Lead-cooled European Advanced Demonstration Reactor

Fact Sheet

Project Information

LEADER

Grant agreement ID: 249668

Status
Closed project

Start date 2 April 2010
End date 1 October 2013

Funded under
FP7-EURATOM-FISSION

Overall budget
€ 5 699 396,40

EU contribution
€ 2 994 088

Coordinated by
ANSALDO NUCLEARE SPA
Italy

This project is featured in...

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NO. 19, FEBRUARY 2013

Objective

The LEADER proposal deals with the development to a conceptual level of a Lead Fast Reactor Industrial size plant and of a scaled demonstrator of the LFR
technology. The proposal is based on previous achievements obtained during the 6th FP of the EU in the ELSY project but takes into account the indications emerged from the European Strategic Research Agenda as well as the main goals of the European Industrial Initiative on Fission. As a consequence the project is strongly committed to the conceptual design of a scaled/pilot plant to be constructed in the relatively short term. The focus of the first part of activity will be the resolutions of the key issues emerged in the frame of the ELSY project to reach a new reference reactor configuration. This updated reactor configuration of an industrial size LFR will be used to design a low cost and fully representative scaled down prototype of a suitable size. The project foresee an important involvement of End-Users and Safety Authorities from the beginning of the design process to help the plant conception and to assure high safety standards. Education and Training activities are included in a specific work package where European Universities are directly involved with the aim to grow-up the future nuclear energy designer. The LEADER projects takes strongly into account the others already proposed or on-going EU projects. All projects dedicated to R&D and material developments, projects dedicated to the development of ADS systems for transmutation or related to the development of fast reactors (VELLA, CDT, CP-ESFR, GETMAT, FAIRFUELS, ACSEPT, EUFRAT, F-BRIDGE, ACSEPT, ACTINET-I3, THINS) have strong synergies with LEADER toward the development of a Lead cooled fast reactor system. The project Partners are convinced that fostering the European efforts towards a LFR demonstration/pilot plant realization would be very beneficial, will speed up the development needed and establish Europe as a leader in this field.

**Field of science**

/ engineering and technology/ environmental engineering/ energy and fuels/ nuclear energy

**Programme(s)**

**Topic(s)**

**Call for proposal**

FP7-Fission-2009

**Funding Scheme**

CP-FP - Small or medium-scale focused research project

**Coordinator**
<table>
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<tr>
<th>Organisation</th>
<th>Address</th>
<th>Activity type</th>
<th>EU contribution</th>
</tr>
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<tr>
<td>ANSALDO NUCLEARE SPA</td>
<td>Via Lorenzi Nicola 8, 16152 Genova, Italy</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
<td>€ 571 074</td>
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<td>AKADEMIA GORNICZOBUTNICA IM. STANISLAWA STASZICA W KRAKOWIE</td>
<td>Al Adama Mickiewicza 30, 30-059 Krakow</td>
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<td>€ 58 000</td>
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<td>COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES</td>
<td>Rue Leblanc 25, 75015 Paris 15</td>
<td>Research Organisations</td>
<td>€ 124 387</td>
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</table>

**Participants (16)**
€ 110 000
Address
Via Lambruschini 4A
20156 Milano
Activity type
Research Organisations
Contact the organisation
Administrative Contact
Giuseppe Forasassi (Prof.)

EMPRESARIOS AGRUPADOS INTERNACIONAL SA
Spain
EU contribution
€ 307 600
Address
Calle Magallanes 3
28015 Madrid
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
Contact the organisation
Administrative Contact
Maria Teresa Domínguez (Mrs.)

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
Italy
EU contribution
€ 370 000
Address
Lungotevere Grande
Ammiraglio Thaon Di Revel 76
000196 Roma
Activity type
Research Organisations
Website
Contact the organisation
Administrative Contact
Stefano Monti (Dr.)

KARLSRUHER INSTITUT FUER TECHNOLOGIE
Germany
EU contribution
€ 304 000
<table>
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<th>Organisation</th>
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<th>Website</th>
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<td>REGIA AUTONOMA PENTRU ACTIVITATI NUCLEARE DROBETA TR. SEVERIN RA SUCURSALA CERCETARI NUCLEARE PITESTI</td>
<td>Romania</td>
<td>€ 80 000</td>
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<td>JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION</td>
<td>Belgium</td>
<td>€ 128 900</td>
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<td>KUNGLIGA TEKNISKA HOEGSKOLAN</td>
<td>Sweden</td>
<td>€ 112 500</td>
<td>Brinellvagen 8</td>
<td>Higher or Secondary Education Establishments</td>
<td></td>
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</tbody>
</table>
NUCLEAR RESEARCH AND CONSULTANCY GROUP
Netherlands
EU contribution
€ 130 000
Address
Westerduinweg 3
1755 LE Petten
Website
Contact the organisation
Administrative Contact
Monica Thorén (Ms.)

PAUL SCHERRER INSTITUT
Switzerland
EU contribution
€ 125 280
Address
Forschungstrasse 111
5232 Villigen Psi
Website
Contact the organisation
Administrative Contact
Irene Walthert (Ms.)

STUDIECENTRUM VOOR KERNENERGIE / CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE
Belgium
EU contribution
€ 306 330
Address
Avenue Herrmann Debroux 40
1160 Bruxelles
Website
Contact the organisation
Administrative Contact
Griet Vanderperren (Ms.)
S.R.S. Servizi di Ricerche e Sviluppo Societa a Responsabilita Limitata
Italy
EU contribution
€ 103 300
Address
Vicolo Delle Palle 25-25/B
00186 Rome
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
Contact the organisation
Administrative Contact
Ulisse Pasquali (Mr.)

UJV REZ, a. s.
Czechia
EU contribution
€ 51 997
Address
Hlavni 130, Rez
250 68 Husinec
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
Contact the organisation
Administrative Contact
Anna Hojna (Dr.)

ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA
Italy
EU contribution
€ 10 720
Address
Via Zamboni 33
40126 Bologna
Activity type
Higher or Secondary Education Establishments
Website
Contact the organisation
Administrative Contact
Carmen Auricchio (Ms.)

M.E. RIVUS SRL
Italy
EU contribution
€ 100 000

Address
S S 96 Km 97230 Snc
70025 Grumo Appula Bari

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation

Administrative Contact
Luigi De Vecchis (Mr.)

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