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Clean Hydrogen in European Cities

Fact Sheet

Project Information

CHIC

Grant agreement ID: 256848

[Project website](#) 

Project closed

Start date

1 April 2010

End date

31 December 2016

Funded under

Specific Programme "Cooperation": Joint
Technology Initiatives

Total cost

€ 81 956 227,28

EU contribution

€ 25 878 334,00

Coordinated by

EVOBUS GMBH



Germany

Objective

The Clean Hydrogen in European Cities (CHIC) Project is the essential next step to full commercialisation of hydrogen powered fuel cell (H2FC) buses. CHIC will reduce the 'time to market' for the technology and support 'market lift off' – 2 central objectives of the Joint Undertaking.

CHIC will:

- Intensively test the technology to generate learning for the final steps towards commercialisation by operating a minimum of 26 H2FC buses in medium sized fleets in normal city bus operation, and substantially enlarging hydrogen infrastructure in 5 European regions.
- Embed the substantial knowledge and experience from previous H2FC bus projects

(CUTE & HyFLEET:CUTE).

- Accelerate development of clean public transport systems in new European Regions.
- Conduct a life cycle based sustainability assessment of the use of H2FC buses in public transport, based on a triple bottom line approach considering environmental, economic and social aspects.
- Identify the advantages, improvement potentials, complementarities and synergies of H2FC buses compared with conventional and alternative technologies
- Build a critical mass of public support for the benefits of 'green' hydrogen powered transport, leading to increased visibility and political commitment across Europe.

The project is based on a staged introduction and build-up of H2FC bus fleets and the supporting infrastructure across Europe. A phased approach will link experienced cities and new cities in partnerships, greatly facilitating the smooth introduction of the new systems now and into the future. Using this arrangement the project will be linked to other projects fully funded from other sources and therefore magnifies the impact of the JTI.

In the context of the H2FC bus projects and progress achieved to this point, the expected results of CHIC will take the technology to the brink of commercialisation, leading in turn to very significant environmental & economic benefits to Europe and to the World.

Fields of science (EuroSciVoc)

[social sciences](#) > [social geography](#) > [transport](#) > **[public transport](#)**

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



Programme(s)

[FP7-JTI - Specific Programme "Cooperation": Joint Technology Initiatives](#)

Topic(s)

[SP1-JTI-FCH.2009.1.1 - Large-scale demonstration of road vehicles and refuelling infrastructure II](#)

Call for proposal

FCH-JU-2009-1

[See other projects for this call](#)

Funding Scheme

[JTI-CP-FCH - Joint Technology Initiatives - Collaborative Project \(FCH\)](#)

Coordinator



EVOBUS GMBH

EU contribution

€ 494 936,00

Total cost

No data

Address

MERCEDESSTRASSE 127/6

70327 STUTTGART

 **Germany** 

Region

Baden-Württemberg > Stuttgart > Stuttgart, Stadtkreis

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](#) 

Participants (25)



AIR PRODUCTS PLC

 **United Kingdom**

EU contribution

€ 319 547,00

Address

Hersham Place - Molesey Road
KT12 4RZ Walton-On-Thames 

Region

South East (England) > Surrey, East and West Sussex > West Surrey

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



AZIENDA TRASPORTI MILANESI

 Italy

EU contribution

€ 3 538 032,00

Address

FORO BUONAPARTE 61
20121 Milano 

Region

Nord-Ovest > Lombardia > Milano

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



BERLINER VERKEHRSBETRIEBE

 Germany

EU contribution

No data

Address

HOLZMARKT STRASSE 15-17
10179 BERLIN 

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

No data



ELEMENT ENERGY LIMITED

 United Kingdom

EU contribution

€ 328 016,00

Address

SUITE 1 BISHOP BATEMAN COURT THOMPSON'S LANE
CB5 8AQ Cambridge 

Region

East of England > East Anglia > Cambridgeshire CC

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



EURO KEYS SPRL 

 Belgium

EU contribution
€ 12 118,00

Address
RUE DE LA LOI 26/14
1040 Brussels 

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



AIR LIQUIDE ADVANCED BUSINESS

 France

EU contribution
No data

Address
RUE COGNACQ-JAY 6
75007 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



HyCologne - Wasserstoff Region Rheinland e.V.
 Germany

EU contribution

No data

Address

Goldenbergstr. 1
50354 Hurth 

Region

Nordrhein-Westfalen > Köln > Rhein-Erft-Kreis

Activity type

Other

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



HYDROGEN, FUEL CELLS AND ELECTRO-MOBILITY IN EUROPEAN REGIONS

 Belgium

EU contribution

€ 106 024,00

Address

Avenue des Arts 3-4-5
1210 BRUSSELS 

Activity type

Other

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



INFRASERV GMBH & CO. HOCHST KG

 Germany

EU contribution

€ 42 000,00

Address

INDUSTRIEPARK HOCHST C526
65451 Frankfurt Am Main 

Region

Hessen > Darmstadt > Frankfurt am Main, 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



BRITISH COLUMBIA TRANSIT

 Canada

EU contribution

No data

Address

Gorge Road East 520
V8W 2P3 Victoria 

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



LINDE AG

 Germany

EU contribution

No data

Address

**Klosterhofstrasse 1
80331 MUNCHEN** 

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



LONDON BUS SERVICES LIMITED

 United Kingdom

EU contribution

€ 5 673 690,00

Address

**VICTORIA STREET 42 50 WINDSOR HOUSE
SW1H 0TL London** 

Region

London > Inner London — West > Camden and City of London

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



SPHERA SOLUTIONS GMBH

 Germany

EU contribution

€ 239 831,00

Address

HAUPTSTRASSE 111-113

70771 Leinfelden-Echterdingen 

Region

Baden-Württemberg > Stuttgart > Esslingen

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



PLANET PLANUNGSGRUPPE ENERGIE UND TECHNIK GBR

 Germany

EU contribution

€ 210 571,00

Address

DONNERSCHWEER STRASSE 89/91

26123 Oldenburg 

Region

Niedersachsen > Weser-Ems > Oldenburg (Oldenburg), 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



POSTAUTO AG

 Switzerland

EU contribution

€ 4 578 848,00

Address

ENGHALDENSTRASSE 39

3030 Bern 

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Bern / Berne

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



SHELL DOWNSTREAM SERVICES INTERNATIONAL BV

 Netherlands

EU contribution

No data

Address

LANGE KLEINWEG 40 5 VERDIEPING 40

2288 GK RIJSWIJK ZH 

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



Spilett new technologies GmbH

 Germany

EU contribution

€ 85 282,00

Address

Linienstrasse 160

10115 Berlin 

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



SUEDTIROLER TRANSPORTSTRUKTUREN AG

 Italy

EU contribution

€ 4 439 152,00

Address

GERBERGASSE 60

39100 Bozen 

Region

Nord-Est > Provincia Autonoma di Bolzano/Bozen > Bolzano-Bozen

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



TOTALENERGIES MARKETING DEUTSCHLAND GMBH

 Germany

EU contribution

No data

Address

JEAN MONNET STRASSE 2
10557 Berlin 

Region

Berlin > Berlin > Berlin

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



UNIVERSITY OF STUTTGART

 Germany

EU contribution

€ 262 587,00

Address

KEPLERSTRASSE 7
70174 Stuttgart 

Region

Baden-Württemberg > Stuttgart > Stuttgart, Stadtkreis

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



Vattenfall Europe Innovation GmbH

 Germany

EU contribution

No data

Address

Überseering 12
22297 Hamburg 

Region

Hamburg > Hamburg > Hamburg

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



RUTER AS

 Norway

EU contribution

€ 5 500 000,00

Address

DRONNINGENSGATE 40
0154 Oslo 

Region

Norge > Oslo og Viken > Oslo

Activity type

Other

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 

Total cost

No data



Wrightbus Ltd

 United Kingdom

EU contribution

No data

Address

FENAGHY ROAD GALGORM INDUSTRIAL
BT42 1PY Ballymena 

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



CENTRO RICERCHE FIAT SCPA

 Italy

EU contribution

No data

Address

STRADA TORINO 50
10043 Orbassano 

Region

Nord-Ovest > Piemonte > Torino

Activity type

Research Organisations

Links

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

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

Total cost

No data



hySOLUTIONS GmbH

 Germany

EU contribution

€ 47 700,00

Address

BURCHARDSTRASSE 19/21

20095 Hamburg 

Region

Hamburg > Hamburg > Hamburg

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

Last update: 1 August 2019

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European Union, 2025