

# Hydrogen Technologies Inward Mission to UK

07-08 March 2023





## Department for Business and Trade

We secure UK and global prosperity by promoting and financing international trade and investment, and championing free trade.

The range of expert services is tailored to the needs of individual businesses to maximise their international success. Companies are given advice and practical support, and staff can assist at all stages of the business planning cycle, from inception to completion.

The UK's commitment to support global investment is unparalleled. Our international network provides a global reach in 170 countries. Staff work to ensure global businesses can invest successfully in the UK.

We are an international economic department, responsible for delivering 4 priority outcomes.

- Secure world-class free trade agreements and reduce market access barriers, ensuring that consumers and businesses can benefit from both.
- Encourage economic growth and a green industrial revolution across all parts of the UK through attracting and retaining inward investment.
- Support UK business to take full advantage of trade opportunities, including those arising from delivering free trade agreements, facilitating UK exports.
- Champion the rules-based international trading system and operate the UK's new trading system, including protecting UK businesses from unfair trade practices.



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## TÜPRAŞ

<https://www.tupras.com.tr/>

Based in İzmir, İzmit, Kırıkkale and Batman, [Tüpraş](#) is the first producer in the refining sector in Türkiye, and the largest industrial enterprise in the country. This makes it the 7<sup>th</sup> largest in Europe, operating four oil refineries with a total of 30 million tons of annual crude oil processing capacity. Tüpraş is also among the few refineries in the Mediterranean region with a high complexity - an average Nelson Complexity Index of 9.5. The company launched its Carbon Neutrality Target by 2050 as part of its strategic transformation plan, focusing on four business areas: sustainable refining, zero-carbon electricity, green hydrogen, and biofuels. For further information on Tüpraş Strategic Transition Plan, please visit [Strategy - Tüpraş \(tupras.com.tr\)](#)



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**TEKFEN ENGINEERING**

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**[www.tekfenmuhendislik.com](http://www.tekfenmuhendislik.com)**

Tekfen Engineering was founded in 1984 to complete engineering services needed for turnkey-delivery projects, an effective solution partner whose experience arising from the completion of countless domestic and international projects and strong professionals make it especially preferred in the conduct of large-scale EPC, EPCM, and Design & Build projects. Possessing all of the engineering skills and resources needed to undertake and carry out expertise-demanding infrastructure projects such as refineries and petrochemical plants, terminals, fossil-fuel, gas and renewable-energy power plants, fertilizer plants, highways, rail systems, and long-span bridges.



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## **ASPİLSAN ENERJİ**

<https://www.aspilsan.com>

ASPİLSAN Enerji Sanayi ve Ticaret A.Ş. was founded in Kayseri Organized Industrial Zone in 1981. ASPİLSAN Enerji started the production of radio batteries in 1985, and the production of aircraft and helicopter batteries in Ni-Cd chemistry in 1993. Until 1996, ASPİLSAN Enerji produced Ni-Cd rechargeable cells with Varta license. ASPİLSAN Enerji has started mass production of its Li-Ion Rechargeable Cylindrical Cell ASPİLSAN INR18650A28 in June 2022 and it is the first company in Europe to conduct mass production of li-ion 18650 cells. Four R&D centers are located in Kayseri, Ankara, and Istanbul. Battery Systems R&D Center in Kayseri; Electronic R&D Center and Cell Design and Development R&D Center in Ankara; and Hydrogen & Fuel Cell R&D Center in the province of İstanbul. Hydrogen & Fuel Cell R&D Center is executing operations such as development of water electrolyzer systems and fuel cell systems, and within the scope of national and international projects, this center is focused on producing these products with ASPİLSAN Enerji trademark. Especially PEM and Alkaline types of electrolyzer and PEM fuel cell stacks are worked on. It is aimed to develop large capacities of electrolyzers and fuel cell systems until 2027.



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## **VITRA**

[www.vitra.com.tr](http://www.vitra.com.tr)

Founded in 1958, the VitrA CSW factory is Europe's largest facility established in a single area, with a production capacity of 5.5 million CSWs as of 2023. With the new investments being made, this value will reach 7.4 million CSW units in the year of 2025. The factory is also the owner of EFQM and TPM awards.



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## **KALYON ENERJİ INVESTMENTS**

**[www.kalyonholding.com](http://www.kalyonholding.com)**

Kalyon Enerji is one of the prominent green energy investors in the world with a renewable portfolio of 3500 MWe plus 1700 MWe wind & solar capacity with storage facility in the pipeline. Besides being a reputable IPP, our investments which has localized PV production in Turkey with more than 80% local content supports affordable solar expansion both in Turkey and in the Region. We are proud and thankful having received UKEF support for the construction of largest European Solar Power Plant in Konya. Kalyon-UKEF-GE-JPM team surely executed great contribution healing our lovely planet. Kalyon Enerji is also planning investments in green hydrogen and ammonia as part of its commitment to play its role in green transition.



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## **INOGEN RENEWABLES**

[www.inogen.com.tr](http://www.inogen.com.tr)

Inogen is a knowledge-based project company to develop innovative solutions for Solar Power Plants and products in emerging technologies. With our production and engineering infrastructure, we develop solutions for open-field installations in the energy industry, roof installations for energy-consuming plants, and conversion of houses to solar energy, and create special financing opportunities for plants with high energy consumption. Inogen aims to establish business on a sustainable base to keep the society to survive in a healthy and prosperous way.

Founded by two academicians in the field of material science as a start-up company, Inogen has today reached more than 1000 employees , five sub-companies and 2 GW + track record as a solar EPC. In addition to these, using our academic experience, we produce innovative solutions and carry out research-development in 4 different categories: energy storage, hydrogen technologies, charging stations and biofuel technologies.



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## **AKFEN RENEWABLE ENERGY**

[www.akfen.com.tr](http://www.akfen.com.tr)

Akfen Holding is one of the leading companies in Turkey, especially with a focus on infrastructure and energy. Akfen had shares in TAV Airport, Mersin International Port and many other important businesses in Turkey. Together with PSA from Singapore and IFM investors from Australia, Akfen still operates Turkey's largest seaport, which is also the country's largest container port. We have also construction based works like hospitals and student housing. The hospital portfolio has over 2000 beds capacity and the student housing has over 9000 beds capacity. Akfen also contributes to the mining business in Turkey. In addition we operate 20 hotels with Accor Group in Turkey and in Russia.

Akfen Renewable Energy is one of the most important company in the group. It contributes to Turkish economy through its upgraded power plants, the majority of which were built in the last five years. The portfolio includes 13 operational HEPPs with a capacity of 236 MW, 35 operational SPPs with a capacity of 121 MW, and 6 operational WPPs with a capacity of 349 MW; totally 706 MW renewable energy. EBRD and IFC also have total share of %33,1 in Akfen Renewable Energy.



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**GAZBİR**

[www.gazbir.org.tr](http://www.gazbir.org.tr)

Gazbir is an NGO serving as the umbrella organization of natural gas distribution companies operating throughout Turkey. Their main functions include researching developments in the urban natural gas distribution sector; acting together with the public and private sectors to facilitate coordination between distribution companies and improving service quality for natural gas users. They have been working on natural gas-hydrogen blended projects in Turkey.



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**KALE SERAMİK**  
[www.kale.com.tr](http://www.kale.com.tr)

Kaleseramik, the leader of the Turkish ceramics industry operating under the umbrella of Kale Group, is the fourth largest ceramic tile manufacturer in Europe and the 17th in the world. Kaleseramik, which pioneered the establishment of the Turkish ceramics industry reaches consumers with 400 sales points in more than 100 countries as a major player of the international ceramic market with its brands Çanakkale Seramik, Kalebodur, Kale, and its Italian brands Edilcuoghi, Edilgres and Campani. Realizing Turkey's first ceramic export in 1962, Kaleseramik aims to reach a permanent market share by comprehensively analyzing the preferences and expectations for ceramic coating and vitrified products in the target countries. Italy, the ceramic base of Europe where Kaleseramik realized a brand investment in 2011, has become the third biggest one among the target countries as of today. Kale Group opened three showrooms in Pakistan, Qatar and Morocco. Kaleseramik became the first Turkish ceramic company to enter the Pakistan market as a dealer with the Kale showroom opened in Lahore at the beginning of 2016. Kaleseramik realized a factory investment of 145 million TL in total in the last two years with the aim of increasing its production power. Kaleseramik, which started production in its new granite factory in 2016, also realized the KaleSinterfleks investment and new wall tile masse preparation facilities this year. By increasing its ability and capacity to produce innovative and thin tiles thanks to these factories, Kale Group now is the firm that offers the biggest large-sized tiles product range to the industry.



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**Eksim Enerji A.Ş.**

“Part of Eksim Holding, Eksim Enerji is among Türkiye’s prominent renewable energy producers, following and shaping most recent trends and technologies, leading its sector. Eksim Enerji develops and establishes high capacity projects, relying fully on its own resources and at the highest standards, respecting the ecology of the planet in all processes. Eksim Enerji has a clean, renewable energy portfolio of 1,601 MWs total power in Türkiye, Georgia and Ukraine; 631 MW of which is in service, 67 MW under construction, and 903 MW licensed. Along with its energy production, Eksim Enerji is also an energy wholesaler. Eksim Enerji affiliate Eksim Elektrik sells electricity to corporate clients from its renewable sources”



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## **DBT**

The UK's Department for Business and Trade (DBT) helps businesses export, drives inward and outward investment, negotiates market access and trade deals, and champions free trade

### **Disclaimer**

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