Green Advanced Space Propulsion

Fact Sheet

Project Information

GRASP
Grant agreement ID: 218819
Funded under FP7-SPACE

Project website

Status
Closed project

Start date 1 December 2008
End date 30 November 2011

Overall budget € 3 625 557
EU contribution € 2 778 952

Coordinated by
FACHHOCHSCHULE WIENER NEUSTADT FUR WIRTSCHAFT UND TECHNIK GMBH
Austria

This project is featured in...

RESEARCH*EU MAGAZINE
The big clean-up: how to tackle toxic substances

NO. 25, SEPTEMBER 2013
Objective

Space activities and applications play an important role in strengthening the competitiveness of Europe by scientific progress in the knowledge-based society, and by providing strategic influence and security. Major successful space missions under European leadership have placed ESA and its Member States, the European science community at the forefront. To continue this path Europe must have independent and competitive access to space. With the ITAR (International Traffic in Arms Regulations) continuing to impede the acquisition of US components, Europe thus needs to develop an assured independent source of propulsion components. Today space craft propulsion relies heavily on toxic and carcinogenic hydrazines as propellants. Hydrazine itself is widely used as monopropellant and MMH and UDMH is used as bipropellant fuel. These propellants are a threat to people and the environment, and handling these toxic propellants impedes costly safety measurers. As new ideas and new technologies emerged in the last years, and as the concerns about both the environment and the handling of carcinogenic propellants significantly increase, the so-called Green Propellants show potential improvements with respect to performance and cost. The goal of this project is thus to select the most promising green liquid propellant candidate/s and to push the propulsion technology to the level needed to prove that Green Propellant technology is feasible and competitive. Research and development on Green Propellants and adjacent propulsion technology in Europe is geographically fragmented and insufficiently funded. With the present consortium, some of the key-players in Europe will harmonize their capabilities to meet this demanding goal.

Field of science

/natural sciences/physical sciences/astronomy/space exploration

Programme(s)

Topic(s)
Call for proposal
FP7-SPACE-2007-1

Funding Scheme
CP - Collaborative project (generic)

Coordinator
FACHHOCHSCHULE WIENER NEUSTADT FUR WIRTSCHAFT UND TECHNIK GMBH
Address
Johannes Gutenbergstrasse 3
2700 Wiener Neustadt
Austria
Website
Contact the organisation

Activity type
Higher or Secondary Education Establishments
EU contribution
€ 141 753

Administrative Contact
Helmut Pfeffer (Mr.)

Participants (13)

TOTALFORSVARETS FORSKNINGSINSTITUT
Sweden
EU contribution
€ 280 382
Address
Gullfossgatan 6
164 90 Stockholm
Website
Contact the organisation

Activity type
Research Organisations
Administrative Contact
Carina Eldsäter (Dr.)

UNIVERSITY OF SOUTHAMPTON
United Kingdom
EU contribution
€ 279 710

Website
Contact the organisation
<table>
<thead>
<tr>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highfield SO17 1BJ Southampton</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
</tbody>
</table>

- **Website**
- **Contact the organisation**

**Administrative Contact**

Sandra Rees (Ms.)

---

**CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS**

- **France**
- **EU contribution** € 353 183

<table>
<thead>
<tr>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rue Michel Ange 3 75794 Paris</td>
<td>Research Organisations</td>
</tr>
</tbody>
</table>

- **Website**
- **Contact the organisation**

**Administrative Contact**

Josette Roger (Ms.)

---

**DELTACAT Limited**

- **United Kingdom**
- **EU contribution** € 355 300

<table>
<thead>
<tr>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryde Place 4 PO13 9AU Lee-on-solent, Hampshire</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
</tbody>
</table>

- **Contact the organisation**

**Administrative Contact**

Antony Musker (Dr.)

---

**UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II**

- **Italy**
- **EU contribution** € 344 350

<table>
<thead>
<tr>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corso Umberto I, 40 80138 Napoli</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
</tbody>
</table>

- **Website**
- **Contact the organisation**
DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV

Germany

€ 260 250

Address
Linder Hohe
51147 Koln

Activity type
Research Organisations

Website
Contact the organisation

Administrative Contact
Cornelia Bugge

EVONIK INDUSTRIES AG

Germany

€ 26 000

Address
Rellinghauser Strasse 1-11
45128 Essen

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

Website
Contact the organisation

Administrative Contact
Juergen Czwalinna (Dr.)

SAFRAN AIRCRAFT ENGINES

France

€ 35 291

Address
Bvd Du General Martial Valin 2
75015 Paris

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

Website
Contact the organisation

Administrative Contact
Michel Muszynski (Mr.)
CERAMIQUES TECHNIQUES ET INDUSTRIELLES

France
EU contribution
€ 81 822

Address
Avenue Du Moulinas 382 La Resclause
30340 Salindres

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

Website
Contact the organisation

Administrative Contact
Nadine Delbianco (Ms.)

SIEC BADAWCZA LUKASIEWICZ-INSTYTUTLOTNICTWA

Poland
EU contribution
€ 68 750

Address
Ul. Al Krakowska 110/114
02 256 Warszawa

Activity type
Research Organisations

Website
Contact the organisation

Administrative Contact
Zbigniew Wolejsza (Dr.)

FOTEC FORSCHUNGS- UND TECHNOLOGIETRANSFER GMBH

Austria
EU contribution
€ 104 760

Address
Viktor Kaplan-strasse 2
2700 Wiener Neustadt

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

Website
Contact the organisation

Administrative Contact
Gerhard Pramhas (Dr.)
<table>
<thead>
<tr>
<th>Austria</th>
<th>EU contribution</th>
<th>€ 447 401</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Activity type</td>
<td>Research Organisations</td>
</tr>
<tr>
<td>Giefinggasse 4 1210 Wien</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Website</td>
<td>Contact the organisation</td>
<td></td>
</tr>
<tr>
<td>Administrative Contact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carsten Arthur Scharlemann (Dr.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EVONIK OPERATIONS GMBH</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Activity type</td>
</tr>
<tr>
<td>Rellinghauser Strasse 1-11 45128 Essen</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>Contact the organisation</td>
<td></td>
</tr>
<tr>
<td>Administrative Contact</td>
<td></td>
</tr>
<tr>
<td>Juergen Czwalinna (Dr.)</td>
<td></td>
</tr>
</tbody>
</table>

**Last update:** 16 July 2019  
**Record number:** 89683  
**Permalink:** [https://cordis.europa.eu/project/id/218819/](https://cordis.europa.eu/project/id/218819/)  
© European Union, 2020