











Introduction to



State of Green









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Sharing Denmark's green know-how

State of Green Tours Technical visits for international decision makers

Virtual Site Visits

360-degree videos of Danish site visits, e.g. OSW and district heating

GREEN TALKS, GREEN INSIGHTS, GREEN DIALOGUES

Online high-level webinars targeted international audience

Events

Export promotions, exhibition stands, conferences, royal visits, etc.

Website

The world's gateway to Denmark's green solutions and know-how P4G



House of Green Interactive visitors' center for international delegations

> **Press & Communication** International media relations and news publications

White Papers Publications and knowledge papers within sector areas and Danish green strength areas

Green Hubs & Access Cities





We create connections



across the globe





State of Green white papers







State of Green 🕥

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STATE OF GREEN



Introduction to

1970



State of Green

As an organisation

As a nation





Stepping stones

- 99% dependent on imported energy
- **Oil crisis** with soaring prices hit Denmark's economy hard
- A wake-up-call: From energy security to energy diversity

Energy and resources

X

2050



Renewable energy in energy consumption



Water savings since 1980



Share of household waste recycled





Stepping stones

- 1971: World's first **ministry of environment** is established
- 1976: Denmark's first national **energy action plan** is introduced
- 1985: Denmark's parliament: No to nuclear
 power yes to expansion of wind energy
 capacity to 100 MW and focus on energy
 efficiency

Energy and resources

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2050



Renewable energy in energy consumption



Water savings since 1980



Share of household waste recycled



1985



1970

Stepping stones

- 1987: the first **aquatic plans** are made with stricter waste water treatment
- 1997: Denmark becomes **self-sufficient** in energy through own production of oil, natural gas and renewable energy
- Continued focus on **energy efficiency** in industries and households

1997

Energy and resources



X



2050

1970

1985

Stepping stones

- Danish Energy Agreement in 2012:
 Denmark independent of fossil fuels by 2050
- The agreement is characterised by its ambitious scope, broad political support and long time horizon

1997

Energy and resources



X

December 2019: Legally binding Climate Act

- Reduce greenhouse gas emissions by **70%** by 2030 (compared to 1990)
- **50-54% emissions** reduction by 2025 (40% in 2019)
- Climate neutrality in the waste and water sectors
- End oil and gas extraction in the North Sea by 2050
- 13 Climate Partnerships advise the government on industrial green transition
- Construction of two energy islands







Decoupling our economic growth from our CO2 emissions (2019)







District energy in Denmark Fuel sources 2018



Total district energy fuel consumption: 90,659 TJ

Renewable



A proven technology under continuous development





- Sourcing up to 55% of energy needs from renewables and electricity consumption covered 100% by renewables
- **70% reduction in GHG emissions by 2030** (compared to 1990)

EU goals

1985

70%

1970

- Achieving 32.5% in energy efficiency Denmark is set to overachieve target for energy savings by 27%
- 55% reduction in GHG by 2030 (compared to 1990) – to be confirmed June 2021

1997

Energy and resources



X

70% reductions by 2030

- 10 years to make huge reductions



Danish CO2 emissions



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70% reductions by 2030

- All stakeholders on board



13 Climate Partnerships

- Each Climate Partnership represents a private sector/industry
- 400+ recommendations on how to reach the 70% target

20

2050

- Many of them are already implemented in policies
- The energy and utilities sector plans to reduce GHG emissions by 95% by 2030



2050 goal

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1985



- Low carbon society **Denmark** independent of fossil fuels by 2050
- Put an end to all oil and gas extraction

Other effects

- Produce more renewable energy than we consume
- Decarbonise agriculture, transportation and buildings

1997

• Move towards a circular economy

Energy and resources



Share of household waste recycled

2050

2012

Today



2030



1970



and requires collaboration and partnerships

1970

Thank you! Connect. Inspire. Share. Think Denmark



