

Welcome to House of Energy

Energy Cluster Denmark

House of Energy is the Danish energy cluster that brings together the various players of the energy sector – companies, authorities, utility companies and investors. We organise Danish expertise in an effective, intelligent and integrated energy system, and we offer access for companies to the right information and the right people, who can inspire, boost ideas for new projects and help with financing.

Denmark is one of the first countries working towards achieving 100% sustainable energy, and that can only be achieved if the entire energy sector works together across technologies, systems and stakeholders – from energy production, distribution and storage to the end-user delivery.

House of Energy encourages all companies and organisations working with sustainable energy to join us in attracting capital, creating new jobs, new export opportunities and new breakthroughs in applied research.

Together, We Can Do More

As a member of House of Energy, you can meet other stakeholders in the energy sector and establish cooperation that can lead to new projects, products and access to new customers and markets. We connect academia and business, provide your company with access to universities, and facilitate the application of research results into new solutions.

Moreover, House of Energy functions as secretariat for a number of national and international projects, and we help you get co-financing from the European Union (EU).

We are the single point of entry to skills and resources in the field of energy. The cluster secretariat consists of experts who help members find the right partners in Denmark and abroad, creating frameworks for knowledge-sharing and establishing projects. We have the expertise to make your company visible to relevant business partners in Denmark and abroad.

You can be part of the cluster by subscribing.

For more, visit www.house-of-energy.dk



Production companies



Utility companies



Service companies



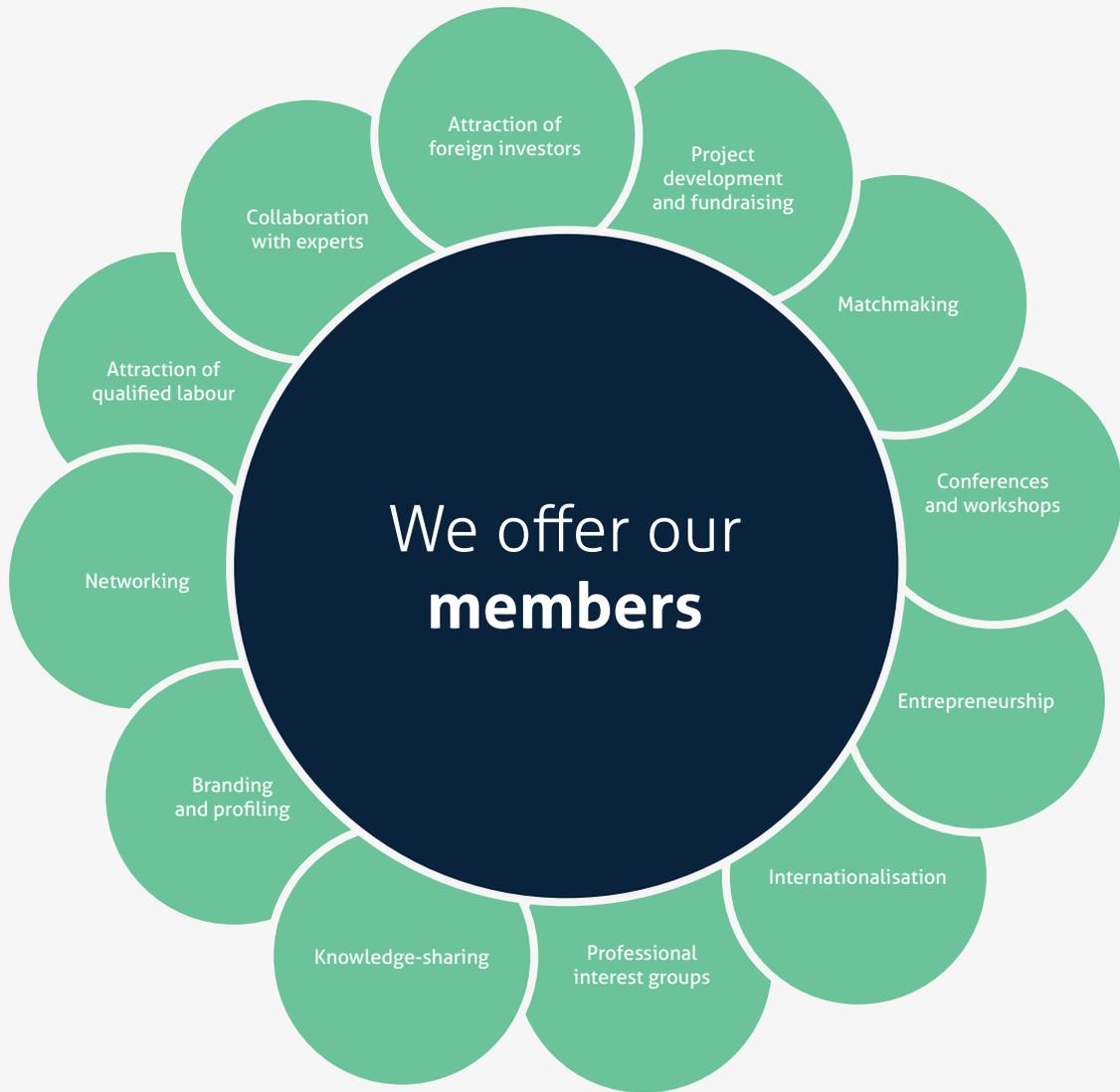
Municipalities



Consultants and advisors



Knowledge and educational institutions





Integrated Energy Systems

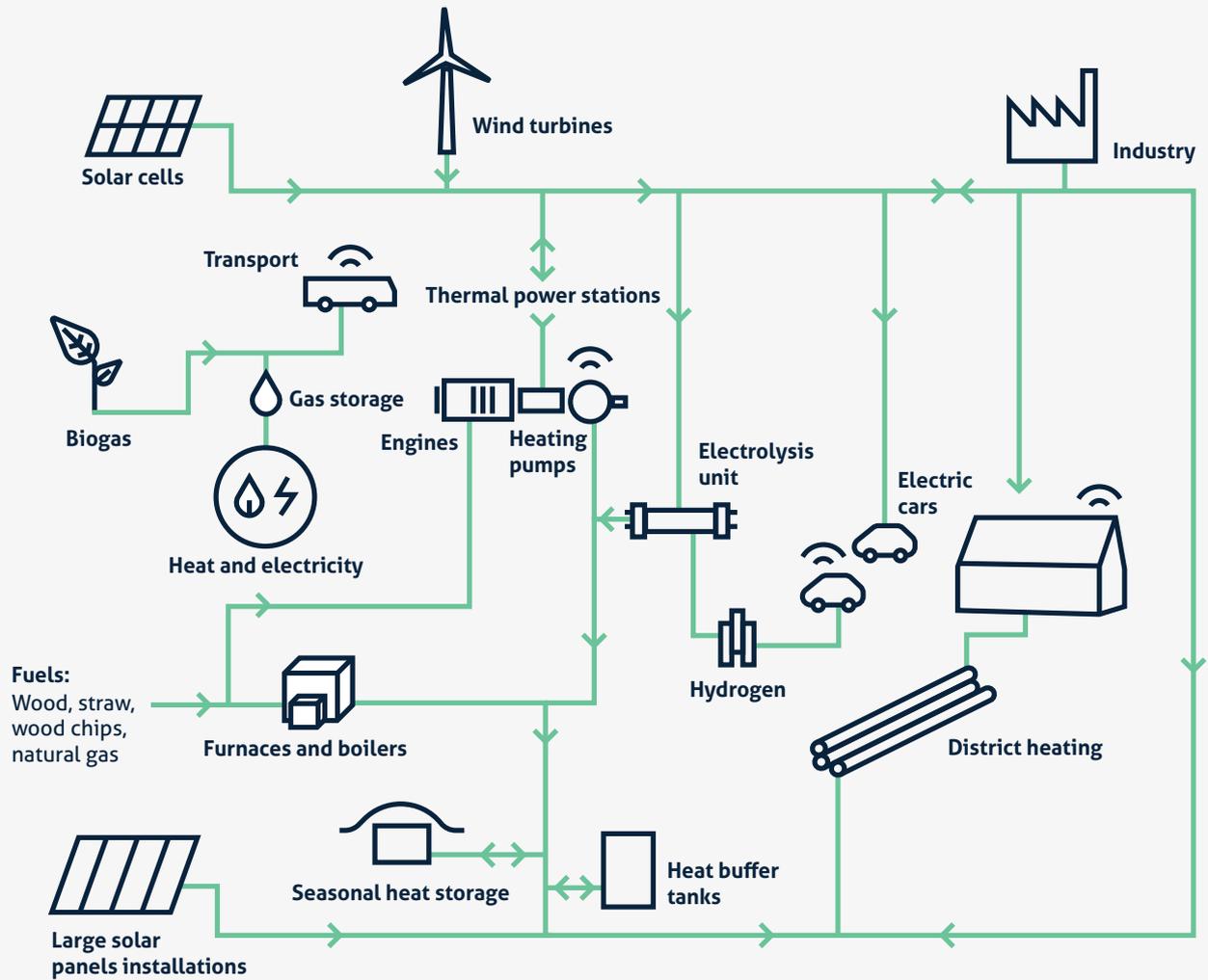
In the future, the supply of electricity, heating, gas and water, as well as engine capacity for the transport sector, must be joined in effective, intelligent and integrated solutions utilising the energy optimally.

The general energy supply is increasingly made up of sustainable, fluctuating energy sources such as solar and wind power. That challenges the energy system in terms of maintaining energy security and securing stability. As sun and wind power are not constant, the need for flexibility, energy storage and energy conversion options increases.

An important part of future energy systems is the relationship between people and energy. Our actions impact our energy consumption, which in turn changes through the introduction of new technologies. We should utilise sustainable energy when available, and a sustainable future calls for the development of smart energy systems, where production matches consumption.

The gas grid will play an important role in the integrated energy system of the future – partly because green gasses like hydrogen and biogas increasingly will replace natural gas, and partly due to the fact that the gas grid has the capacity to store large amounts of energy that can be converted into electricity or heat when needed. The same goes for the district heating system, which too is of critical importance to energy storage and the use of electricity to power heat pumps.

The energy system can benefit from being digitalised based on technologies and principles such as smart cities, artificial intelligence, machine learning, big data and the Internet of Things. The mounting of sensors and digital meters is in progress and data represents a valuable foundation for future work with an intelligent and flexible supply sector.



Energy Day Brings the Energy Sector Together

In 2018, House of Energy launched Energy Day, Denmark's new energy conference, which has been well received by the more than 200 participants. In the future, Energy Day will be an annual event creating a platform for companies, utility companies, public players and knowledge institutions to meet. We present opportunities for innovation, partnerships and financing, which can lead to future solutions and a stable, sustainable and intelligent energy supply. Energy Day is organised in cooperation with other Danish clusters, networks and professional associations, and the program includes the sharpest minds in the industry.



House of Energy Connects Denmark and China

The Chinese organisation National Eastern Tech Transfer Center (NETC), which is a union of several thousand companies, universities and public organisations, has opened a new innovation centre in Aalborg. The Chinese Nordic Innovation Center (CNIC) will strengthen the cooperation between China and the Nordic countries and promote investments, knowledge sharing and cross-regional business relations. In China, Denmark is known as a frontrunner in the field of energy. A field that the Chinese are heavily invested in.

House of Energy has been chosen as CNIC's energy cluster partner and we have already connected Danish Danfoss and Chinese Aowei. The two companies have identified a common interest in batteries, super capacitors, and potential application areas. A potential for solid cooperation between the two companies exists, and Aowei has already begun establishing its European headquarters in Denmark.





Project GREEN Helps SMEs with Green Conversion

The focus of the House of Energy project, GREEN, is to improve the energy efficiency of small and medium-sized enterprises. 250 companies will be energy screened, and the 85 companies presenting the greatest efficiency potential will be offered funding for the development of a green business model. 15 of these companies will later receive additional funding to implement the identified measures. The project strengthens the SME's competitiveness, creates jobs and reduces CO₂ emissions. Consequently, the results are communicated for learning and inspiration in order to develop future best practice solutions within energy efficiency.

Supported by the European Regional Development Fund.



INDDHEAT Contributes to Sustainable and Climate-Friendly District Heating

The INDDHEAT project helps a number of district heating plants to phase out fossil fuels and ensure massive CO₂ reductions. The district heating plants are set to implement projects with a total investment of more than half a billion kroner. The projects include, among other things, heating pumps, remote cooling and renovation of the pipeline network. The EU supports the projects with up to 90% of the technical consultancy costs, and the projects are expected to result in an overall CO₂ reduction of 40,000 tonnes annually and the creation of 500 jobs within the project phase through to mid-2021.

Supported by European Local Energy Assistance, ELENA, which is a joint initiative between the European Investment Bank and the European Commission.





District Heating



Green Gasses



Solar Energy



Energy-Efficient Solutions



Integrated Energy Systems



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