

RDF Conference

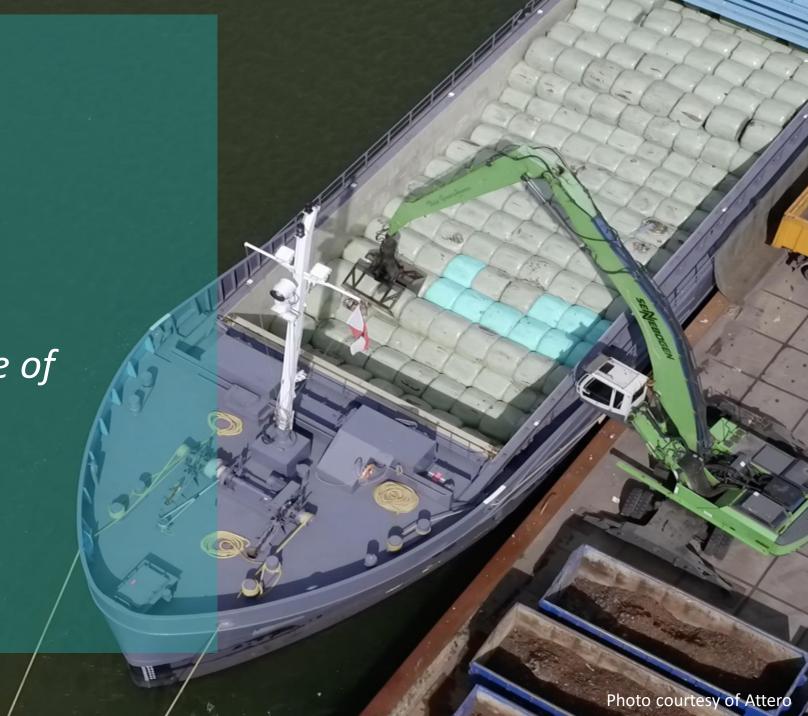
November 2022





Agenda

- Introduction to RDF Industry Group
- Introduction to Future of the RDF Market
- Selected Countries
- Summary



Introduction to the Group Photo courtesy of Attero

Represents organisations:

- across the waste derived fuels (WDF) supply chain
- covering intra-European WDF flows

Aims to:

- work collectively to provide a platform to address issues faced by the sector and to explore new opportunities
- promote efficient utilisation of capacity across Europe

























ALFRED H KNIGHT































































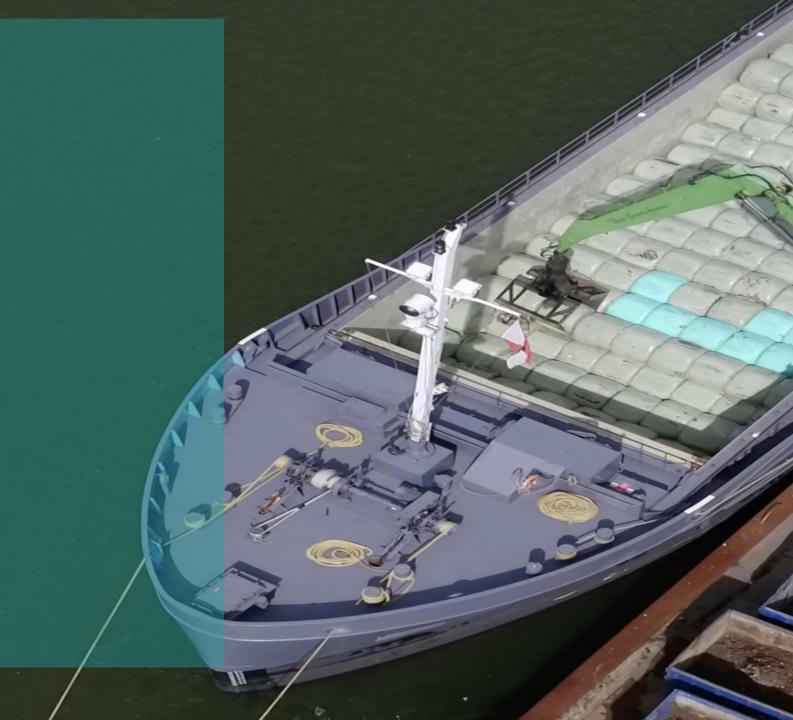


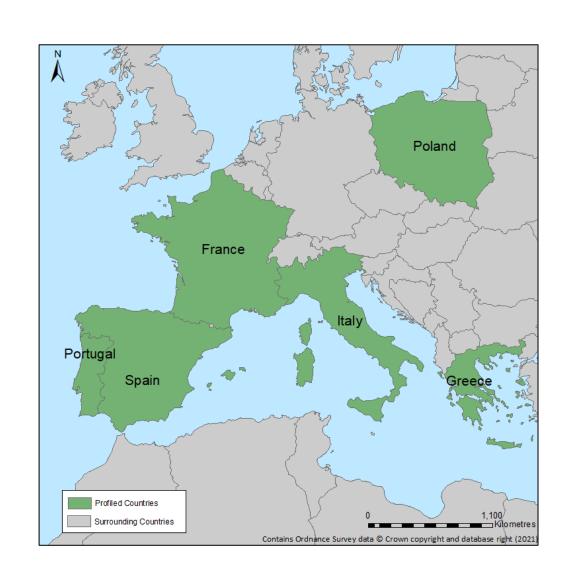


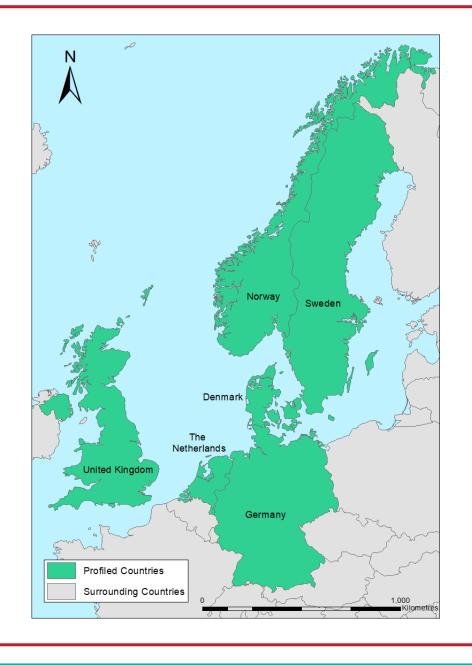




Future of the RDF Market







Historic dominance of western and northern Europe in the WDF export market

The war in Ukraine and reduction in gas supply leading to increases in energy prices

Economic downturn across Europe causing shortages in waste supplies

Past



Present



Future

EU Exit and its impacts on regulation, uncertainty and logistics

Covid-19 and its impacts on waste generation, labour and supply chains

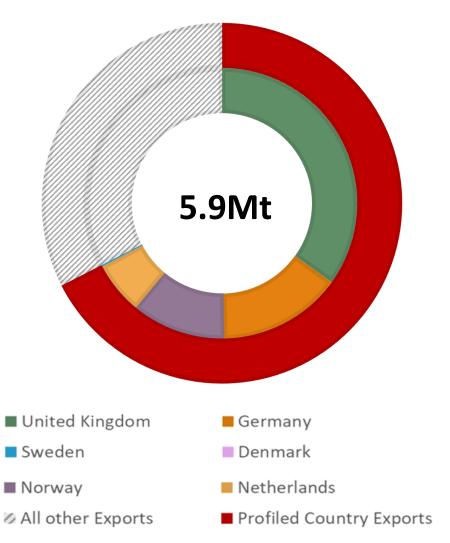
Driver availability and port blockages leading to vulnerable supply chains

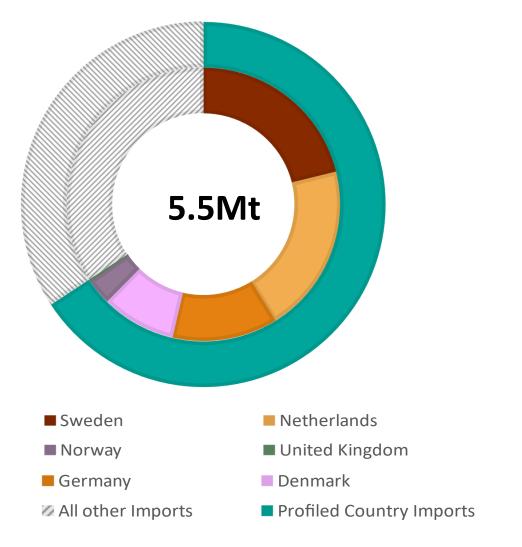
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European Waste Flows

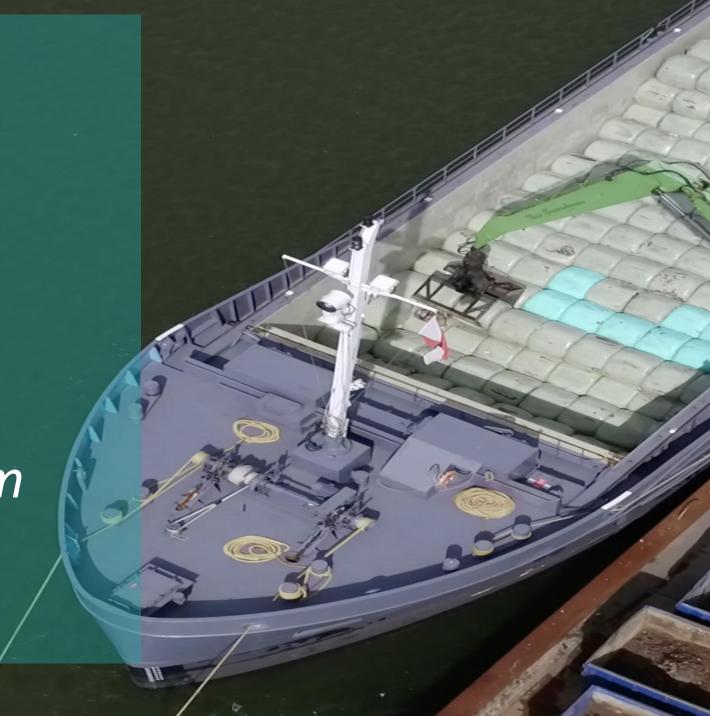
IMPORTS





Selected Markets

- Germany
- The Netherlands
- Sweden
- The United Kingdom



Germany

Overview

- Large (and growing) domestic treatment capacity
- Large cement kiln industry with significant input from WDF as fuel
- Concerns regarding sufficient domestic supply

- European energy crisis >
 increased focus on domestic
 generation
- Inclusion in national emissions trading scheme from 2024

Germany

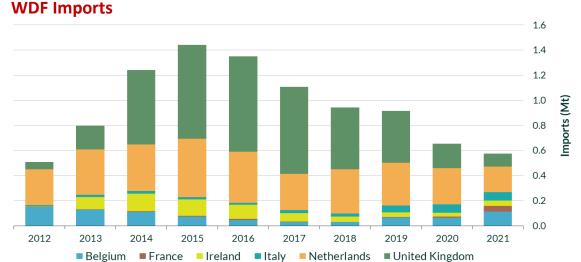


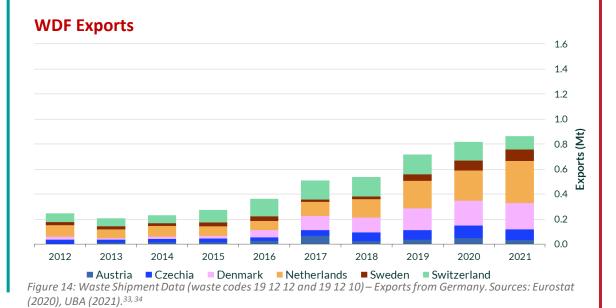
Figure 13: Waste Shipment Data (waste codes 19 12 12 and 19 12 10) – Imports into Germany. Source: Eurostat (2020), UBA (2021). 31, 32

Import tonnages peaked in 2015 and have been declining since

Importing from the UK and Netherlands

Germany is a **net exporter** of WDF, although up to 2020 it was historically a net importer.

Exporting to the Netherlands, Denmark and Sweden



The Netherlands

Overview

- Stable exports
- Surplus treatment capacity
- Ambitious climate targets

- Import and incineration taxes
- Significant pressure to reduce national emissions
- The success of the import tax has been questioned

The Netherlands

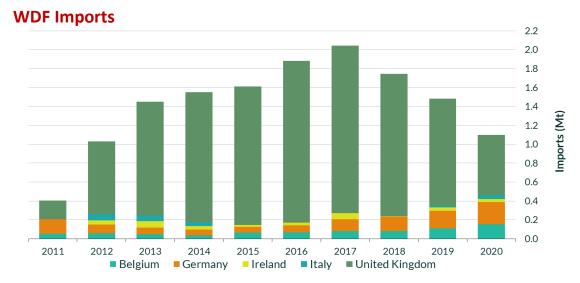


Figure 18: Waste Shipment Data (waste codes 19 12 12 and 19 12 10) — Imports into the Netherlands. Source: Eurostat (2020). ⁵¹

The Netherlands is a **net importer** of WDF... imports peaked in 2017 and have declined since

The UK remains the Netherlands's top importer

Stable (small) exports from Netherlands, primarily to Germany and Sweden

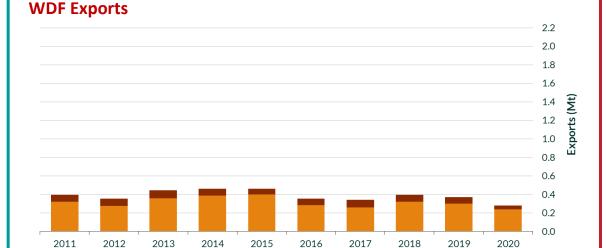


Figure 19: Waste Shipment Data (waste codes 19 12 12 and 19 12 10) – Exports from the Netherlands. Sources: Eurostat (2020).⁵²

Germany

Sweden

Sweden

Overview

- Significant domestic treatment capacity
- Swedish cement kilns focus solely on WDF
- Substantial logistics impacts in vessel-dominated market

- Mandatory fossil-based waste incineration tax will be removed for 2023
- EfW included in national ETS

Sweden

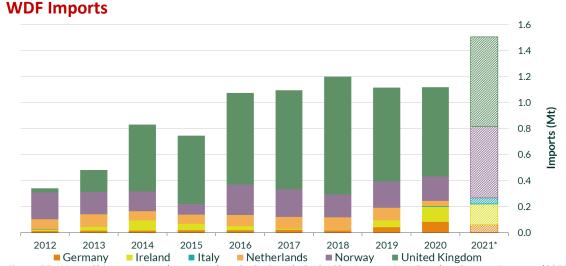
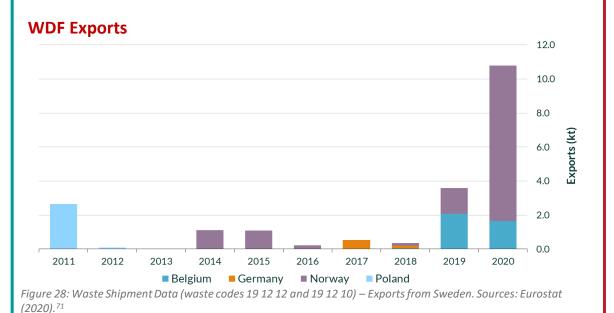


Figure 27: Waste Shipment Data (waste codes 19 12 12 and 19 12 10) – Imports into Sweden. Source: Eurostat (2020), hatched data for 2021 is provisional data sourced from industry. 70

Sweden is a **net importer** of WDF.

Imports have increased (but fluctuated) since 2012, with the input from Italy growing significantly since 2015

Exports were traditionally low but increased significantly in 2020 to Norway



The United Kingdom

Overview

- Significant exporter since 2010
- Growing domestic treatment capacity...
- But policy restrictions on new developments in Scotland and Wales

- No incineration taxes
- Ongoing consultation on including EfW in the UK's ETS
- Rumours of an incineration tax
- Pressure to prohibit waste exports (based on waste crime concerns)

The United Kingdom

WDF Exports

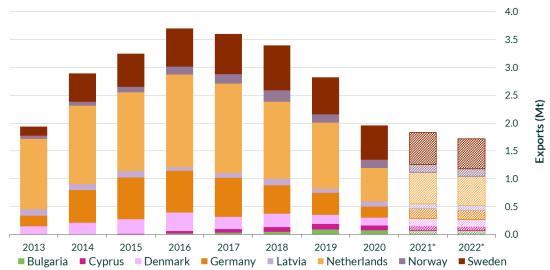


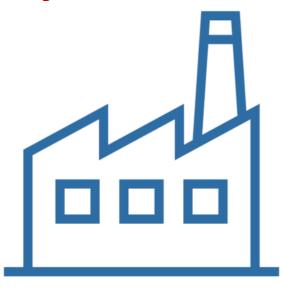
Figure 31: Waste Shipment Data (waste codes 19 12 12 and 19 12 10) — Exports from the UK. Source: Eurostat, *data for 2021 and 2022 is provisional and uses projections which are calculated based on data provided by the EA for England, SEPA for Scotland, NRW for Wales, and the NIEA for Northern Ireland.⁸¹

The UK has never imported WDF as there is insufficient domestic capacity

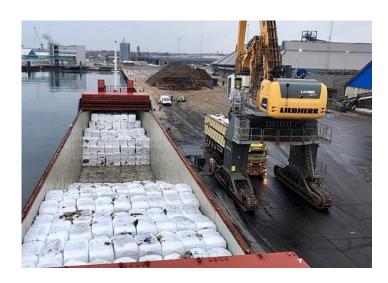
Exports increased from 2013 but peaked in 2016 and have fallen gradually since, with Germany, the Netherlands and Sweden as key export partners

Summary









Thank you

Q&A









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