

3R ENVIRONMENTAL TECHNOLOGIES LTD.

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www.3ragrocarbon.com



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**Biomass & Agricultural Biotechnological & Renewable Energy
Innovative Technology Demonstration and Training “3R” Center
Operational field: from applied science to economical scale up industrialization**

“Science to Achieve Results”

“Converting Trash Into Cash”

**WE OFFER THE 3R CENTER FACILITY AND OUR COOPERATION FOR
RTD, DEMONSTRATION AND VALIDATION WHERE
SCIENCE AND INDUSTRIAL ENGINEERING IS COMBINED**

The field demonstration of advanced design and innovative technologies is the key element to **bridge over science & application, development & commercialization**. The “3R” site is intended to be a Central European regional applied RTD and demo center for biomass utilization within 250 km radius range from us (covering Hungary, Austria, West Romania, Slovakia, South Poland, all former Yugoslavian countries and West Ukraine) and interlink to Western European RTD and industrial networks as well.

Polgardi is an industrial site which is situated 80 kilometers West of Budapest in Hungary at the cross road of M7 highway towards Trieste Italy. From RES wind utilization point of view the plateau area is in the middle of the North West frequent wind zone. One of Central Europe’s main industrial center in the town of Szekesfehervar is located 15 km from Polgardi only, which is Hungary’s largest modern agricultural and industrial concentration, including several multinational industrial park areas. 20 km North West from us located Hungary’s largest chemical production plant (Nitrochemi) with extensive and diversified agro-chemical production, while heavy industries (aluminum producers, coal mining) are located 20 km North of the 3R site.

OUR SPECIALIZATIONS:

COAL & CARBON RENEWABLE ENERGY	CARBONIZATION technology: pyrolysis rotary kiln, post burner, off-gas treatment, syngas development, biomass utilizations
AGRO BIOTECHNOLOGY LABORATORY: <ul style="list-style-type: none">● Biotech RTD● Optimization● Scale up● Industrialization	Extensive and qualified operations in the field of soil microbiology and biocontrol Solid state fermentation and formulation Liquid fermentation (1 litre – 160 litre) Solid fermentation (up to 400 kg)
AGRO TESTS	Glass house & open field tests, validations

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COLLABORATION ADVANTAGES:

QUALITY - EFFICIENCY - RELIABILITY - LOW COST

- **BIOMASS - AGRO-BIOTECH DEMO SERVICE:** Provides ready access to full service site for individual customer-driven applied scientific, technical and field support as per requirements (incl. installation, operation, maintenance, monitoring) of innovative biomass utilization and/or agro-biotechnology and/or wind power demo project.
- **VALIDATED REFERENCE SITE:** Regional Central European reference centre of S & T for international demonstration for innovative technology set up.
- **ECONOMICAL – COST EFFICIENT OPERATION:** The planned innovative biomass and/or agro-biotech and/or wind energy Technology demonstration project overall implementation will be less costly and less complicated to realize.
- **AUTHORITY PERMITS APPROVED:** Demo site installation and operational Authority permits are approved for innovative biomass projects.

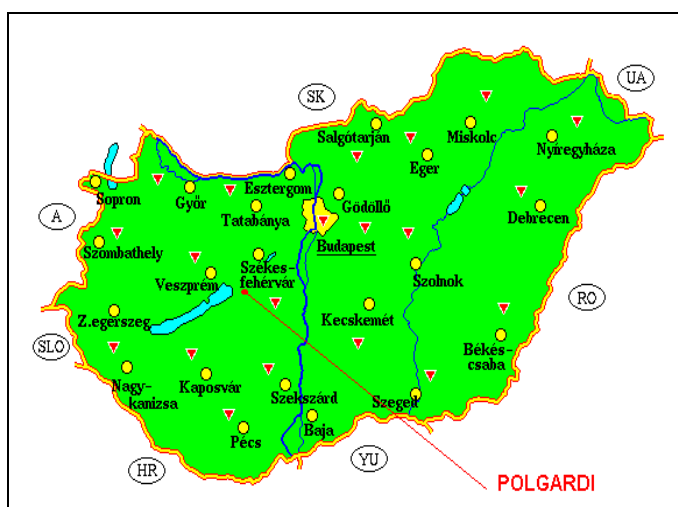
“ 3 R ” CENTER

Located in the center of Central Europe, close by industrial/agricultural areas

ISO 9001 – ISO 14001

CERTIFIED

for scientific research, technical development and industrial performance engineering design of agro-biotechnological and pyrolysis methods, apparatus and applications.



The Polgardi industrial site is located within industrial development area (former agricultural area) at the railway station which area has been entitled for INDUSTRIAL PARK for small and medium sized industrial production operations. Our industrial site is located in the core in this industrial park development area.

AREA AND INFRASTRUCTURES OF THE POLGARDI TOWN INDUSTRIAL SITE

Total area:	8.000 m ²
Built area (as of January, 2007):	500 m ² Separated sections in the building: (1) machine and boiler room, (2) main hall, (3) assembling and storage rooms, (4) social rooms, (5) laboratory and administration rooms.
Industrial classification of the area: AUTHORITY PERMITS = FULLY PERMITTED	Economical development, business, service and industrial production area TECHNOLOGY DEMONSTRATION and INDUSTRIAL PRODUCTION PERMITTED SITE

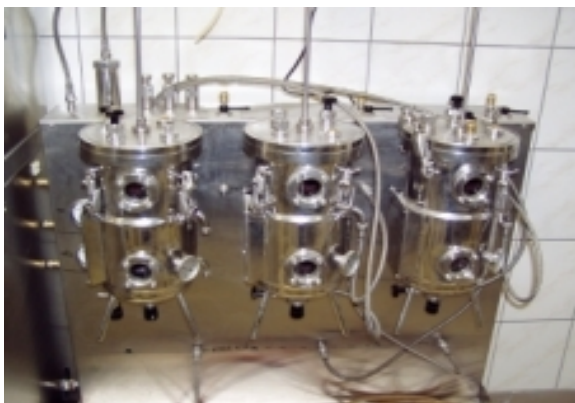
3R Technology Demonstration and Training Center



3R carbonization plant



3R post burner and scrubber



3x5 litre small lab scale
applied research fermentor



160 litre medium lab scale
applied research fermentor