

## PARTNER SEARCH FORM

**DATE:** 23 December 2010

### PROJECT INFORMATION

**TITLE:** Developing Amine-based CO<sub>2</sub> Capture Technologies for Gas Fuel Power Plants  
**ACRONYM:** AZCO2CAP

**SUMMARY:** Capture of CO<sub>2</sub> from gas fuel power plants is gaining widespread interest as a potential method of reducing greenhouse gas emissions. Nowadays, contemporary amine based CO<sub>2</sub> absorption technologies for post-combustion flue gas applications have been developed successfully. However, we still need to modernize and carry to a new stage existing high-tech amine-based CO<sub>2</sub> capture technologies by making it very cost-effective.

This project will be dedicated to currently existing and planning to be applied amine-based CO<sub>2</sub> capture technologies base on wide-range study, to research technologically simple and economically efficient novel compounds.

**KEYWORDS\*:** CO<sub>2</sub> capture, Amine-based high-tech, Gas Fuel Power Plant

**CALL:** BS-ERA.NET 2010

### NAME(S) of the PARTNER(S) INVOLVED:

1. Qafqaz University / Azerbaijan
2. Ataturk University / Turkey
3. Azerbaijan Energy Engineering & Consulting LLC
4. Institute for Scientific Research on Economic Reforms, Ministry of Economic Development of Azerbaijan Republic

### SCIENTIFIC AND TECHNOLOGICAL EXPERTISE OFFERED\*:

Existing Partner Institutions have involved in several research programs and activities and also made some publications concerning CO<sub>2</sub> capture with special solvents.

Partners also have a strong experience on macroeconomic analysis on the evaluation of the power intensity of all industries; research and study of potential of non-traditional (renewable) energy sources and energy efficiency; estimation of exploitation of hydrocarbon resources; feasibility study of oil and gas projects; consulting and research services on strategic development, management, and government / private sector interfaces for Azerbaijan's fuel and energy complex.

### **PARTNER SOUGHT**

#### **SCIENTIFIC AND TECHNOLOGICAL EXPERTISE REQUESTED:**

Our priority is to attract partners having strong experience in the field of carbon dioxide capture with special solvents / amine-based technologies in power plants or in other industries.

#### **EXPECTED CONTRIBUTION TO THE PROJECT:**

Partners are mainly expected to provide all available documentation concerning scientific, technological, environmental and economical research activities / publications by made their institution as well as made by joint research project / activities in which they attended in the field of CO<sub>2</sub> capture.

#### **ORGANISATION TYPE\*:**

- ☒ Higher Education
 ☒ Research Institute  
☒ R&D Company
 ☒ SME
 ☐ Other

**HOW MANY PARTNERS ARE REQUIRED? 3 (Minimum 1 from Germany)**

### **CONTACT PERSON**

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