

Map of Europe showing the number of people per country who have been in contact with at least one person with COVID-19. The map uses blue for the number of contacts and orange for the number of people. Data is provided for various countries, with some marked as 'n.d.' (not data).

Country	Number of people	Number of contacts
Albania	394	n.d.
Andorra	n.d.	20
Austria	35,000	30
Belarus	100	n.d.
Belgium	43,000	400
Bulgaria	2,500	10
Croatia	296	n.d.
Cyprus	100	n.d.
Czechia	8,324	22
Denmark	150	n.d.
Estonia	2,000	21
Finland	5	n.d.
France	12,000-13,500	65
Germany	43,000	400
Greece	3,500-4,700	5
Hungary	6,500-19,000	140
Iceland	950	n.d.
Ireland	3,000	10**
Italy	6,859	n.d.
Latvia	150	n.d.
Lithuania	384	n.d.
Malta	394	n.d.
Netherlands	1,300	3-5
Norway	5	n.d.
Poland	2,250	5
Portugal	394	n.d.
Romania	2,500	10
Slovakia	296	n.d.
Slovenia	2,500	10
Spain	35,000	30
Sweden	5	n.d.
Switzerland	8,324	22
Turkey	6,500-19,000	140
Ukraine	3,500-4,700	5
United Kingdom	12,000-13,500	65
United States	3,000	10**

* Not all member states give separate figures for quick charging points.

** In DK, these are existing Hydrogen Refueling Stations.

Global developments in the areas of sustainable mobility and integrated energy systems are becoming more dynamic. In the past, cooperation has focused mainly on the field of technical challenges, the implementation of innovative technologies and the design of respective funding structures for R&D and market activation. As innovative technologies gain in marketability, the regulative framework for their establishment on the market is now moving more into focus.

Through international collaborations, the NOW, as program company of the Federal Government, represents Germany's position as an active driver of battery technologies, hydrogen and fuel cell technologies in various global markets.

A network diagram with nodes and connecting lines, symbolizing international cooperation. The nodes are represented by colored circles (blue, black, orange, green) and are interconnected by a web of black lines. The background is a light blue gradient with faint, larger-scale network patterns. The text "International Cooperation" is written in a bold, black, sans-serif font at the bottom right of the image.

Mobility, Energy, Environment



MULTILATERAL

IPHE – COMMERCIALIZATION OF HYDROGEN AND FUEL CELL TECHNOLOGIES

The International Partnership for Hydrogen and Fuel Cells in the Economy (IPHE) is a consortium of 18 member states plus the European Commission to support and promote the commercialization of hydrogen and fuel cell technologies. Germany is represented in the IPHE via the Federal Ministry of Transport and Digital Infrastructure (BMVI) with the NOW as coordinating body.

IEA HIA – EXCHANGE ON RESEARCH PROJECTS

The NOW is a member of the Executive Committee of the International Energy Agency Hydrogen Implementing Agreement (IEA HIA) and is actively involved in shaping the content of the IEA HIA. Within the framework of the IEA HIA, scientists from all over the world exchange their views on joint research projects on hydrogen and fuel cell topics.

USA, JAPAN, EU – INTERNATIONAL WORKSHOP ON HYDROGEN INFRASTRUCTURE AND TRANSPORTATION

Together with the US Department of Energy (DoE), the Japanese NEDO and the Joint Research Center (JRC) of the European Union, the NOW organizes the International Workshop on Hydrogen Infrastructure and Transportation, at which experts from the respective national demonstration projects exchange views on the challenges of the practical implementation of existing technical standards and norms.

MISSION INNOVATION – RENEWABLE AND CLEAN HYDROGEN CHALLENGE

Within the Mission Innovation association of 24 nations and the EU, NOW leads the Renewable and Clean Hydrogen Challenge alongside the EU and Australia. The Challenge aims at enabling a global hydrogen market. Central topics are the development of integrated concepts, the role of hydrogen in the gas network and in the application of heavy duty traffic.

EUROPE

EUROPEAN LEGAL FRAMEWORK

The NOW supports the BMVI in the negotiations about directives, regulations and acts of tertiary legislation in the fields of transport, energy and climate protection in the Council of the European Union. To enable concerted action with other European member states in the context of alternative fuel infrastructures and many other themes, the NOW is part of the Government Support Group (GSG) and, together with the Dutch authority Rijkswaterstaat, manage the GSG office.

FCH-JU – HYDROGEN AND FUEL CELL TECHNOLOGY IN EUROPE

Members of the Fuel Cells and Hydrogen Joint Undertaking (FCH-JU) are the European Commission, Hydrogen Europe Research as well as Hydrogen Europe, the European umbrella association representing the hydrogen and fuel cell industry. The NOW is in close contact not only with the members but also with the public-private organization.

EMERGING AND DEVELOPING COUNTRIES

GIZ – ESTABLISHING A NETWORK IN DEVELOPING AND EMERGING COUNTRIES

The international knowledge and technology transfer is to be improved within the framework of the cooperation between the German Society for International Cooperation (GIZ) and the NOW. Its main focus lies on the fields of hydrogen and fuel cell technologies, battery electro-mobility and alternative fuels for a sustainable mobility as well as on their integration in global climate actions. The project initiations and implementations take place in partner countries of the GIZ network in emerging and developing countries.

ASIA

CHINA – SINO GERMAN ELECTRO-MOBILITY INNOVATION AND SUPPORT CENTER (SGEC)

On the basis of the joint declaration between BMVI and the Chinese Ministry of Science and Technology of the PR China (MOST) on cooperation in the area of electro-mobility with batteries and hydrogen and fuel cells as well as the cooperation agreement between the China Automotive Technology & Research Center (CATARC) and the NOW, the virtual center Sino German Electro-Mobility Innovation and Support Center (SGEC) was set up. German-Chinese cooperation projects in the fields of battery electro-mobility, electro-mobility with hydrogen fuel cells, safety (battery and hydrogen) and integration of renewable energies are taking place in the SGEC in order to promote scientific exchange and the development of a partnership.

JAPAN – CLIMATE-FRIENDLY USE OF THE POWER-TO-GAS TECHNOLOGY

The NOW supports the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) at the work group on climate-friendly use of the Power-to-Gas Technology with the New Energy and Technology Development Organization (NEDO). As part of the cooperation, joint workshops are held on the integration of power-to-x and the development of regional concepts.

BMU – EXPORT INITIATIVE ENVIRONMENTAL TECHNOLOGIES

The NOW has been commissioned by the BMU as part of the Environmental Technologies Export Initiative. The aim of the contract is to give emerging and developing countries access to innovative technologies and integrated solutions – for example through the climate-friendly use of hydrogen and fuel cell technology.