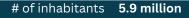


REsilienT water gOvernance Under climate CHange within the WEFE NEXUS

## National water governance strategies and institutional settings: A WEFE nexus perspective

# -Denmark-





Surface area 41 987 km2

No

GDP per capita 136 pps [1]

Significant bodies of **Jutland and Funen; Sealand** water (RBDs)

Polity unitary state organised on a decentralised basis

1.49% (2017) [3]

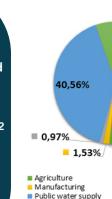
Layers of government

central government; 5 regions; 2 special-status regions (Faroe Islands and Greenland); 98 municipalities

Legislative powers at the sub-national level

Decentralisation index 2.4 (3 out of 27) [2]

Water Exploitation Index plus (WEI+)



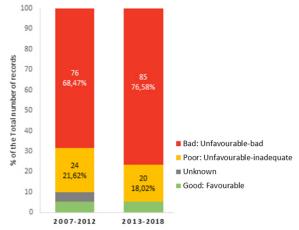
Water abstraction per sector in Denmark - <u>Source</u>: EEA (2022)

56,86%

\_ 0,07%

■ Electricity cooling

■ Mining and quarrying



Conservation status for habitats in 2007-2012 and 2013-2018 in Denmark - Source: EEA (2021)



Water bodies with less than good ecological status in Denmark - <u>Source</u>: EEA (2021)

### Main actors responsible for WEFE nexus relevant governance

## NEXUS PILLARS POLICY MAKING POLICY EXECUTION

**™** Water Ministry of Environment Danish Environmental Protection Agency (Miljøstyrelsen); regional water councils

Energy Ministry of Climate, Energy and Utilities Danish Energy Agency

Food Ministry of Food, Agriculture and Fisheries Danish Agricultural Agency

♦♦♦ Ecosystems Ministry of Environment Danish Nature Agency

### **WEFE NEXUS PERSPECTIVE**

#### **CHALLENGES**

- Reduce the main pressures from agriculture, especially the emissions of nitrogen
- Ensure that conservation objectives and measures are clearly defined, sufficiently detailed and linked with other relevant legislation and plans
- Stimulate the mapping and assessment of ecosystem services
- Support the development of national business and biodiversity platforms

#### **OPPORTUNITIES**

- The <u>Water Valley Denmark initiative</u> stimulates the development and use of innovative water technology that enables water consumption to become more resource efficient, cost effective and quality assured[4]
- Danish <u>water consumption has been</u> <u>significantly reduced</u> by stimulating water utilities to keep their level of non-revenue water below 10% as well as awareness raising of the importance of saving water, systematic leakage detection and implementing modern ICT tools.
- A major effort has been done to identify hindering factors in water management and potential areas for action
- An agreement on a green transition of the agricultural sector in 2021[5] that aims at a reduction of nitrogen emissions



- [2] https://portal.cor.europa.eu/divisionpowers/Pages/Decentralization-Index.aspx
- [3] The threshold for water scarcity is set at > 20%
- [4] https://watervalleydenmark.com/
- $\hbox{\cite{thm:ps://en.fvm.dk/focus-on/the-agreement-on-a-green-transition-of-the-agricultural-sector}} \label{fig:ps://en.fvm.dk/focus-on/the-agreement-on-a-green-transition-of-the-agricultural-sector}$



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More information on

governance in the EU

WEFE nexus





















