



## FOUNDING AN INTERNATIONALLY ACKNOWLEDGED ENERGY INDUSTRY

Decades of innovation in new energy technologies as well as consistent and pioneering efforts of the private and public sector, has made Denmark able to offer environmentally friendly and cost-efficient technology within the renewable energy sector, particularly within the wind and biomass, but also in state-of-the-art products for the district heating sector.

### STATUS OF THE DANISH EXPORT OF ENERGY TECHNOLOGY

Energy technology is a large industry in Denmark, currently employing 30.000 full time workers at more than 500 companies. Accounting for 10.8 pct. of exported goods, compared to 6 pct. in 2000, the Danish exports of energy technologies make up a much larger proportion of the exported goods than in other European countries. Along with a world class energy technology

#### WHAT IS ENERGY TECHNOLOGY AND EQUIPMENT?

Energy technology and equipment covers all goods used for extracting, processing and producing energy, including renewable energy and energy savings.

The goods need not be energy-efficient; however, it is a general assumption that new solutions are usually more efficient than the ones they replace. Since the energy industry is the largest emitter of greenhouse gases, energy technology and equipment represent a great reduction potential.

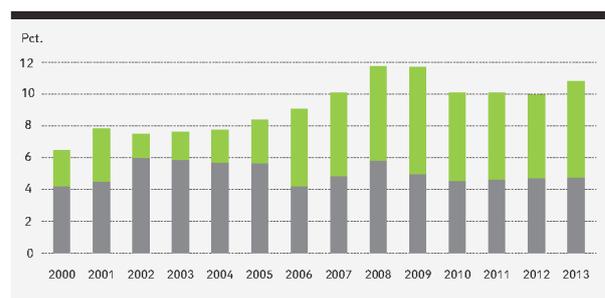


Figure 1: The share of energy technology in the exports of goods. Green is green technology, grey is other technology.

sector, the Danish central administration has broad knowledge and experience with policy development, regulation and planning of the energy sector that supports the technology sector, as well as secures a green energy sector with a high security of supply.

The total Danish exports of energy technology amounted to 67.6 billion DKK in 2013 and have consistently risen the last three years, almost reaching the record-year of



2008. If only Danish exports of green technology are considered, this was the highest ever in 2013. Green technology exports make up 56 pct. of the total exports of energy technology, and are thus the engine behind the increased Danish energy technology exports. Specifically Denmark is a frontrunner when it comes to energy technologies in the wind-, biomass and the district heating sectors, covering all parts of the chain of supply.

#### DANISH EXPERTISE EXPORTED GLOBALLY

Globally, Denmark exports energy technology to numerous countries. The European market receives most of the Danish energy technology exports, but increasingly also BRICS countries have begun to show an interest in Danish solutions. Growing urbanization and a focus on pollution and environmental issues has led to a demand for energy efficient and renewable energy solutions – fields in which Denmark holds vast expertise.

Danish companies have traditionally exported wind technology, which still accounts for the largest part of green Danish exports. Recently also energy efficiency and district heating have shown increasing export potentials. In Denmark energy efficiency has been prioritized for decades in both building and industry, accordingly, Denmark has some of the highest energy efficiency levels in the world. Energy efficiency has been one of the reasons why Denmark has been able to maintain high growth without increasing energy consumption – an interesting development seen from an export perspective.

#### AN EXAMPLE OF DANISH TECHNOLOGY EXPORTS:

In the Chinese prefecture city of Anshan, an urbanised area the size of the Danish island of Zealand, a district heating project is currently being implemented. It focuses on energy efficiency by using excess heat from the steel industry in the district heating grid. This reduces the cost of heating by reducing the use of coal, as well as improving the quality of air. One of the main technology providers to the project is the Danish company Danfoss. The contract is the biggest in China for the company so far and it further supports the expectations that Danish companies can play a key role in securing the success of energy projects in the years to come.

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