

 Content archived on 2024-06-18



FAblication, Irradiation and Reprocessing of FUELS and targets for transmutation

Fact Sheet

Project Information

FAIRFUELS

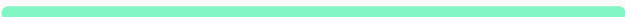
Grant agreement ID: 232624

[Project website](#) 

Project closed

Start date
1 February 2009

End date
31 July 2015



Funded under
EURATOM: Nuclear fission and radiation protection

Total cost
€ 7 320 810,61

EU contribution
€ 3 000 000,00

Coordinated by
NUCLEAR RESEARCH AND
CONSULTANCY GROUP
 Netherlands

This project is featured in...



What we can learn from insects

Objective

FAbrication, Irradiation and Reprocessing of FUELS and targets for transmutation (FAIRFUELS) provides a way towards a more efficient use of fissile material in nuclear reactors with a view to reducing the volume and hazard of high level long-lived radioactive waste, closing the nuclear fuel cycle. In order to contribute to the competitiveness of Europe, the Collaborative Project FAIRFUELS will conduct appropriate studies in synergy with other fuel and actinide partitioning & transmutation projects while maintaining close links with Gen IV International Forum. In fabrication technology and assessment of transmutation performance, FAIRFUELS will focus on minor actinides. Dedicated fuels will be fabricated and a fairly comprehensive irradiation programme will be carried out to address transmutation performance. In parallel, FAIRFUELS will conduct Post Irradiation Examination (PIE) of certain previously irradiated fuels and targets to provide in-depth information on their irradiation behaviour. In support of the PIE, modelling aspects of these fuels will be developed. A training and education programme will also be implemented to share the knowledge among the community, with a link to other related projects. In accordance with the road-mapping exercise undertaken in FP6 and the SNE-TP vision report, the FAIRFUELS consortium, comprising of nuclear research bodies, industry, European Joint Research Centres, and European universities, will endeavour to improve our knowledge in the area of fuels and targets to form a basis for the development of future demonstration systems.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [other engineering and technologies](#) > [nuclear engineering](#) > [nuclear waste management](#)

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#)



Keywords

[Fuel irradiation and modelling](#)

[Minor Actinides](#)

[Nuclear Fuels and Targets](#)

[PIE](#)

[Reprocessing](#)

[Transmutation](#)

Programme(s)

[FP7-EURATOM-FISSION - EURATOM: Nuclear fission and radiation protection](#)

Topic(s)

[Fission-2008-1.2.2 - Transmutation fuels and targets and their reprocessing](#)

Call for proposal

FP7-Fission-2008

[See other projects for this call](#)

Funding Scheme

[CP-IP - Large-scale integrating project](#)

Coordinator



NUCLEAR RESEARCH AND CONSULTANCY GROUP

EU contribution

€ 1 009 163,30

Total cost

No data

Address

WESTERDUINWEG 3

1755 LE Petten

 Netherlands 

Region

Activity type

Other

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Participants (10)



COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

France

EU contribution

€ 485 160,00

Address

RUE LEBLANC 25
75015 PARIS 15

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



CHALMERS TEKNISKA HOGSKOLA AB

Sweden

EU contribution

€ 15 000,00

Address

-
412 96 Goteborg 

Region

Södra Sverige > Västsverige > Västra Götalands län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



CENTRO DE INVESTIGACIONES ENERGETICAS MEDIOAMBIENTALES Y TECNOLOGICAS

 Spain

EU contribution

€ 10 000,00

Address

**AVENIDA COMPLUTENSE 40
28040 MADRID** 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

EU contribution

€ 71 400,00

Address

**SOUTH KENSINGTON CAMPUS EXHIBITION ROAD
SW7 2AZ LONDON** 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION

 Belgium

EU contribution

€ 918 552,80

Address

**Rue de la Loi 200
1049 Bruxelles / Brussel** 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



KUNGLIGA TEKNISKA HOEGSKOLAN

 Sweden

EU contribution

€ 178 652,40

Address

BRINELLVAGEN 8

100 44 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



LGI SUSTAINABLE INNOVATION

 France

EU contribution

€ 144 493,00

Address

6 CITE DE L'AMEUBLEMENT

75011 Paris 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



STUDIECENTRUM VOOR KERNENERGIE / CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE

 Belgium

EU contribution

€ 155 563,50

Address

AVENUE HERRMANN DEBROUX 40

1160 Bruxelles / Brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



SERCO LTD

 United Kingdom

EU contribution

No data

Address

BARTLEY WOOD BUSINESS PARK 16 SERCO HOUSE

RG27 9UY BARTLEY WAY HOOK 

Region

South East (England) > Hampshire and Isle of Wight > North Hampshire

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



ENERGY, SAFETY AND RISK CONSULTANTS(UK) LIMITED

 United Kingdom

EU contribution

€ 12 015,00

Address

BOOTHS PARK CHELFORD ROAD

WA16 8QZ Knutsford 

Region

North West (England) > Cheshire > Cheshire East

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data

Last update: 1 August 2019

Permalink: <https://cordis.europa.eu/project/id/232624>

European Union, 2025