further development