Adult education in Greece

The way forward **Technical specifications**

document This document presents findings on

opportunities for advancement in the bioeconomy sector in Greece, highlighting the needs for skills, existing education, gaps and needs in promoting education. It also includes 3 relevant case studies collected from the country.



Advancement

Opportunities for

Utilization of biogas and use of by-products for fertilization of agricultural crops and

& Food Industry

Smart Agriculture

implementation of technology-driven solutions in Greek agriculture – such as precision farming techniques, IoT devices and data analytics; utilization of uncultivated agricultural land for the production of biomass for biofuel.

Use of raw residual biomass for small-scale and on-site energy production and green transformation (only 3% of the total biomass is used for bio-economy

Green Technologies & Renewable Energy

applications); enhanced use of green innovations and new technologies in energy storage, grid management, and clean energy production, utilizing resources like solar, wind and biomass. **Sustainable Tourism**

Use of the unique Greek tourism

cultural heritage, agro-tourism and

culinary tourism for bioeconomic

industry, agricultural sector,

& Gastronomy

activities.

generation of electricity and heat; conversion of agricultural by-products into value-added

Circular Economy

Utilization of animal waste in

Waste Management &

products like bioplastics, biofuels, or fertilizers; reuse of food waste in food production; promoting the prevention of creating waste and encouraging re-usage and recycling. Marine & Aquatic

marine resources in the bioeconomy value chain – Greece has the largest fishing fleet in the

Bioeconomy

EU (15,188 vessels out of a total of 83,792 within the EU); making advantage of the special role Greece can play in the Middle East and North Africa countries providing technology transfer. Sustainable Fashion

Incorporation of the Greek unique

agriculture, such as cotton, wool and silk, to create eco-friendly local clothing and creative designs.

Utilization of natural fibers and sustainable materials from Greek

and Art

On educational/academic level Better promotion of bioeconomy education and training; introduction of a sufficient

Needs for Skills

On private sector level Enhancement of environmental management and sustainability assessment; better

among academia, industry, businesses, NGOs, investors, civil society organisations etc.

promotion of bioeconomy career opportunities through enhanced collaboration

accreditation system for bioeconomy education and training; building of cutting-edge

biotechnological products and services; vocational education and training is left behind

technical and economic knowledge necessary to manage and promote

when it comes to bioeconomy – to enhance VET, it is essential to align training programs with industry demands and promote practical skills development.

On governmental level More systematic and organized overall governmental efforts and adoption of the

across different regions; promotion of public dialogues to increase the understanding of bioeconomy.

principles of the circular economy across sectors; harmonize governance mechanisms



programs in the circular bioeconomy and sustainability, covering topics such as agriculture, forestry and biotechnology;

Northern Greece) offer advanced training

Existing Education

Higher education:

Gaps & Needs in



On educational/

academic level Lack of concrete educational strategy for bioeconomy education on a national scale; no relevant Bachelor's degree exists so far; low technical training of those involved in primary production (32% of Greek farmers have no agricultural education, one of the

including disabled people,

available locally.

lowest recorded in the EU); no available dedicated research on bioeconomy

the field of bioeconomy for minority groups

immigrants/refugees and youth adults; not enough free courses and certifications

On governmental level

No specific plan or strategy for the

sector; regulatory complexities and

development of bioeconomy; inadequate cooperation of Greek political leadership with

scientific community and social partners; insufficient support for employment in the

bureaucratic hurdles; lack of appropriate

financial mechanisms; no funding for voluntary actions in bioeconomy. 3 Case Studies

Promoting Education

On training level Inadequate skills and training programs tailored to bioeconomy sector; insufficient art and creativity training; inadequate training programs in the field of bioeconomy for minority groups including disabled people, immigrants/refugees and youth adults. education; insufficient education programs in

On private sector level

Inadequate advocacy support for the careers

in bioeconomy; small size of the farms and the low level of cooperation; low level of adoption of technological innovation.

On societal level

Limited public awareness about the potential

and benefits of career development, growth and social impact through bioeconomy; aging

rural population with low level of digital and

individuals caused by a lack of incentive or

IT literacy; possible emigration of skilled

drive.

sustainable/agricultural practices, livestock

Bioeconomy education, training and retraining in Entrepreneurial Education

Research Project of the University of Aegean "Aegean BIOECONOMY" /North and South Aegean, Greece Purpose: Supporting the regions of the North and South Aegean in the transition from a linear to a

circular bioeconomy model. The project combines the recovery and valorisation of biological resources, promotion of sustainability, and protection of the natural environment. It will lead to the development Case Study 2

Bioeconomy education, training and retraining and inclusion of marginalised

groups | Vamvakies Social Green Project /West Macedonia, Greece

/Thessaloniki, Central Macedonia, Greece

Q-PLAN

Case Study 1

Case Study 3 Using art to address different learning styles and facilitate the inclusion of

Purpose: Supporting those interested in entrepreneurship and careers in the food industry. The program empowers the group of women to work at the Enel Green Power photovoltaic park in Kozani,

but also provides free trainings to all Kozani residents to develop their skills in bioeconomy.

Purpose: Improving of employability and integration of disadvantaged groups (refugees) through the professionally configured workshops to teach them tailoring skills with respect to eco-friendly practices. In the workshops, the participants learn not only to sew but also to reuse clothes and to incorporate art, creativity and design in order to create quality products of artistic design.

marginalised people | Ecumenical workshops for refugees NAOMI



PEDAL



the European Union

Consortium

CIVITTA

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union (Research Executive Agency). Neither the European Union nor the granting authority can be held responsible for them.

LOBA.



For more detailed information,

visit Greece regions page in

our website.