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# Production of fully synthetic paraffinic jet fuel from wood and other biomass

## Fact Sheet

### Project Information

**BFSJ**

Grant agreement ID: 612763

Project closed

**Start date**

1 January 2015

**End date**

31 December 2019

**Funded under**

Specific Programme "Cooperation": Energy

**Total cost**

€ 55 610 075,20

**EU contribution**

€ 27 805 038,00

**Coordinated by**

SWEDISH BIOFUELS AB



Sweden

## Objective

"Swedish Biofuels AB, as the co-ordinator of a broad ranging international consortium, proposes the construction of a pre-commercial demonstration plant for the production of fully synthetic paraffinic jet fuel from wood and other biomass. The consortium is to design, construct, commission and operate the plant, which will take a variety of raw materials and produce jet fuel that is compatible, without blending, with in-service and envisaged jet engines for both military and civilian applications. The plant capacity is 10,000 t/y of fuel, of which 5,000 t/y fully synthetic paraffinic jet fuel, the rest is diesel and aviation gasoline.

The plant is based on technology that has been developed by Swedish Biofuels and LanzaTech, which has been validated by the United States Air Force (USAF) and the United States Federal Aviation Authority (FAA). The technology has been granted patent protection in Europe the USA and the other major markets of the world. The plant, in the main, uses standard equipment. The non-standard equipment, roughly 10 % of the total, is to be manufactured by AS Remeksi Keskus.

The plant is to be constructed in Sweden on a site owned by Perstorp Bioproducts AB, the wood raw materials to be supplied by SCA Energy AB. The fuel will be used by Deutsche Lufthansa AG for flight tests. When the fuel is available it will be used by Saab as part of a Sweden national study involving the Swedish jet fighter Gripen.

All products from the plant, jet fuel, diesel and aviation gasoline will be marketed by SkyEnergy BV.

The raw material base for the demonstration plant will be extended during the project by 1) the introduction of ethanol produced from municipal solid waste by Abengoa Bioenergia Nuevas Tecnologias SA 2) the use of biogas for the production of syngas by Perstorp. This will improve the plant economics and environmental impact, as will be investigated by E4Tech SARL during the project.

"

## Fields of science (EuroSciVoc)

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

[natural sciences](#) > [chemical sciences](#) > [organic chemistry](#) > **[alcohols](#)**

[engineering and technology](#) > [industrial biotechnology](#) > [biomaterials](#) > **[biofuels](#)**

[agricultural sciences](#) > [agricultural biotechnology](#) > **[biomass](#)**

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > **[forestry](#)**



## Programme(s)

[FP7-ENERGY - Specific Programme "Cooperation": Energy](#)

## Topic(s)

## Call for proposal

FP7-ENERGY-2013-2

[See other projects for this call](#)

## Funding Scheme

[CP - Collaborative project \(generic\)](#)

## Coordinator



### SWEDISH BIOFUELS AB

EU contribution

€ 21 633 029,90

Total cost

**No data**

Address

**PO BOX 122 76**

**102 27 STOCKHOLM**

 **Sweden** 

Region

**Östra Sverige > Stockholm > Stockholms län**

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

## Participants (8)



## ABENGOA S.A.

 Spain

EU contribution

€ 1 890 847,40

Address

**CAMPUS PALMAS ALTAS PARCELA ZE-3**

**41014 SEVILLA** 

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

**No data**



## DEUTSCHE LUFTHANSA AKTIENGESELLSCHAFT

 Germany

EU contribution

€ 870 000,00

Address

**VENLOER STRASSE 151-153**

**50672 Koln** 

Region

**Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt**

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**



## SKYNRG BV

 Netherlands

EU contribution

€ 158 220,00

Address

**PARADIJSPLEIN 1**

**1093 NJ Amsterdam** 

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

**No data**

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## E4TECH SARL

 Switzerland

EU contribution

€ 151 369,70

Address

**AVENUE JUSTE OLIVIER 2**

**1006 Lausanne** 

Region

**Schweiz/Suisse/Svizzera > Région lémanique > Vaud**

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**

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## SCA ENERGY AB

 Sweden

EU contribution

€ 88 080,00

Address

**SKEPPARPLATSEN 1**  
**851 88 SUNDSVALL** 

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

**No data**

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## AS REMEKSI KESKUS

 Estonia

EU contribution

€ 236 421,00

Address

**TUUSLARI 20**  
**30322 KOHTLA-JARVE** 

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

**No data**

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## LANZATECH UK LTD

 United Kingdom

EU contribution

€ 2 458 038,00

Address

**HORNDEAN ROAD FOREST HOUSE 3 5**  
**RG12 0XQ Bracknell** 

Region

**South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Berkshire**

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

**No data**



## VRIJE UNIVERSITEIT BRUSSEL

 Belgium

EU contribution

€ 319 032,00

Address

**PLEINLAAN 2**  
**1050 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

**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:** 8 July 2015

**Permalink:** <https://cordis.europa.eu/project/id/612763>

European Union, 2025

