

ARCHENERG

INTERNATIONAL INNOVATIVE CLUSTER FOR
RENEWABLE ENERGY AND BUILDING TRADE

Introduction of Archenerg Cluster

Interreg

CENTRAL EUROPE

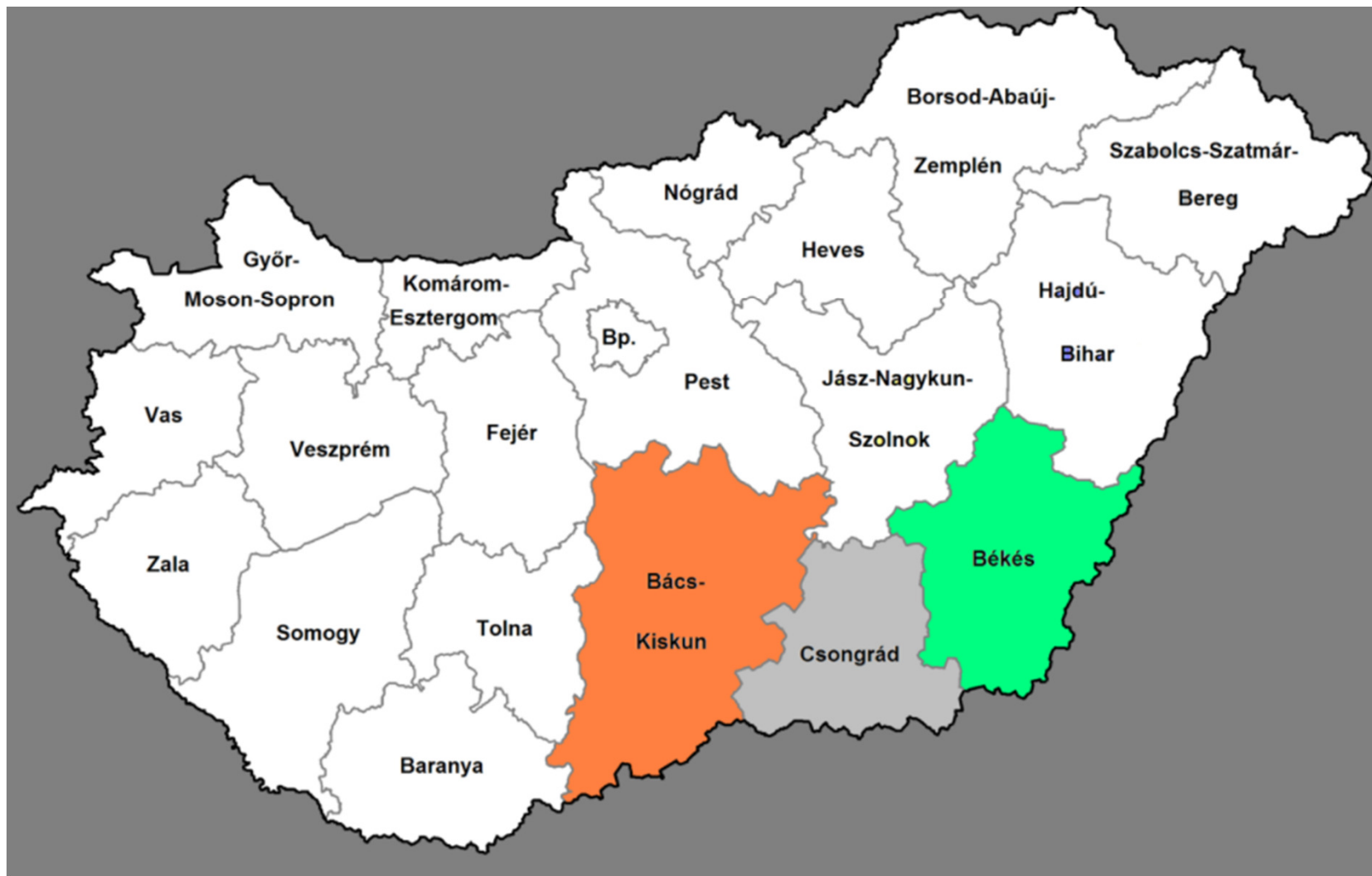
PROSPECT2030



European Union
European Regional
Development Fund

1. Archenerg Renewable Energy Cluster is an associated partner of the PROSPECT2030 project within the Hungarian Southern Great Plain Region as one of the project targets.
2. The Southern Great Plain Region is one of the NUTS 2 regions of the European Union.
3. The Region is located south-east of Budapest and it is bordered by Romania and Serbia.
4. The Region aggregates three predominantly rural counties which have distinctly individual characters.





Southern Great Plain

Population: 1,224,000

Total Area: 18,340 km²

GDP/capita (PPP): €14,500

Capital city: Szeged

Population: 163,000

Of which students: 22,000

1. The Region identifies itself as the Gateway to Balkans, because it lays on the pan-European transport corridor, connecting the eastern Mediterranean to the heart of Europe.
2. The Region's well developed road and rail infrastructure offers an excellent position in international logistics.
3. The centre of the Southern Great Plain is the dynamic and youthful city of Szeged.
4. Szeged is famous for its internationally recognised university and research centres.



The University of Szeged

Number one University
in the Southern Great Plain
region

The aim of the University is to build the European University of the future:
innovative, interdisciplinary, inclusive and integrated in local research and
innovation ecosystems.

The priority is to develop education, research, healthcare services as well as third mission
activities including social responsibility

SZTE is the most important Research and Technology partner of Archenerg



- **12 Departments of**
4 Faculties:
 - **Engineering**
 - **Economics and**
Business
Administration
 - **Agriculture**
 - **Informatics**



1. Besides the rich and versatile cultural life and heritage centres, the Region hosts various traditional and innovative industries.
2. The key renewable potentials include biomass, mainly from agricultural resources, and solar energy for domestic use and photovoltaic power generation at large scale.
3. A particular asset of the Region is the high and mostly unexploited geothermal potential.
4. The energy efficiency refurbishment of public and private buildings and the development of urban mobility represent high energy saving opportunities.



Archenerg Cluster has 86 members:

4 Universities

**63 Small
companies/
start-ups**



**4 Large
Companies**

**11 Medium
Companies**

Aggregate Headcount: 3,640

Aggregate Turnover: €536M



- Services provided by members:
 - ❖ Solar energy utilization
 - ❖ Geothermal energy utilization
 - ❖ Biomass utilization
 - ❖ Passive houses
 - ❖ Building industry

Locations:

Hungary

Szeged
Budapest

International Centres:

Montreal (Canada)
Novi Sad (Serbia)
Cluj (Romania)
Germany



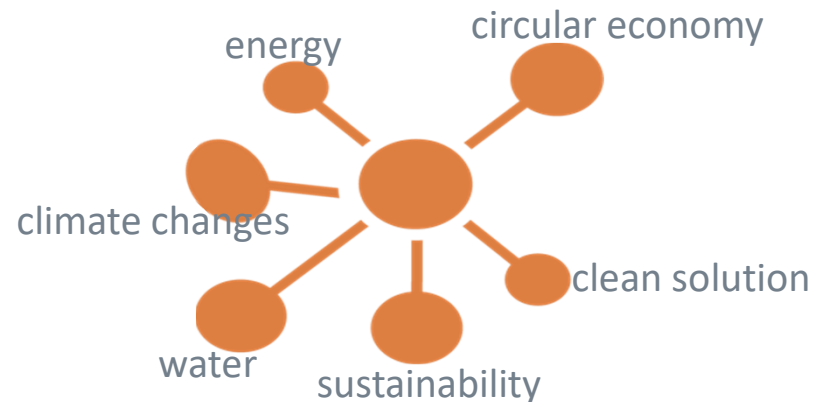
Awards:





- Archenerg is part of:
- European Strategic Cluster Partnership (COSMENERG-4i)
- European Strategic Cluster Partnership for Smart Specialisation Investments.

Focus Areas:



- 40 projects approved
- 31 projects with knowledge & research institutes or universities
- 149 different entities engaged – of which more than 100 companies
- 400 partnership agreements



PROSPECT2030

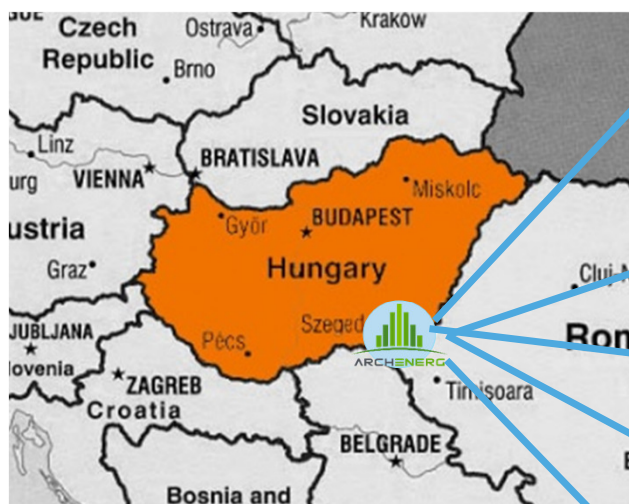


Stakeholder partners of Archenerg Cluster in Szeged area

Location is not an issue for us, we have partners all over Hungary, and outside Hungary too.

Objective:

- Promote networking between partners, to share their expertise
- Generate R&D&I Projects
- Help SMEs to thrive their business
- Boost the competitiveness and innovation



"The energy that transforms us".

"You achieve more if you cooperate".

"Be an innovator, not an imitator."

How we cooperate with each other?

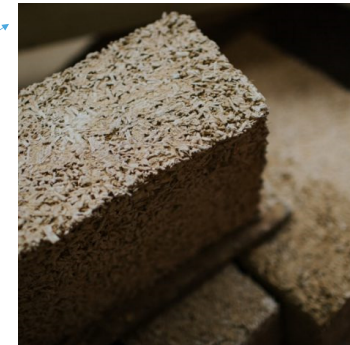
Teaching and training Internship programme → students' knowledge development

SCOBÉ – learning and trainee programme in the wind energy sector 90 trainees involved.



Research, development and innovation

Hemp building blocks factory for construction industry



Tracker manufacturing



Thank you for your attention

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