BBS – Technology Offer Form

Company Profile - Description of the company

E-mail contact person:

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Country of origin and year established:

Hungary: 1992

Turnover in million Euro:

- Up to 2 million
- 2 to 10
- 10 to 50
- More than 50 Million

Number of employees in the enterprise:

- 1 – 9
- 10 – 49
- 50 – 249
- More than 250

Technology Offer:

Title:

A Novel technology for exploring, investigating oil, gas, fresh- and thermal water deposits.

Abstract of the offer:

The Hungarian company has developed a complex technology for optimizing exploration and hydrocarbon deposits’ operation. The given technology includes:

1. the most effective methods of hydrocarbon initial exploration and the supplementary exploration
2. most recent technologies to intensify:
   - oil and gas extraction with hydrocarbon debit
     - recoverability - increase up to 50%,
3. drawing-up scientifically substantiated references for the allocation of the operating and injection wells within oil deposit areas for the most effective operation on the deposits.
This technology is based on the method of partial sounding of Earth and the research of background radiation with the use of electromagnetic frequency broadband sounding (PESE).

A Novel technology for exploring, investigating oil, gas, fresh- and thermal water deposits on the depth up to 7000 meters with credibility of 95%.

**Description of the offer:**

At present time search for deposits of hydrocarbons, the survey and drilling of well takes a lot of time and requires considerable financial expenses for achievement of the end goal – deposit discovery. PESE technology provides the possibility to “see” deposits of hydrocarbons and other minerals underground. This allows quickly detect large deposits in vast territories, survey their parameters in detail and then enter deposits from first drilling.

The unique combination of the technology allows to remotely execute search and prospecting of deposits of various types of minerals on land and sea shelf with high efficiency, in short time and at considerably smaller prices in comparison with other geological and geophysical methods.

The technology allows to scan and map any kind of minerals, although the company focuses on the most sought-for minerals: oil, natural gas, fresh- and thermal waters.

**Innovations and advantages of the offer:**

- increasing the probability of disclosure and identification of the type of the minerals up to 90 %, which is 2-3 times higher than traditional exploration methods (25-50 %);
- considerable decrease of costs for the exploration in comparison with traditional methods of geological exploration;
- decrease of timelines for the examination of the area to 4-6 months in comparison to 2-3 years with traditional methods;
- the ability to gain and construct (3-6)D system information model of the deposit;
- the ability to track the dynamic changes in the body of the deposit, including the process of the mass movement;
- the ability to explore the deposit both on earth and the offshore area, swamps, mountains and other hard to reach places, using the helicopter/ small airplane;
- capacity to research mineral resources and hydrocarbons direct search in the abnormal operation conditions /crystalline shield, salt beds and pillars etc. occurrence/;
- innovative approach to the processing the results of the 2D-3D seismic and its application by the developed technology for the direct hydrocarbon search;
- possibility to apply the technology for the direct effective search of the nonconventional hydrocarbons/shales, colliery gases/, and their production optimization without formation hydraulic fracturing;
- innovative approach to the auditing of the active deposits and oil wells debit increase;
- the method is absolutely ecological safe while exploring the area.

**Technology Keywords:** Scanning, mapping, exploring, minning
Current Stage of Development:
- Development phase – laboratory tested
- Available for demonstration
- Available for demonstration – field tested
- Already on the market

Intellectual Property Rights:
- Patent(s) applied for but not yet granted
- Copyright(s) registered
- Secret know-how
- Patents granted
- Exclusive rights
- Others (registered design, plant variety right, etc)

Domain of Application

Detailed Market Application Codes (VEIC): 6.4. Oil and Gas Drilling, Exploration and Extraction Equipment

Collaboration Details:

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<td>Manufacturing Agreement (Subcontracting &amp; Co-</td>
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<td>Transfer of knowledge in new raw materials</td>
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<td>New way to use an existing production line</td>
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<td>Change in the partner sought's currently used technology (installations, process, facilities)</td>
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<td>Absolutely novel process</td>
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Preferred Countries (for information):

worldwide