NVAS

Slovak National Hydrogen Association

MEMBER PROFILES

of the Slovak National Hydrogen Association

Together we contribute to the transformation of Slovak energy, industry and transport towards a low-carbon future.

About us

The Slovak National Hydrogen Association (NVAS) was established in 2015 as a joint initiative of natural and legal persons, with the aim of supporting research, deployment and use of new technologies that actively make use of hydrogen and fuel cells.

Its leadership took part in the preparation of the National Hydrogen Strategy and the Action Plan for achieving the goals of the hydrogen strategy.

It cooperates closely with ministries, especially the Ministry of Economy, in order to help its members and partners secure a suitable legislative and regulatory environment for building the hydrogen value chain in Slovakia.

Main objectives:

- Implementing best practices within the Slovak Republic, shaping effective public policy and drafting legislation.
- Providing value to its members through the swift delivery of news on regulatory decisions, new policies and technologies in the field of hydrogen and fuel cells. Building and sharing networks of potential business and expert partners.
- Contributing to the transformation of Slovak energy, industry and transport towards a low-carbon future.

NVAS is a member of:

- Hydrogen Europe,
- European Clean Hydrogen Alliance,
- Asia-Pacific Hydrogen Association
- the Association of Industrial Unions and Transport.

NVAS also cooperates with the Clean Hydrogen Partnership, which enables public-private partnerships at EU level in the field of industrial research. The Clean Hydrogen Partnership prepares its own strategic research agenda and funds projects selected through calls for proposals, applying the Horizon participation rules. An advantage of such cooperation is the possibility to apply for financial support under the Horizon Europe programme.

The current trend in energy is to continuously increase the efficiency of energy processes, actively search for new sources and, at the same time, offer environmentally acceptable ways of using them. Hydrogen can provide answers to current questions in the energy sector, including the depletion of fossil fuels, the search for a new suitable alternative fuel, especially in transport, the storage of electricity produced from renewable sources, and the elimination of the greenhouse gases that arise. Hydrogen is therefore an option that offers a solution.

NVAS is a member of the consortia of international projects:

- EASTGATEH2V
- ELEVATEcee
- HyHOPE

Our team



CHAIRMAN OF THE EXECUTIVE COMMITTEE

Mgr. Ján Weiterschütz, MSc.

He is a prominent leader in the field of hydrogen technologies and has served as Chairman of the Slovak National Hydrogen Association since June 2021. He has experience in the preparation, implementation and management of projects in the field of renewable energy sources.



MEMBER OF THE EXECUTIVE COMMITTEE

Ing. Peter Hegeduš

He has been a member of the Executive Committee since 2018 and also serves as Director of the NVAS cluster. He has extensive experience in the management, preparation, implementation and operation of multiple renewable energy projects in Slovakia and abroad.



MEMBER OF THE EXECUTIVE COMMITTEE

Ing. Samuel Babjak

He is a founder of NVAS with many years of experience in building business structures, developing new activities and projects, and bringing new technologies to market.



MEMBER OF THE EXECUTIVE COMMITTEE

Ing. Peter Blaškovitš

Peter Blaškovitš has been a member of the NVAS Executive Committee since 2021, currently as the nominee of VUJE, a.s. and a representative of large companies.



MEMBER OF THE EXECUTIVE COMMITTEE

Mgr. Martin Svoboda

Martin Svoboda has been a member of the NVAS Executive Committee since February 2025 as a representative of the Slovak Innovation and Energy Agency (SIEA).

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Air Products Slovakia, s.r.o.

Website: www.airproducts.sk

Pribinova 4, 811 09 Bratislava, Slovakia

Alstom Czech Republic, a.s.

Website: www.alstom.com

Václavské náměstí 47, 110 00 Prague 1, Czech Republic

Dan Kurucz, Managing Director Czech Republic & Slovakia, dan.kurucz@alstomgroup.com

Social media:

- LinkedIn

Member profile:

Alstom is a French multinational company operating worldwide primarily in the rail transport market, in the manufacture of railway and urban rail vehicles, and in the production and installation of signalling equipment and traffic management systems. It is best known for manufacturing the AGV, TGV and Eurostar high-speed trains, the Pendolino tilting trains and the Citadis trams.

Industry category in which the company operates or plans to operate: hydrogen use in transport, research and development, education and consulting.

Hydrogen products and services offered:

- Hydrogen trains.

Hydrogen products and services the company would like to offer:

- Hydrogen trains in the Czech Republic and Slovakia.

Hydrogen products and services the company is interested in:

- Hydrogen components for trains.

Achievements to date / completed hydrogen projects:

- The first hydrogen train in operation.

Bonett Slovakia

Website: www.bonett.sk

Opatovská cesta 3, 040 01 Košice, Slovakia

Martin Andrašovský, Managing Director, martin.andrasovsky@bonett.sk

Social media:

- LinkedIn
- Facebook

Member profile:

Bonett Group is a strong and experienced partner that has operated in the sale, investment and general supply of alternative fuel technologies for more than 25 years.

It offers professional customer support, service, consulting and the highest quality across its entire portfolio of bioCNG, LNG, H2, biomethane and LPG products.

It operates in the Czech Republic, Poland and Slovakia. Its turnover exceeds CZK 2 billion.

It operates the largest fully Czech-owned network, with more than 50 CNG filling stations and an investment value of CZK 500 million.

It issues its own bioCNG cards, which guarantee customers a price discount and bring further benefits.

In all its activities it is committed to protecting the environment and reducing emissions, and therefore supplies its clients exclusively with bioCNG from renewable sources, which significantly reduces transport emissions in line with ESG.

Industry category in which the company operates or plans to operate: refuelling stations.

Hydrogen products and services offered:

- Complete deliveries of refuelling stations for alternative fuels, technologies for dispensing alternative fuels (H2, CNG, LNG, LPG, biomethane...).

Achievements to date / completed hydrogen projects:

- The Bonett Group has built refuelling stations for fuelling vehicles with hydrogen, namely:
  - ORLEN refuelling station Prague, Barrandov
  - ORLEN Unipetrol refuelling station Litvínov.
- These are complete refuelling stations for public fuelling of hydrogen vehicles at a pressure of 700 bar.

Central Fluidsystems / Swagelok Slovakia

Website: www.czech.swagelok.com

Chebská 545/13, 322 00 Plzeň - Křimice, Czech Republic

Igor Kordoš, Sales Engineer, igor.kordos@centralfluid.sk, +421 904 33 77 10

Social media:

- LinkedIn
- Facebook
- Instagram

Member profile:

Swagelok has decades of experience and expertise in the control and management of hazardous fluids and small-molecule gases under pressure. Swagelok's leading products, solutions and services are designed and delivered to meet and exceed the needs of pioneers in hydrogen technologies.

Swagelok offers a broad portfolio of products and services for fluid systems used in many types of hydrogen applications, including:

- Hydrogen production, transport, compression and storage infrastructure
- Hydrogen buses and trucks
- PEM electrolysis systems
- MF electrolysis systems
- Compressor systems
- Transport trailers
- Hydrogen refuelling stations (HRS)
- Hydrogen storage
- Research and development
- Blending hydrogen with methane

Industry category in which the company operates or plans to operate: refuelling stations, hydrogen transport, distribution and storage, hydrogen use in transport, hydrogen use in industry, production of materials, components and equipment for hydrogen technologies, hydrogen production, research and development, education and consulting.

Hydrogen products and services offered:

- Support in the design of fluid systems
- Supply of high-quality products
- Unique comprehensive solutions
- Safe installation training

Achievements to date / completed hydrogen projects:

Swagelok products are used on the first hydrogen train, aircraft, double-decker bus and hydrogen-into-natural-gas blending project in the United Kingdom.
Cooperation with a leading manufacturer of cylinders and tanks for hydrogen storage in

FCEV projects.
EC-79 approved products for hydrogen applications on vehicles up to 700 bar.
All Swagelok 316SS products contain a minimum of 17% chromium and 12% nickel to prevent hydrogen embrittlement.
All Swagelok products are backed by the Swagelok Limited Lifetime Warranty.

Duslo, a.s.

Website: www.duslo.sk

Administrative building reg. no. 1236, 927 03 Šaľa, Slovakia

Igor Gál, Head of the Technical Development Department, Inorganics Production Division, +421 917 599 376, igor.gal@duslo.sk

Social media:

- Facebook

Member profile:

Duslo, a.s. is one of the most important companies in the chemical industry in Slovakia. It is part of the multinational AGROFERT group, which operates globally in the chemical industry, food industry, renewable resources and various other segments. Our specialisation is the production of inorganic fertilisers, rubber chemicals and adhesives. Duslo, a.s. is the largest hydrogen producer in Slovakia.

Hydrogen produced through steam methane reforming at the Ammonia 4 plant is used mainly for the production of ammonia. The plant was commissioned in 2018 as one of the most efficient ammonia production facilities in Europe and represents the technological peak of conventional ammonia production from natural gas. Through continuous investment in production technologies, Duslo, a.s. has achieved an emissions reduction of more than 60% compared with 1990, as part of our long-term efforts to decarbonise industry. A further reduction of CO2 emissions can be achieved only by switching to the production or purchase and use of green or blue hydrogen.

Industry category in which the company operates or plans to operate: hydrogen production, hydrogen use in industry.

Hydrogen products and services offered:

- The company produces hydrogen for its internal needs, mainly for the production of ammonia and mineral fertilisers.

Hydrogen products and services the company would like to offer:

- The company plans to expand its offer with products made from green hydrogen, including ammonia and mineral fertilisers. If there is interest, it would be willing to lease its ammonia storage to transporters and distributors of green ammonia.

Hydrogen products and services the company is interested in:

- Duslo is interested in the latest technologies for the production and storage of green hydrogen and green electricity. It is also interested in CCU and CCS technologies (a waste CO2 stream of very high purity) and in the potential purchase of green hydrogen and/or green ammonia.

Achievements to date / completed hydrogen projects:

- In 2018 the Ammonia 4 plant was launched, which includes the production of grey hydrogen. This plant is one of the most modern and efficient in Europe.

E.I.C.Engineering inspection company s.r.o.

Website: www.eic.sk

Volgogradská 8921/13, 080 01 Prešov, Slovakia

Bohuslav Fendrych, Managing Director, eic@eic.sk

Member profile:

E.I.C.Engineering inspection company s.r.o. has been a recognised independent expert organisation in the field of safety verification of technical equipment for more than 15 years, with a stable position on the Slovak market.

It provides services throughout Slovakia and in EU countries. It carries out inspection and certification activities on pressure, gas, lifting, electrical and mechanical equipment. It acts as a notified body for lifts, pressure equipment, piping and pressure vessels. It assesses the design documentation of buildings and the documentation of technical equipment and technologies.

Industry category in which the company operates or plans to operate: hydrogen production, hydrogen transport, distribution and storage, refuelling stations, hydrogen use in industry, inspection and certification.

Hydrogen products and services offered:

- Inspection and certification activities for assessing the conformity of technical equipment and the design documentation of technical equipment and technologies with safety and technical requirements.

Achievements to date / completed hydrogen projects:

- Conformity assessment of gas infrastructure and training of specialists to work with a mixture of natural gas and hydrogen (client: eustream, a.s.).

EMPARK, s.r.o.



Website: www.empark.sk

Seredská 247/4012, 917 05 Trnava, Slovakia

ENERTEC, s.r.o.

Website: www.enertec.sk

Družstevná 833/5, 979 01 Rimavská Sobota, Slovakia

Enery Slovakia s.r.o.



Website: www.enery.energy/en/home/

Laurinská 18, 811 01 Bratislava, Slovakia

ENPECO a.s.

Website: www.enpeco.sk

Coburgova 9813, 917 02 Trnava, Slovakia

Member profile:

The company provides energy services, operation of energy facilities, production and supply of electricity, heat, steam, cooling and compressed air, supply and installation of cooling and compressor stations, heat pumps and trigeneration turbines (own production of electricity, heat/steam and cooling), mixing, and regulation of energy and utilities.

Industry category in which the company operates or plans to operate: hydrogen production, hydrogen transport, distribution and storage, hydrogen use in industry, hydrogen use for heat or electricity generation, financing, research and development.

Hydrogen products and services offered:

- Combustion turbines, production and supply of electricity, heat and cooling.

Hydrogen products and services the company is interested in:

Production and supply of electricity, heat and cooling.

ENVIRON s.r.o.

Budyšínska 36, 831 02 Bratislava, Slovakia

Ing. Jakub Kopačka, Assistant to the Managing Director, kopacka@domslov.sk, +421 907 210 954

Member profile:

ENVIRON s.r.o. focuses mainly on providing services and consulting in the field of the environment.

Other areas of activity of the company:

- In recent years its main focus has been ecological and sustainable development within a business approach, support for and cooperation with local inventors on smaller and larger projects in the field of energy (wind, solar, H2, eco-batteries, ...).
- Intermediary activity in services and production.
- Research and development in the natural sciences, technical sciences, and social sciences and humanities.
- Business activities in waste management and the handling of non-hazardous waste

Industry category in which the company operates or plans to operate: financing, inspection, control and statutory examination activities, hydrogen transport, distribution and storage, hydrogen use for heat or electricity generation, hydrogen use in transport, hydrogen use in industry, production of materials, components and equipment for hydrogen technologies, hydrogen production, research and development, education and consulting.

Hydrogen products and services offered:

- Consulting, research and development in the field of hydrogen, ecological and sustainable development, and energy.

Hydrogen products and services the company would like to offer:

- Deepening knowledge in the development, distribution and especially storage of H2 in connection with growing demand for this commodity, and active participation in projects focused on the application, transport and storage of H2 in practice.

Hydrogen products and services the company is interested in:

- H2 in waste management.

Achievements to date / completed hydrogen projects:

- Development of a hydrogen cyclone furnace for the disposal of municipal waste, industrial aerosols and hazardous waste.

ESM YZAMER, energetické služby a monitoring s.r.o.

Website: www.yzamer.sk

Skladová 1, 917 01 Trnava - Sever, Slovakia

Emil Izakovič, Managing Director, yzamer@yzamer.sk, +421 903 718 952

Member profile:

The portfolio of products and services is built on customer needs and is characterised by comprehensiveness and professionalism in energy, renewable energy sources, technology control, measurement and monitoring of consumption, and energy services that reduce energy intensity.

The company's domain is the design, implementation and servicing of the latest technologies in the production, operation and measurement of energy, intelligent process control, as well as expert energy consulting.

Industry category in which the company operates or plans to operate: hydrogen use for heat or electricity generation, research and development, education and consulting.

Hydrogen products and services offered:

- Capstone microturbines, which can also burn hydrogen, are used wherever cogeneration is possible, that is, the simultaneous production of electricity and heat. These units can also be used with high efficiency for trigeneration, that is, for the production of electricity, heat and cooling.

Hydrogen products and services the company would like to offer:

- The Capstone gas microturbine product line is available from an electrical output of 65 kW to 1,000 kW, and in a cascade of up to 10 MW.

Hydrogen products and services the company is interested in:

- Electrolyser, hydrogen and natural gas blenders, propane-butane.

Achievements to date / completed hydrogen projects:

- Projects in preparation: blending hydrogen (30%) with natural gas, combustion in a Capstone microturbine and production of electricity, heat and cooling.

eustream, a.s.

Website: www.eustream.sk

Votrubova 11/A, 821 09 Bratislava, Slovakia

Rastislav Zeleňák, Transmission Network Synergies Manager,
rastislav.zelenak@eustream.sk,
+421 905 804 416

Social media:

- LinkedIn
- Twitter

Member profile:

EUSTREAM is the operator of the natural gas transmission network in the Slovak Republic, whose fundamental mission is the safe, reliable and environmentally friendly transport of natural gas for European markets. This mission, which it has successfully fulfilled since 1972, carries with it shared responsibility for the energy supply of a significant part of the European market. The EUSTREAM transmission system is an important energy link not only between east and west, but also between north and south. A robust system of parallel pipelines is connected to the main transmission routes in Ukraine, Hungary, Austria, the Czech Republic and Poland. The developed gas infrastructure also represents irreplaceable potential in the process of transformation to a low-carbon economy. As a socially responsible company, it is already fully preparing for all future tasks in the transport of low-carbon and renewable gases. EUSTREAM is part of the European initiative European Hydrogen Backbone, whose goal is to create the basis for future hydrogen transport in the EU.

Industry category in which the company operates or plans to operate: hydrogen transport, distribution and storage.

Hydrogen products and services the company would like to offer:

- H2 transport.

Hydrogen products and services the company is interested in:

- Research and development, education and consulting, production of equipment and components for the H2 transmission network.

EV-GP a.s.

Website: www.ev-gp.eu

Tulipánová 1, 903 01 Senec, Slovakia

Ing. Julius Száraz, +421 905 719 339

Member profile:

EV-GP provides comprehensive supplies of charging stations, battery solutions and photovoltaics for the public and private sectors. It is also engaged in the development and production of BESS battery storage systems and charging stations for electric vehicles, as well as the development and production of H2 + H2 storage and its local use for the production of electricity and heat. It also provides energy solutions for households and businesses.

Industry category in which the company operates or plans to operate: hydrogen production, hydrogen use in industry, hydrogen use for heat or electricity generation, production of materials, components and equipment for hydrogen technologies, research and development.

Hydrogen products and services offered:

- Development and use of long-term hydrogen storage.

Hydrogen products and services the company would like to offer:

- An integrated product covering hydrogen production, storage and use.

Hydrogen products and services the company is interested in:

- Hydrogen storage and its use for the production of electricity and heat.

Green Energy Holding, s.r.o.

Website: www.geholding.sk

Mraziarenská 6, 821 08 Bratislava, Slovakia

Matej Kuruc, kuruc@geholding.sk, +421 907 544 117

Member profile:

Green Energy Holding, s.r.o. is a company engaged in the planning, construction and operation of facilities for the production of electricity from renewable energy sources.

Industry category in which the company operates or plans to operate: hydrogen production.

Hydrogen products and services offered:

- Hydrogen production.

Hydrogen products and services the company would like to offer:

- Hydrogen transport, distribution and storage.

H2GP Slovakia

Website: www.horizoneducational.com

Na výslní 18719/2, 821 05 Bratislava-Ružinov, Slovakia

Branislav Hlinka, Chairman of the Association, brano@horizoneducational.com, +421 907 913 293

Erika Czingel, Vice-Chairwoman of the Association, h2gpsk@horizoneducational.com, +421 905 469 836

Social media:

- Facebook
- Instagram
- LinkedIn

Member profile:

The civic association H2GP Slovakia focuses on supporting young talent through the H2GP (Horizon Hydrogen Grand Prix) programme.

The programme is aimed at educating primary and secondary school students in the field of hydrogen-based renewable energy and uses the STEAM concept (Science, Technology, Engineering, Arts, Mathematics). The goal of H2GP Slovakia is to organise and expand the number of competitions in Slovakia, thereby enabling a wider range of students to take part in these innovative activities.

Industry category in which the company operates or plans to operate: education and consulting.

Hydrogen products and services offered:

- Education, promotion and raising awareness of hydrogen in primary and secondary schools.

Hydrogen products and services the company would like to offer:

- Increasing the number of participating schools and extending its activities to universities.

Hydrogen products and services the company is interested in:

- Expanding partnerships.

Achievements to date / completed hydrogen projects:

- Together with schools, it has raised awareness of hydrogen in Slovakia and abroad and promoted Slovakia at the world level in hydrogen RC model car racing.

HAPEVA, s. r. o.

Suché Miesto 52, 900 25 Chorvátsky Grob, Slovakia

HSH Group s.r.o.

Website: www.hshgroup.sk

Južná Trieda 82, 04001 Košice, Slovakia

Ing. Pavol Šutor, Chief Technical Officer, sutor@hshgroup.sk

Social media:

- LinkedIn

Member profile:

HSH Group, s. r. o. can boast a rich history in the field of energy and renewable energy sources. Since its founding it has focused on providing high-quality, reliable and innovative solutions for its clients. It focuses on services in the preparation, design, implementation, commissioning and servicing of energy projects.

Industry category in which the company operates or plans to operate: refuelling stations, inspection and statutory examination activities, hydrogen use in transport, hydrogen use in industry, hydrogen production, research and development, education and consulting.

Hydrogen products and services offered:

In the field of hydrogen technologies, it offers for various types of hydrogen applications:

- feasibility studies,
- specific design of technological solutions with the possibility of connection to renewable energy sources,
- design and permitting process,
- supply and installation of equipment for the production, treatment, compression, storage and application of hydrogen,
- the complete legislative process,
- service and maintenance.

Hydrogen products and services the company would like to offer:

- Hydrogen refuelling stations.

Achievements to date / completed hydrogen projects:

- implementation of an island energy system with energy storage in the form of hydrogen (cooperation of the Faculty of Mechanical Engineering and TUKE)
- design of a technological concept for the application of hydrogen for testing cyber security in industry (GAMO Slovakia)
- feasibility study of the application of renewable sources for the production of green hydrogen at Duslo a.s.
- design of the production, storage and fuelling of green hydrogen for the aviation project of TOMARK s.r.o.

ILF Consulting Engineers Austria GmbH

Website: www.ilf.com

Würtzlerstraße 3/7, 1030 Vienna, Austria

Natália Olahová, Business Development Manager, natalia.olahova@ilf.com, +43676884538144

Social media:

- LinkedIn

Member profile:

ILF is an international engineering and consulting company that helps clients successfully deliver technically demanding industrial and infrastructure projects in the sectors of energy and climate protection, water and the environment, transport and urban spaces, and resources and sustainable industry.

ILF offers its clients comprehensive engineering and consulting services. ILF can act as the owner's engineer for a client, the contractor's engineer for a construction company, or the lender's engineer for investors and/or banks.

Industry category in which the company operates or plans to operate: hydrogen production, hydrogen transport, distribution and storage, refuelling stations, hydrogen use in transport, hydrogen use in industry, hydrogen use for heat or electricity generation, financing, education and consulting.

Hydrogen products and services offered:

- ILF's expertise covers the entire hydrogen value chain and offers solutions for a wide range of hydrogen-related projects. This includes the design of facilities for generating electricity from renewable sources, water treatment and desalination, as well as the production, storage and transport of hydrogen.

Hydrogen products and services the company would like to offer:

- Market studies, feasibility studies, spatial planning, financial advisory, due diligence, concept design, basic design, permit application design, FEED, detailed design, EPCM, PMC services, public procurement and supplier services, construction supervision, commissioning.

Hydrogen products and services the company is interested in:

- Renewable energy systems; water desalination, treatment and transmission systems; hydrogen production systems, hydrogen pipeline systems, hydrogen compression, green hydrogen and Power-to-X, optimisation and selection of electrolysis, hydrogen purification, hydrogen storage, hydrogen risk and safety, selection of materials and equipment.

Achievements to date / completed hydrogen projects:

- DEMO4GRID project: operator's engineer for a 4 MW electrolyser, H2 storage facilities and a H2 refuelling station (Austria); FEED for a hydrogen pipeline system with storage functions and expansion scenarios (Finland); several concept designs and

projects at the FEED stage, including an electrolyser with an output of up to 200 MW for industrial facilities (Austria), a concept design and pre-FEED design for gigascale (20-30 GW) green hydrogen power plants including a hydrogen production project (Austria). Desalination and ammonia production facilities (Kazakhstan); PMC services for the first Canadian green hydrogen + ammonia project with estimated production of 1 MMTA and a future scale of up to 10 MMTA; design of a hydrogen production plant with an electrolyser, including the use of waste heat for district heating, a storage tank for inventory, a compressor, a hydrogen refuelling station and a facility for injecting hydrogen into the natural gas grid (blending) (Austria).

KADAS s.r.o.

Website: www.kadas.sk

Pod zámkom 17, 976 13 Slovenská Ľupča, Slovakia

Ing. Ján Kadúch, Managing Director, +421 915 846 048

Member profile:

KADAS s.r.o. has been engaged in the sale, transport and storage of salts since 2009. It offers products used in transport, agriculture, the food industry and industry. Since its founding it has sold more than 150,000 tonnes of salts and approximately 3,000 tonnes of other minerals.

Industry category in which the company operates or plans to operate: hydrogen production, hydrogen transport, distribution and storage, refuelling stations, hydrogen use in transport, hydrogen use in industry.

Hydrogen products and services the company would like to offer:

- The company has experience and contacts gained through trading with entities in the mining industry and through the use of heavy road freight and rail freight transport.

Hydrogen products and services the company is interested in:

- KADAS s.r.o. is interested in participating in the processes of hydrogen production, transport, storage and consumption.

Košice Self-Governing Region

Website: www.web.vucke.sk/sk/

Námestie Maratónu mieru 1, 042 66 Košice, Slovakia

Katarína Sasaráková, Project Manager, katarina.sasarakova@vucke.sk

Social media:

- Facebook
- Youtube

Member profile:

The Košice Self-Governing Region is one of the eight self-governing regions of Slovakia and has under its founding authority a number of organisations, divided among education, social enterprises, cultural institutions and other organisations.

The European Commission published the document "REPowering the EU with Hydrogen Valleys", in which it declares support for 23 hydrogen valleys in 10 Member States and the United Kingdom; the Hydrogen Valley of the Košice Self-Governing Region is one of them for Slovakia. The Košice Self-Governing Region has long counted on the deployment of hydrogen, and was the first in Slovakia to adopt its own hydrogen strategy, which is a key document for the use of hydrogen technologies in the region.

Industry category in which the company operates or plans to operate: hydrogen production, hydrogen use in transport, hydrogen valleys.

Hydrogen products and services offered:

- The organisation offers cooperation in the preparation and implementation of projects in the field of hydrogen technologies.

Hydrogen products and services the company is interested in:

- Cooperation across the entire hydrogen chain.

Achievements to date / completed hydrogen projects:

- Project development assistance, Expression of Interest for receiving Technical Assistance to generate Synergies with the Clean Hydrogen Partnership.

Lansky, Ganzger, Jacko & Partner, s. r. o.



Website: www.lansky.sk

Dvořákovo nábrežie 4, 811 02 Bratislava, Slovakia

JUDr. Martin Jacko, Attorney and Managing Partner of LGP Bratislava and LGP Prague, martin.jacko@lansky.sk, +421 2 5930 8063

Social media:

- Facebook
- Instagram
- LinkedIn

Member profile:

LGP is one of the leading law firms in Central Europe with a broad international focus, drawing on extensive knowledge and experience from various fields of law applied across the industries in which its clients operate.

LGP Bratislava is one of the main pillars of the Lansky, Ganzger & Partner (LGP) group and also serves as a competence centre for insolvency and restructuring projects, as well as for construction law and infrastructure, especially in connection with the construction of motorways, roads and railways. In 2022 it also opened an office in Prague.

In addition, LGP Bratislava focuses on other areas of law such as public procurement, employment law, compliance, M&A, corporate law, investment incentives, financing from EU funds and public resources, project financing, arbitration, court proceedings and many others.

Industry category in which the company operates or plans to operate: education and consulting.

Hydrogen products and services offered:

- To actively participate in the shaping of emerging legislation, communicate intensively and build cooperation with foreign entities in order to develop joint activities and initiatives in the field of H2.
- To bring and transform the practical experience of other members of the association into emerging legislation, and thereby contribute to creating and improving conditions for the use of H2 in various areas of the economy, or new technologies using H2.
- To cooperate in creating opportunities for the development and implementation of innovative solutions in the field of H2, building on the strategic goals of the EU, deepening cooperation between the academic, business and public sectors with the active participation of the public, and strengthening awareness and attractiveness of H2 projects and technologies for Slovak industry.

Achievements to date / completed hydrogen projects:

- H2 Talks event - the LGP law firm also addresses the topic of hydrogen and its use/implementation at the international level. In March 2022 it organised the "H2 Talks" event in Vienna in cooperation with the Federation of Austrian Industries and the French Embassy, with the participation of experts such as Michel Delpon (Member of the French Parliament and hydrogen expert, President of the think tank "Club vision hydrogène").

Messer Tatragas, spol. s r.o.

Website: www.messer.sk

Chalupkova 9, 819 44 Bratislava, Slovakia

MP Profit, s.r.o.

Website: www.mpprofit.sk

Hliníky 712/25, 017 01 Považská Bystrica, Slovakia

Mgr. Peter Potecký, Managing Director, peter.potecky@mpprofit.sk, +421 918 544 379

Member profile:

MP Profit, s.r.o. provides its clients with professional consulting in the preparation and management of projects co-financed from EU sources. It works with clients in all phases of a project, from its initial set-up and administrative preparation, through writing the application and all its annexes, to managing the implementation of the project itself until the end of the sustainability period. Its aim is to maximise for the client the use of available sources of financing for their investment plans.

Industry category in which the company operates or plans to operate: education and consulting, preparation and management of projects for financing from EU sources.

Hydrogen products and services the company offers:

- Consulting in the preparation and implementation of projects financed from EU sources.

Achievements to date / completed hydrogen projects:

- Cooperation on the project to introduce hydrogen buses for the Košice Self-Governing Region.

Nawitas Development s.r.o.



Košická 56, 821 02 Bratislava, Slovakia

NIPPON STEEL SLOVAKIA s. r. o.

Website: www.sk.nipponsteel.com/sk/

Vstupný areál NIPPON STEEL 1, 040 15 Košice - Šaca, Slovakia

NO GRAVITY Civic Association

Website: www.no-gravity.sk

Oravská 3, 821 09 Bratislava, Slovakia

Ing. Gabriel Adamek, gabriel.adamek@no-gravity.sk

Social media:

- LinkedIn

Member profile:

No Gravity has been preparing activities/projects since 2003 in the following areas:

1. Energy (RES) and transport,

2. Innovative farming,

3. Innovation in healthcare (primarily financed from EU and EEA funds).

In the field of energy and transport it has successfully completed the projects: Sustainable European Biogas Environment, Green Urban Transport Systems and Electric, Electronic and Green Urban Transport Systems.

It is currently implementing the Danube Indeet project, a concept for using electric cars for green hydrogen production, and the Nutshell CE project to improve transport systems.

Industry category in which the company operates or plans to operate: hydrogen use in transport, hydrogen production, education and consulting.

Hydrogen products and services offered:

- Preparation of a concept for the smart integration of electric vehicles as mobile storage solutions, commonly referred to as "vehicle-to-grid", with electrolysis for green hydrogen production.

Hydrogen products and services the company would like to offer:

- A model for identifying the potential for the production and use of green hydrogen in buildings and a business model for implementing this model, preparation of strategies.

Hydrogen products and services the company is interested in:

- Networking, participation in connecting members, identifying acceptance factors among experts and the public.

Achievements to date / completed hydrogen projects:

- We are currently working on the Danube Indeet project.

REFLOW SK s.r.o.

Website: www.reflowsk.sk

Nákovná 24, 821 06 Bratislava, Slovakia

Ing. Miroslav Dragúň, Managing Director, dragun@reflowsk.sk, +421 902 918 888

Ing. Juraj Čík, Sales manager, sales@reflowsk.sk, +421 902 915 555

Social media:

- Instagram

Member profile:

The company specialises in the measurement, control and automation of technological processes and in gas detection, providing solutions from design and equipment supply through to commissioning and servicing.

Industry category in which the company operates or plans to operate: hydrogen use for heat or electricity generation, hydrogen use in transport, hydrogen use in industry, hydrogen production, education and consulting.

Hydrogen products and services the company offers:

- Green hydrogen production.

Hydrogen products and services the company would like to offer:

- Sale of modular hydrogen generators powered by renewable energy sources.

Hydrogen products and services the company is interested in:

- Conferences and education.

Achievements to date / completed hydrogen projects:

- An agreed partnership with a company that works together with the patent author on the further development stages of the generator.

SAM INDUSTRIES a. s.

Website: www.samindustries.sk

Vlčie hrdlo 5985, 820 03 Bratislava, Slovakia

Marek Miertuš, Operations Director of Environmental Technologies,
marek.miertus@samstroje.sk, +421 911 694 000

Member profile:

SAM INDUSTRIES a. s. acts as an EPC contractor for the installation of industrial and environmental technologies. Within the scope of its supplies and works, it provides the preparation of design documentation and accompanying technical documentation, the purchase, manufacture and supply of technological equipment, installation of the technology, as well as the supply and installation of parts of the pressure regulation stations, measurement and control, and regulation stations, and the provision of the necessary engineering activities.

Industry category in which the company operates or plans to operate: hydrogen production, production of materials, components and equipment for hydrogen technologies.

Hydrogen products and services the company offers:

- In cooperation with external partners (electrolyser manufacturers), it offers the supply and installation of a complete technology for hydrogen production from renewable energy sources.

Hydrogen products and services the company would like to offer:

- The company offers its own capacities for the production of pressure vessels and, where necessary, also the possibility of producing pressure vessels for hydrogen storage depending on specific customer requirements.

Hydrogen products and services the company is interested in:

- It is interested in cooperation with manufacturers of components for hydrogen technologies and in cooperation with experts in the design of hydrogen technologies.

Achievements to date / completed hydrogen projects:

- The company has not yet delivered a complete technology for hydrogen production from renewable energy sources. However, it has many years of experience in the supply and installation of various technological equipment and units for industry, which it can use in practice when implementing hydrogen technologies.

Schwer Fittings, s.r.o.

Website: www.schwer.com

Čsl. armády 3/10681, 036 01 Martin, Slovakia

Pavol Letko, Sales Representative, letko@schwer.com, +421 911 575 705

Social media:

- LinkedIn
- Instagram

Member profile:

Schwer Fittings GmbH specialises in stainless steel tube connection technology. Schwer Fittings has several production plants across Europe with strict quality assurance, managed by its headquarters in Germany. Its wide range includes u2 fittings with two ferrules (Twin Ferrule Fitting), compression fittings, couplings, valves and pipes. Schwer Fittings has found that u2 Twin Ferrule Fittings, as a complement to many other products in the Schwer Fittings range, are suitable for use in the hydrogen supply chain. The u2 fittings have undergone additional testing in accordance with the European standard EC79.

Industry category in which the company operates or plans to operate: production of materials, components and equipment for hydrogen technologies.

Hydrogen products and services the company offers:

Schwer Fittings supplies high-quality stainless steel connection technology for many different industrial sectors and applications. The range includes couplings, compression fittings, valves, pipes, hoses and hose ends. Sale of fittings in stainless steel material for the construction of facilities for the production, storage, transport and use of hydrogen as the energy of the future.

- Flexibility and a wide range of products
- Purchase directly from the manufacturer, fast delivery from our logistics centre
- Customised fittings on request
- A technology proven a million times over
- Direct points of contact, in-house product management
- In-house engineering design
- International subsidiaries, detailed catalogues

Hydrogen products and services the company would like to offer:

- Further development of connection technology for use with hydrogen.

Achievements to date / completed hydrogen projects:

- Electrolysis - working with customers on electrolyser construction projects.
- Storage - supplied fittings for tanks in the pressure range of 350 and 700 bar.
- Fuel cell projects - providing customers with accessories for managing hydrogen in many forms: gas, liquid and chemical carriers.
- Transport development projects - providing equipment solutions for trains, buses and trucks.

- Test equipment - fittings and valves designed for use in multiple test equipment applications to verify the long service life and repeatability of hydrogen as an energy carrier.

Siemens Energy, s.r.o.

Website: www.siemens-energy.com

Lamačská cesta 3/A, 841 04 Bratislava, Slovakia

SIGN s.r.o.

Bakossova 3B, 974 01 Banská Bystrica, Slovakia



Slovak Innovation and Energy Agency

Website: www.siea.sk

Bajkalská 27, 827 99 Bratislava, Slovakia

Slovak University of Technology in Bratislava, Faculty of Chemical and Food Technology

Website: www.fchpt.stuba.sk

Radlinského 9, 812 37 Bratislava, Slovakia

prof. Ing. Milan Polakovič, PhD., Vice-Dean for Research, milan.polakovic@stuba.sk, +421 918 674 254
prof. Ing. Ján Híveš, PhD., Head of the Department of Inorganic Technology, jan.hives@stuba.sk
doc. Ing. Miroslav Variny, PhD., Associate Professor, Department of Chemical and Biochemical Engineering, miroslav.variny@stuba.sk
doc. Ing. Michal Horňáček, PhD., Associate Professor, Department of Organic Technology, Catalysis and Petroleum, michal.hornacek@stuba.sk
Ing. Tomáš Ondrovič, Researcher, Department of Organic Technology, Catalysis and Petroleum, tomas.ondrovic@stuba.sk

Social media:

- Facebook
- Instagram
- TikTok

Member profile:

The Faculty of Chemical and Food Technology is one of the seven faculties of the oldest and largest technical university in Slovakia, the Slovak University of Technology in Bratislava, with more than 85 years of tradition in education and research. It is the only faculty in Slovakia that educates graduates across the full range of specialisations of the chemical, pharmaceutical, biotechnological and food industries at all levels of study: bachelor's, master's and doctoral. The faculty currently employs more than 300 university teachers and researchers and more than 100 doctoral students, who carry out basic and applied research in these fields, funded through domestic and international grants and contracts for commercial activities. In both forms, the faculty has a high degree of cooperation with industrial partners, achieves top results within Slovakia and also has many successful international collaborations.

Industry category in which the company operates or plans to operate: research and development, education and consulting.

Hydrogen products and services the company offers:

- Multi-criteria decision analysis for the development of hydrogen ecosystems,
- Modelling, safety analysis and optimisation of hydrogen ecosystems, supervision of diploma and dissertation theses focused on these aspects of the hydrogen economy,

- Laboratory studies of hydrogenation processes, measurements of material properties under a hydrogen atmosphere and of their changes caused by this atmosphere.

Hydrogen products and services the company would like to offer:

- Basic research in the field of hydrogen storage and materials for high-efficiency electrolysers,
- Research in the field of comprehensive assessment and optimisation of the development of hydrogen ecosystems based on technical, economic, environmental and sociometric indicators.

Hydrogen products and services the company is interested in:

- Cooperation in the field of scientific research with relevant entities.

Achievements to date / completed hydrogen projects:

Published interim research results:

- https://doi.org/10.1007/s10800-020-01448-7
- https://doi.org/10.1007/s12678-022-00734-6
- https://doi.org/10.1016/j.enconman.2022.115722
- https://doi.org/10.1016/j.ijhydene.2024.08.445
- https://doi.org/10.3390/hydrogen6040086
- https://doi.org/10.3390/engproc2025117019

Awards for the best hydrogen-related diploma theses: SPNZ (Slovak Gas and Oil Association) prizes in 2023 and 2025:

- https://www.slovgas.sk/aktuality/spnz-ocenil-autorov-najlepsich-diplomoviek-a-clankov-z-oblasti-plynarenstva-2/
- https://www.slovgas.sk/aktuality/spnz-na-zaver-roka-tradicne-ocenil-autorov-najlepsich-diplomoviek-a-clankov-z-oblasti-plynarenstva-2/

STATON, s.r.o.

Website: www.staton.sk, www.statoncoating.com

Sadová 1148, 038 53 Turany, Slovakia

Ing. Ivan Morgoš, Managing Director, staton@staton.sk

Social media:

- YouTube

Member profile:

STATON, s.r.o. supplies and develops coatings and coating equipment based on PVD (Physical Vapor Deposition) technologies. These are ARC evaporation and magnetron sputtering technologies. The coatings are characterised by high hardness, corrosion resistance, chemical stability, abrasion resistance, a high coefficient of friction and biocompatibility.

Industry category in which the company operates or plans to operate: hydrogen use for heat or electricity generation, hydrogen use in transport, production of materials, components and equipment for hydrogen technologies, research and development.

Hydrogen products and services the company would like to offer:

- In the future, the company would like to offer multicomponent thin films with a sophisticated nanostructure and catalytic effect for fuel cells and water electrolysis, with an efficiency matching that of the standard catalysts based on precious metals (Pt, Ru, Rh, Ir, Pd), while significantly reducing production and maintenance costs.

Hydrogen products and services the company is interested in:

- Measurement of the catalytic effects of thin films.

Achievements to date / completed hydrogen projects:

- It is carrying out the project Multicomponent Nanostructured Thin Films for Hydrogen Technologies. In this project it is exploring various material concepts and deposition processes that will lead to a resulting film with sufficient catalytic activity and its stability over time, efficient adsorption and desorption of hydrogen and oxygen, a high exchange current density, excellent electron transfer properties, and high anti-corrosion resistance and stability in the given environment, so that they can replace catalysts based on precious metals.

STILL SR, spol. s r.o.

Website: www.still.sk

Dlhá 91, 949 07 Nitra, Slovakia

SynCo Group, s. r. o.

Website: www.syncogroup.eu

Budyšínska 36, 831 02 Bratislava, Slovakia

TOMARK, s.r.o.

Website: www.tomark.sk

Strojnícka 5, 080 01 Prešov, Slovakia

Martin Sedlák, CEO of the hydrogen division TOMARK PROTON, sedlak@tomarkproton.eu

Social media:

- LinkedIn
- YouTube
- Facebook Viper SD4
- Instagram Viper SD4
- X.com Viper SD4
- Facebook Skyper GT9
- Instagram Skyper GT9
- X.com Skyper GT9

Member profile:

TOMARK s.r.o., founded in 1995, specialises in machining, forming and cutting of metallurgical material as well as the production of welded structures and components.

The TomarkAero division manufactures all-metal sport two-seater aircraft, the Viper SD4 and Skyper GT9, classified in the Ultralight (UL) and Light Sport Aircraft (LSA) categories as an ideal solution for travel, flight training and glider towing.

The new TOMARK PROTON division is a research and development centre for hydrogen-powered vertical take-off and landing aircraft, suitable for urban air mobility and air rescue services, and also works on recyclable hydrogen tanks and valves.

Industry category in which the company operates or plans to operate: hydrogen transport, distribution and storage, hydrogen valley, hydrogen use in transport, production of materials, components and equipment for hydrogen technologies, research and development, education and consulting.

Hydrogen products and services offered:

- It is currently working on development and research in the field of hydrogen aviation and hydrogen tanks.

Hydrogen products and services the company would like to offer:

- VTOL-type hydrogen-powered aircraft, recyclable hydrogen tanks, valves.

Hydrogen products and services the company is interested in:

- Hydrogen fuel cells, electrolysers, compressors, stationary hydrogen tanks.

Achievements to date / completed hydrogen projects:

- EC notification under IPCEI Hy2Move.

Alexander Dubček University of Trenčín

Website: www.tnuni.sk

Študentská 2, 911 01 Trenčín, Slovakia

Trenčín Self-Governing Region

Website: www.tsk.sk

K dolnej stanici 7282/20A, 911 01 Trenčín, Slovakia

Gabriel Vlk, Project process manager, gabriel.vlk@tsk.sk, +421 901 918 195

Social media:

- Facebook
- Instagram

Member profile:

The region has an advantageous location, as it is served by the main road and rail routes, which support the development of industry and agriculture and create conditions for the prosperity of the region as a whole. For visitors to the region, whether foreigners or Slovaks, there is rich historical, cultural and natural heritage.

The deep relationship of local people to traditions is expressed at regular folklore festivals, fairs and exhibitions of folk crafts and trades, held to the accompaniment of traditional music. The development of tourism is aided by the presence of historical monuments and, to a large extent, also by the thermal springs found throughout Slovakia. Geographically, the Trenčín Region is part of the Western Carpathians and its dominant feature is the River Váh.

Industry category in which the company operates or plans to operate: hydrogen use in transport.

Hydrogen products and services the company would like to offer:

- Public transport.

Hydrogen products and services the company is interested in:

- Production and distribution of hydrogen for public transport vehicles.

Technical University of Košice

Website: www.tuke.sk

Letná 1/9, 04001 Košice, Slovakia

TÜV SÜD Slovakia s.r.o.

Website: www.tuvsud.com

Jašíkova 6, 821 03 Bratislava, Slovakia

Ing. Ján Trcka, Business Area Manager PMO, jan.trcka@tuvsud.com, +421 910 235 221

Social media:

- LinkedIn

Member profile:

TÜV SÜD Slovakia s.r.o. is an independent expert organisation that has specialised on the Slovak market for more than 30 years in testing, inspection, management system auditing, certification and professional training. Its main activity is the safety assessment of technical equipment. It carries out inspection activities on pressure, lifting, electrical, gas and mechanical equipment. It acts as a notified body for machinery, lifts, cableways, pressure equipment and vessels, and equipment for explosive atmospheres. It certifies products, persons and management systems, and assesses the design documentation of buildings and the documentation of technical equipment and technologies. In Slovakia it operates from 4 locations in Bratislava, Košice, Nitra and Banská Bystrica.

Industry category in which the company operates or plans to operate: hydrogen transport, distribution and storage, inspection activities, certification, consulting.

Hydrogen products and services the company offers:

- Certification, inspection activities, consulting.

Hydrogen products and services the company is interested in:

- Hydrogen transport, distribution and storage.

Achievements to date / completed hydrogen projects:

- H2 Pilot project (client: SPP - distribúcia a.s.)
- Expert study and assessment of the preparation of technical documentation for the operation of hydrogen-compatible gas facilities (client: SPP - distribúcia a.s.).

Pavol Jozef Šafárik University in Košice

Website: www.upjs.sk

Šrobárova 2, 041 80 Košice, Slovakia

prof. RNDr. Renáta Oriňaková, DrSc., Vice-Rector for Science, Research and Project Agenda, renata.orinakova@upjs.sk

Social media:

- LinkedIn
- Facebook
- Twitter
- Instagram

Member profile:

Pavol Jozef Šafárik University in Košice (hereinafter "the University") is among the significant and respected educational and scientific institutions not only in the Slovak Republic, but also in developed Europe. At present, the University has a Faculty of Medicine, a Faculty of Science, a Faculty of Law, a Faculty of Public Administration and a Faculty of Arts, which train physicians, experts in the natural sciences, mathematics and computer science, teachers, lawyers, and experts in public administration, philosophy, languages, psychology and social work. Graduates of this second-oldest classical Slovak university have a good reputation at home and abroad. The main mission of the University is to provide three-cycle higher education based on the latest scientific knowledge in a broad international context, in line with European trends in this area, the Bologna Declaration and other documents. The University fulfils this mission through the development of a harmonious personality, its flowering of knowledge, and the growth of wisdom and creativity in the individual. The University leads students to tolerance, to the ability of critical and independent thinking, to healthy self-confidence and national pride. The University serves the public by spreading knowledge through research and development, by supporting regional and national activities and by enabling the continuing education of citizens. The University contributes to the development of the culture and education of the nation. The University understands its mission in the individual areas of its activity as a public good. In this spirit, the University wishes to continue acting as a guarantor of freedom, democracy, humanism, morality and ethics, not only on its own academic ground but also by spreading them in society. The University will also in the future defend academic rights and its academic autonomy.

Industry category in which the company operates or plans to operate: hydrogen production, hydrogen transport, distribution and storage, production of materials, components and equipment for hydrogen technologies, research and development, education and consulting.

Hydrogen products and services offered:

- Science and research; education.

Hydrogen products and services the company is interested in:

- Linking research and innovation with practice.

Achievements to date / completed hydrogen projects:

- Scientific publications, domestic projects (VEGA, APVV).

Institute of Materials Research, Slovak Academy of Sciences

Website: www.websrv.saske.sk

Watsonova 47, 040 01 Košice, Slovakia

RNDr. Magdaléna Strečková, PhD., Senior Scientist, mstreckova@saske.sk

Social media:

- Facebook

Member profile:

The Institute of Materials Research of the Slovak Academy of Sciences, a public research institution, was founded in 1955.

It is one of the leading institutes in Central Europe in the field of powder technologies/materials, nanomaterials and ceramic matrix composites. The scientific orientation of IMR SAS focuses on the development and testing of new materials (design and investigation of microstructure, physical and mechanical properties, deformation and fracture characteristics of various materials at low, room and high temperatures) and new technologies with applications in transport, energy, information technology, etc.

Industry category in which the company operates or plans to operate: research and development.

Hydrogen products and services offered:

- Research and development of innovative electrocatalysts for hydrogen production in electrolysers and fuel cells, focusing on new materials that, thanks to their structure and electrochemical properties, enable more affordable and more efficient hydrogen production.

Hydrogen products and services the company would like to offer:

- New-generation high-efficiency electrocatalysts
  - Commercial launch of patented catalysts based on cheaper and more available materials (e.g. platinum-free catalysts) intended for both alkaline and PEM electrolysers.
- Testing and characterisation of electrocatalytic materials as a service (R&D-as-a-service)
  - Offer of laboratory services in testing the electrochemical properties of new materials for other manufacturers or research institutions.
- Consulting services in the development of hydrogen technologies
  - Technology consulting for startups, development centres and public institutions in the introduction of hydrogen solutions.
- Education and training programmes in hydrogen energy
  - Organisation of courses, workshops and training for the professional public, universities and industrial partners in the development and applications of hydrogen technologies.
- Development of low-cost fuel cells for stationary and mobile applications
  - Preparation of its own line of fuel cells using new, more affordable materials with high efficiency and long service life.

Hydrogen products and services the company is interested in:

- Advanced electrocatalytic materials and components
  - Interest in cooperation and purchase of innovative catalysts and membranes for electrolysers and fuel cells with the aim of testing and integrating them into our systems.
- Laboratory and testing equipment for electrochemical research
  - Demand for specialised measuring and analytical equipment for characterising the electrocatalytic properties of materials (e.g. potentiostats, rotating electrodes, spectroscopy).
- Software and simulation tools for the design of hydrogen technologies
  - Interest in digital tools for modelling processes in electrolysers and optimising the design of catalytic systems.
- Educational and professional training programmes in hydrogen energy
  - Demand for professional courses, workshops and certifications to broaden the qualifications of the research and technical team.
- Technology consulting services in the development of hydrogen solutions
  - Interest in consultations with industry or research partners, especially in the scaling of technologies and their implementation in practice.
- Prototypes and components for small and medium-sized electrolysers
  - Demand for technical equipment (e.g. cell plates, separators, tanks) for the development and testing of its own prototypes of hydrogen systems.

Achievements to date / completed hydrogen projects:

- Publications in renowned WOS journals.

Veolia Energia Slovensko, a.s.

Website: www.veolia.sk

Einsteinova 21 - Digital Park I, 851 01 Bratislava, Slovakia

Martina Olejníková, Director of Institutional Relations, martina.olejnikova@veolia.com

Social media:

- LinkedIn
- Twitter

Member profile:

Veolia Energia has operated in Slovakia since 1993. Thanks to our strong international background, we are able to provide efficient energy solutions and a wide range of services with high standards for environmental protection.

Our main activities are the production and distribution of heat and hot utility water, providing services to industrial clients, designing efficient energy solutions and comprehensive building management.

Industry category in which the company operates or plans to operate: hydrogen production, hydrogen use in industry, hydrogen use for heat or electricity generation, research and development.

Hydrogen products and services offered:

- Hydrogen production.

Welding Research Institute

Website: www.vuz.sk

Račianska 1523/71, 831 02 Bratislava, Slovakia

Hydrogen Centre on the Danube V4 HU

Website: www.hydrogenhub.sk

Jánošíkova 1, 040 01 Košice, Slovakia

Ing. Dušan Říha, Director, hydrogenhubdanube@gmail.com

Member profile:

The Hydrogen Centre on the Danube V4 HU is a newly founded and innovative organisation aiming to create suitable conditions for the implementation of new hydrogen technologies in Central and Eastern Europe, with the result of replacing fossil fuels.

Industry category in which the company operates or plans to operate: refuelling stations, hydrogen transport, distribution and storage, hydrogen valley, research and development.

Hydrogen products and services offered:

- The patented technology of Hydrogenious LOHC Technologies GmbH for H2 storage and transport in an LOHC carrier.

Hydrogen products and services the company would like to offer:

- Import of green hydrogen from third countries.

Hydrogen products and services the company is interested in:

- Searching for suitable partners.

Achievements to date / completed hydrogen projects:

- Market research in the field of H2 storage and transport, creation of a hydrogen hub on the Danube.

Zdravý vodík s.r.o.

Website: www.zdravyvodik.sk

Ulica Tehelná 7296/9A, 917 01 Trnava, Slovakia

JUDr. Hana Sopko, LL.M., Managing Director, info@zdravyvodik.sk, +421 911 114 624

JUDr. Peter Sopko, LL.M., Managing Director, info@zdravyvodik.sk, +421 902 898 985

Ing. Eva Harnišová, Consultant, trnava@zdravyvodik.sk, +421 902 118 751

Member profile:

Zdravý vodík s.r.o. is a Slovak company focused on the practical use of molecular hydrogen in prevention, regeneration, vitality support and a healthy lifestyle.

It operates a molecular hydrogen inhalation centre in Trnava, provides hydrogen inhalation services, rental and sale of devices, and also engages in raising awareness of the safe and responsible use of hydrogen technologies. Its ambition is to connect scientific knowledge with practice and to create partnerships with experts and with healthcare, veterinary, sports and wellness facilities. It also pays particular attention to the development of hydrogen applications in the veterinary field and to supporting further research, education and standardisation in this dynamically developing area.

Industry category in which the company operates or plans to operate: research and development, education and consulting, other uses of hydrogen, hydrogen therapy for people and animals, support for the application of hydrogen in agriculture.

Hydrogen products and services offered:

In the field of molecular hydrogen, it currently offers:

- controlled molecular hydrogen inhalation services at its inhalation centre in Trnava,
- rental of hydrogen inhalers for home or commercial use,
- sale of selected hydrogen devices and accessories, in particular hydrogen bottles and accessories,
- expert consulting and training in the introduction of hydrogen technologies into wellness, sports, regeneration and veterinary facilities,
- educational activities, presentations and awareness-raising about the possibilities of the safe and responsible use of molecular hydrogen,
- cooperation in the development of pilot projects, partnerships and application models in the field of human and veterinary use of molecular hydrogen.

Hydrogen products and services the company would like to offer:

In the future, it plans to expand its activities, especially in practical application models of molecular hydrogen for professional facilities. It is preparing a concept of partner inhalation rooms for wellness, sports, regeneration, healthcare and veterinary facilities, including methodological support, staff training and operating standards.

At the same time, it wants to devote more attention to the veterinary use of molecular hydrogen, especially through cooperation with veterinary clinics, breeders' organisations and experts in animal care. Planned activities also include the development of educational

programmes, expert seminars and pilot projects focused on the safe, responsible and professionally grounded use of molecular hydrogen in practice.

It is also particularly interested in the potential of applying molecular hydrogen in agriculture, not only in supporting the vitality, regeneration and welfare of livestock, but also in crop production. In this area it sees room for expert verification of the possibilities of using hydrogen-enriched water or other hydrogen application solutions in growing plants, supporting their vitality, coping with stress factors, germination, regeneration and the overall condition of cultivated crops.

In the longer term, it is considering the creation of a partner network of facilities, experts, growers, breeders and application partners who will work with molecular hydrogen according to uniform quality, safety and communication standards.

Hydrogen products and services the company is interested in:

In the field of hydrogen, it is interested mainly in products, services and partnerships that will support the safe, professional and commercially sustainable use of molecular hydrogen in practice.

It is interested primarily in:

- certified hydrogen inhalers, hydrogen-enriched water generators and related technologies suitable for professional, home, wellness, sports and veterinary use,
- technologies for the precise measurement of molecular hydrogen concentration in water, air and the application environment,
- expert and regulatory consulting in the area of safety, certification, technical documentation and placing hydrogen devices on the market,
- research, academic and application partners for pilot projects in the fields of human health, regeneration, sports, veterinary medicine and agriculture,
- partners for verifying the use of hydrogen-enriched water and hydrogen application solutions in crop production, plant growing and in supporting crop vitality,
- veterinary clinics, wellness and regeneration centres, sports facilities, spas, outpatient clinics and other facilities interested in introducing hydrogen application models,
- options for financing, grant support, leasing or investment models for the development of pilot projects and a partner network of hydrogen facilities,
- expert data, studies, methodologies and examples of good practice from abroad that can contribute to the standardisation and credible communication of molecular hydrogen in Slovakia.

Achievements to date / completed hydrogen projects:

Its activities and completed projects in the field of molecular hydrogen to date include, above all, the building and operation of a molecular hydrogen inhalation centre in Trnava, where we make hydrogen inhalation services available to the general public in a controlled and professional environment.

Alongside the operation of the centre, it has also developed a model of rental and sale of selected hydrogen devices and accessories, thanks to which clients can use molecular hydrogen outside its centre as well. It also engages in awareness-raising, individual consulting and public education on the possibilities of the safe and responsible use of molecular hydrogen.

It considers the establishment of cooperation with athletes, experts, and wellness and regeneration facilities, as well as the development of the veterinary direction of molecular hydrogen use, to be a significant step forward. In this area we are preparing cooperation with veterinary clinics and experts with the aim of creating practical application models for animals.

Part of its development is also the search for possible synergies of molecular hydrogen with other regenerative, preventive and wellness approaches. It is interested above all in the professional and safe combination of hydrogen inhalation with other supporting methods in the fields of regeneration, athletic performance, vitality, animal care and overall prevention.

Membership in the Slovak National Hydrogen Association is also an important milestone for it, which we regard as an opportunity to take an active part in expert discussion, connect with technology, research and application partners, and contribute to the development of a credible molecular hydrogen ecosystem in Slovakia.

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