

RDF Conference

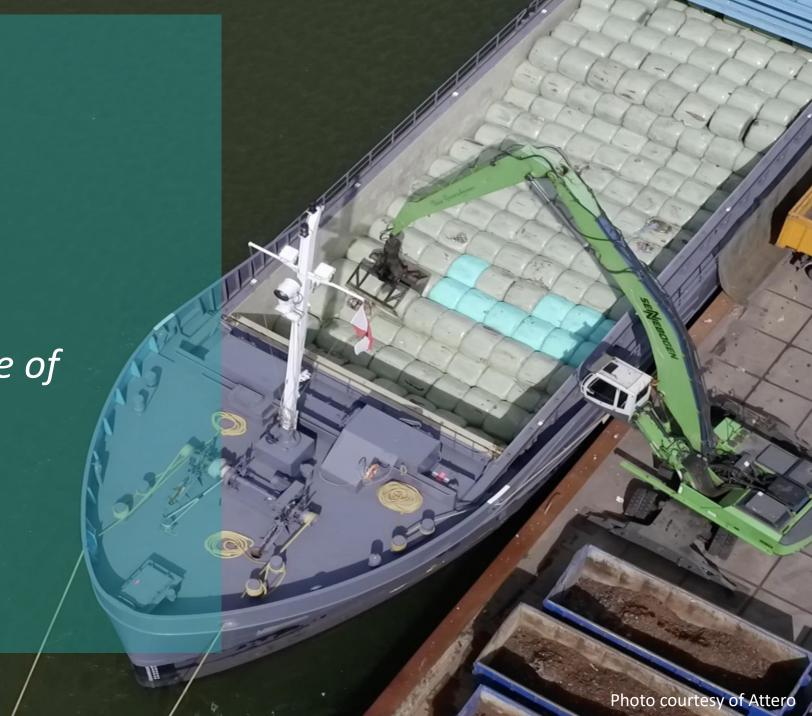
November 2022





# 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** 













































































































































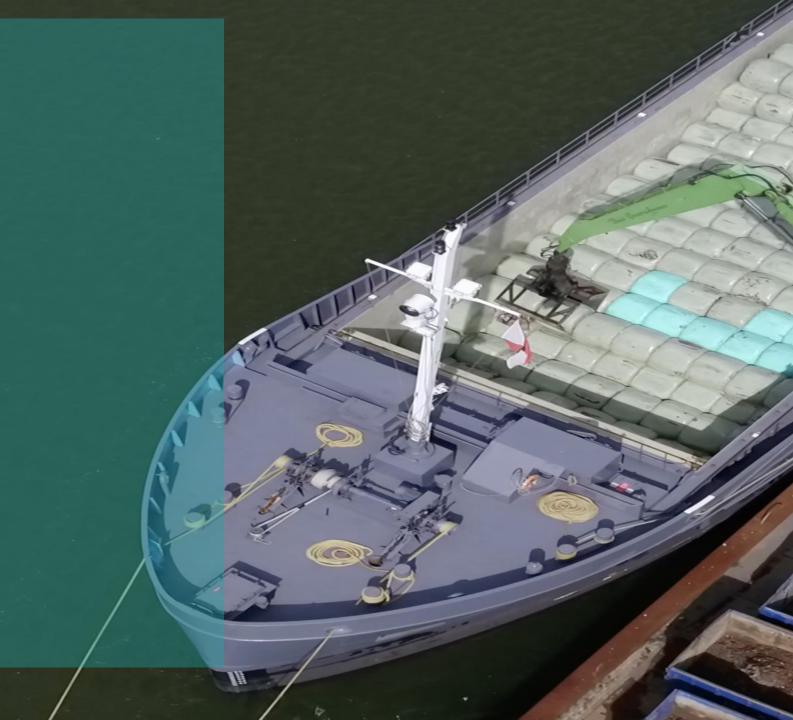


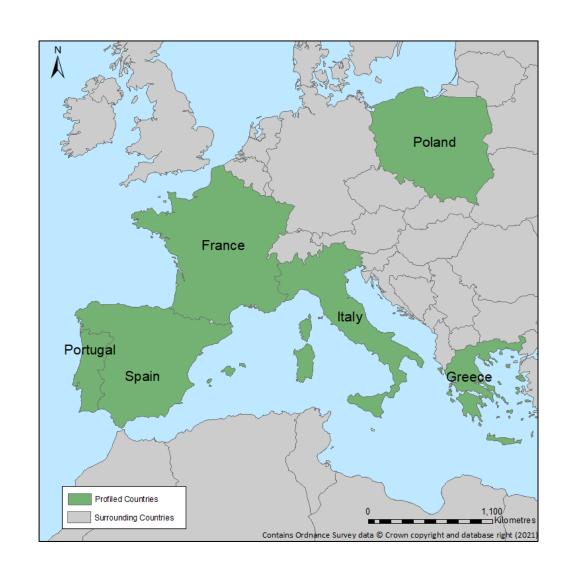


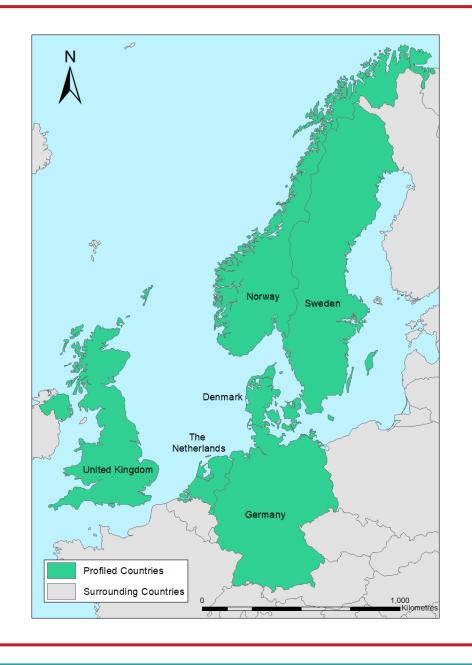




# Future of the RDF Market







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

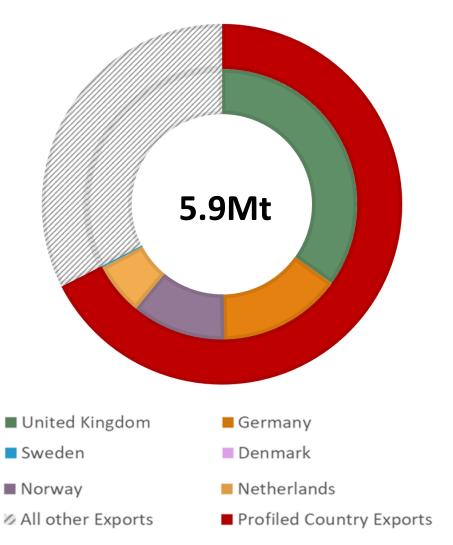
Driver availability and port blockages leading to vulnerable supply chains

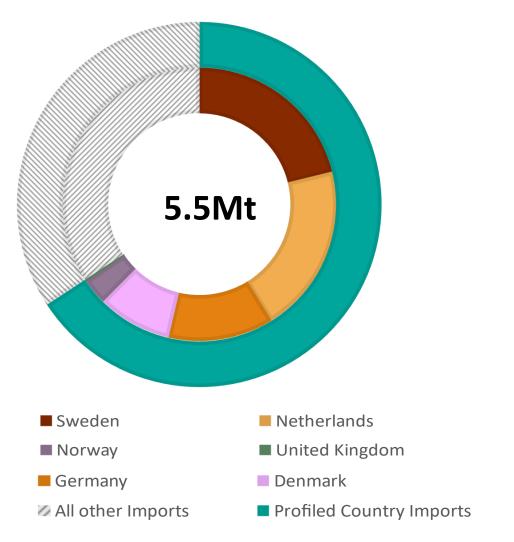
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#### **European Waste Flows**

#### **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**



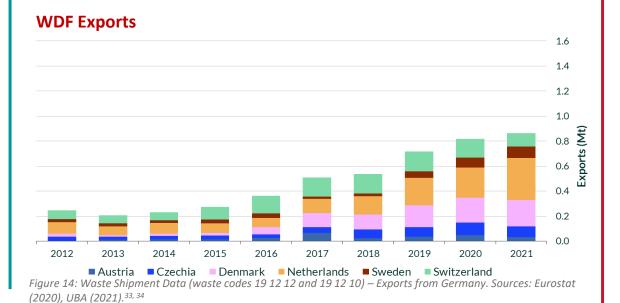
Figure 13: Waste Shipment Data (waste codes 19 12 12 and 19 12 10) – Imports into Germany. Source: Eurostat (2020), UBA (2021).31,32

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

**WDF Exports** 

2011

2012

2013

2014

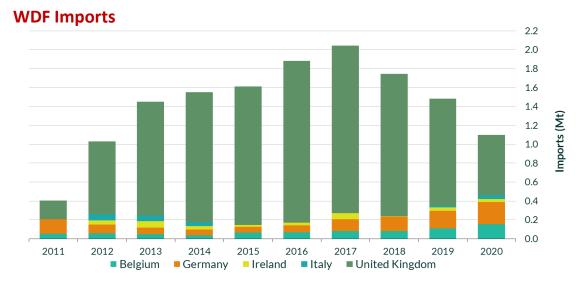


Figure 18: Waste Shipment Data (waste codes 19 12 12 and 19 12 10) – Imports into the Netherlands. Source: Eurostat (2020).<sup>51</sup>

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).<sup>52</sup>

2016

Sweden

2017

2018

2019

2020

2015

Germany

#### 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**

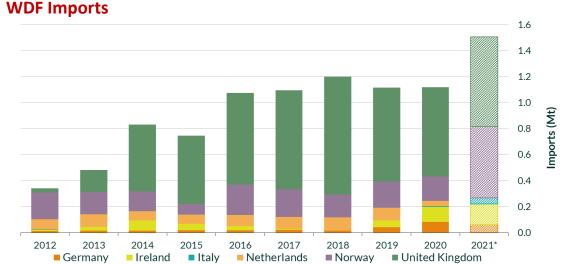
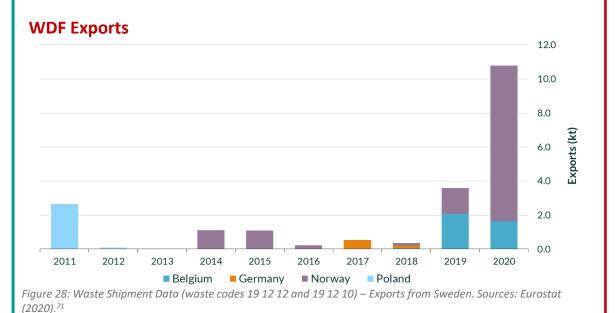


Figure 27: Waste Shipment Data (waste codes 19 12 12 and 19 12 10) – Imports into Sweden. Source: Eurostat (2020), hatched data for 2021 is provisional data sourced from industry. 70

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**

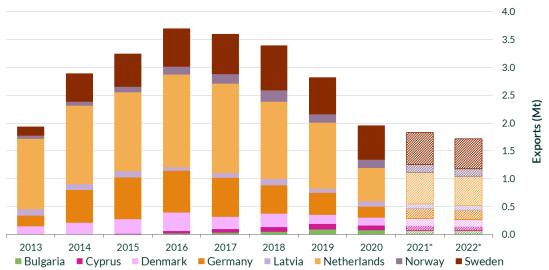


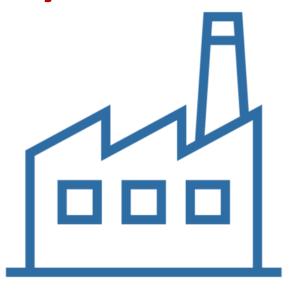
Figure 31: Waste Shipment Data (waste codes 19 12 12 and 19 12 10) – Exports from the UK. Source: Eurostat, \*data for 2021 and 2022 is provisional and uses projections which are calculated based on data provided by the EA for England, SEPA for Scotland, NRW for Wales, and the NIEA for Northern Ireland.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

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

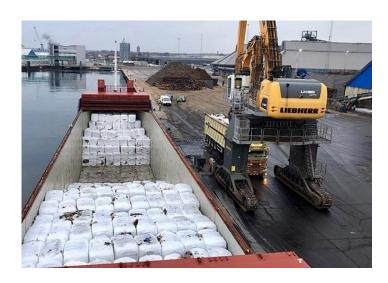
Exports increased from 2013 but peaked in 2016 and have fallen gradually since, with Germany, the Netherlands and Sweden as key export partners

# **Summary**









# Thank you

Q&A









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