



ENGINE COORDINATION ACTION

Minutes of the Steering Committee meeting 27th Thursday April 2006, Potsdam (Germany)

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1. Formalities (Welcome/Apologies/Attendance)

E. Huenges welcomes the Steering Committee. He apologizes Sverrir Thorhallsson and introduces Brynja Jónsdóttir, representing ISOR.

2. Approval of the Minutes of the SC meeting dated 15 February 2006

The steering committee approves the Minutes of the Steering Committee meeting dated 15 February 2006.

3. Presentation of the status of activities for each workpackage

WP1. Project management

The situation of the management of the project is presented. All official documents have been collected (only one consortium agreement is still missing). The signed consortium agreement has been given to the work package leaders and each partner will receive its copy. The money transfer can thus be done and will be performed between the 5th and 10th of May.

The president mentioned that the organisation of the launching conference was excellent and thanks the BRGM.

WP2: The Information and dissemination system of the Co-ordination Action

A review of work in progress is done. The CD of the launching conference is now available and will be sent to each participant.

A proposal is done by the work package leader for keeping the same presentation for the front page and content for proceedings, reports and articles. However, in case of participation of industrial partners, some confidential data might be presented, which will not contribute to the proceedings in a printed version. The content of the provided documents must be adapted according to the aims of the workshop. The experience of CRES in organising meetings with industrial partners will be used as a reference for defining the frame.

The Steering Committee agrees that homogeneity in presentation is a key issue for the identification of the ENGINE deliverables. Thus, the same presentation should be kept for the front page and content for proceedings, reports and articles. On the other hand, it concludes that each work package leader has to express its requirements according to the objective of the workshops and studies and define the content of the documents that will be prepared (preparation of editorial, abstracts, guidebook, conclusions...).

The presentation of each partner on the web site can not be only a presentation of one "lighthouse project". Partners should be identified by their range of activities that directly contributes to the ENGINE network.

The steering committee concludes that for each partner the following should be available on the ENGINE web site: (i) a synthetic text presentation (ii) a power point presentation including the involvement in the ENGINE WPs, (iii) a link to their homepage; (iv) a publication list with a link to the abstracts and the publishers' sites. This can be also extended for associated partners that are not formally within the ENGINE network.

The lighthouse projects should be displayed in a separate section and linked to the involved partners.

The opportunity of proposing a forum on the website is discussed.

The steering committee concludes that the proposal of a forum on the web site must be envisaged for the second year of the ENGINE CA.

WP3/6. Investigation of EGS and unconventional Geothermal resources, integration and expertise phases

Partners have been asked to fill tables with their field of expertise, to present their institution, their equipment and laboratory facilities, to send a list of publication and if possible pdf files of publications and reports. This is necessary to identify the gaps and what has to be performed to improve our know-how. A common frame must be defined for this presentation that should be common to all work packages and linked to the WP2.

Discussion about the access to the pdf files of the published articles and reports concludes that the priority is to realise an inventory of the publications and to provide access to their whole content if it is not protected by copyrights, or links to abstract on the websites of the publisher. In case of interest, it will then be possible to buy the article on the publisher websites or send an e-mail to the author to have a reprint or a pdf file.

A planning for review papers is in preparation, to be discussed in the WP3 meeting on April 28, 2006. The review papers, whose deadline is December 2006, should be focused on the methodological know how (geophysics, geochemistry, geology, rock properties and reservoir modelling) and on a geographical basis. These papers are considered preparatory for the documents listed among the deliverables of WP3, to be due on 2007.

WP4/7. Drilling, stimulation and reservoir assessment, integration and expertise phases

As mentioned for WP3, it is important to define a planning for review papers and identify the main contributors. A discussion concerns the overlapping between WP3 and WP4. It is concluded that this must be taken as a chance to cross experiences and look for new tracks of research. Thus, partners from WP3 could contribute to WP4 and vice versa.

The main targets for WP4/WP7 are reservoir scale and drilling. It has been noted that reservoir assessment was not present as a workshop theme. It is thus decided that it will be included as one of the topics of the workshops to be held in Reyjavik and Pisa.

WP5/8. Exploitation, economic, environmental and social impacts, integration and expertise phases

The Workshop 5 "Electricity Generation from EGS", will be organised by BRGM and IE in Strasbourg in September. Feed back from the contacted private firms for their participation to this workshop is very positive. A first flyer is under preparation. The next work package meeting will be held at this workshop.

Several papers are planned to be prepared by the fall of the year. They concern the economic analysis of geothermal energy, the socio-economic benefits of geothermal energy, increasing policy makers and acceptance. Dead line and contributors are identified and indicated in the Newsletter 2 as well as in the WP5 minutes available on the web site.

The Steering Committee concludes that work packages 3, 4 and 5 must converge to a common presentation of the deliverables. These deliverables are meant to contribute to the Best Practice Handbook and therefore a parallel co-operation of the integration and expertise phase should be established.

4. Organisation of workshops

- *Workshop 3 “Stimulation of reservoir and induced microseismicity” to be held in Switzerland, organised by GEOWATT.*

The preparation of this workshop is in good progress. About 45 participants registered and significant contribution is expected from abroad (USA, Japan) and industrial partners, including oil industry.

- *Workshop 5 “Electricity Generation from EGS”, organised by BRGM and IE*

The question of opening this workshop to all interested partners is arisen as far as the announcement of this meeting will be public on the website. As far as the workshops are the privileged means of action for exchanging experience, promoting new ideas and defining new research paths, it is likely to reserve the access to ENGINE partners and invited and contributing non partners. If a broader interest for this workshop will appear, a second public workshop will be planned for 2007.

5. Strategy for developing partnerships with stakeholders

A letter has been prepared for inviting stakeholders to participate to the stakeholder committee (see stakeholders committee.doc). The discussion is focused on the definition of the stakeholders we are interested in.

The Steering Committee concludes that the creation of the stakeholder committee is a very important issue. It agrees that a first contact could be taken with the potential stakeholders that could be interested in order to prepare a first plenary meeting during the mid-term conference. However, it insists on the necessity to carefully identify which field of activity should be targeted. A preliminary proposal should be to focus in a first stage on companies that are already involved in geothermal energy or have some identified exploration projects in their agenda.

6. Report from the participation to the IEA-IGA meeting in Paris (16-17 March)

The report of the participation of the coordinator to the IEA-IGA meeting underlines the overlapping between some of the annexes presently in progress and some of the topics that ENGINE is processing (see attached document *iea_iga.doc*). A close connection could be proposed by different means:

- an official letter of the coordinator pointing out the interest of ENGINE to keep a permanent link with the active groups working in the framework of the IEA-IGA,
- France could become official partner of the IEA-IGA and delegates to BRGM the following up of the activities. In such case, the ENGINE coordinator could be directly involved in the linkage of these actions.

The development of international links is also discussed. The US Department of Energy has been officially informed by a representative of the US delegation at the IEA-IGA (P. Rose) of the interest of the ENGINE coordination action for establishing collaboration. A letter of the President of the Executive Group will be addressed soon for proposing such collaboration.

Another opportunity of extending the ENGINE consortium to include partners from developing countries with some experience in reservoir stimulation is offered through an INCO call for tender. Partners from Mexico, El Salvador and Philippines are identified and wish to be involved in ENGINE. This extension is justified by the fact that a limited number of high-enthalpy geothermal fields is accessible in Europe. It is thus a priority issue to have access to the knowledge and take benefit of the experience of some others worldwide and strengthen the networking with partners from these countries, known for their knowledge, experience and expertise. This extension will be taken as an opportunity to promote the use of enhancement techniques for enlarging the extent of the geothermal fields and to propose innovative high-level medium- to longer-term research projects.

The opportunity to extend more the consortium is discussed as potential partners from Indonesia and Chile are mentioned. However, a contact with J. Schuppers shows that the total amount will remain limited and that the number of new participants should be restricted to no more than 4.

7. Next meeting

The necessity to hold meetings of the Steering Committee at each workshop is discussed. It is concluded that the co-ordination action still requires a significant management effort for the organisation and structuring of the different work packages in this early stage of the project. It is thus decided that the *Workshop 3 "Stimulation of reservoir and induced microseismicity"* is a good opportunity to organise the next meeting.

The Steering Committee decides to hold its next meeting the 29th June 2006, the first day of workshop 3.