North Sea Transition Deal - INTOG

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DeepWind 17/04/24

NSTD
objectives

The UK North Sea Transition Deal, the first by a G7 country, will accelerate the energy transition, reduce UK emissions, and create new jobs across the UK

ROADMAP 2035
A blueprint for net-zero

Make net-zero happen

We will become a net-zero basin, we will help hit UK net-zero targets, we will be part of a fair and equitable energy transition

Grow the economy, jobs and places

We will sustain high skilled jobs, we will bring new energy businesses to develop local regions, we will attract investment and we will grow exports

Provide energy & industrial security

We will supply the UK's oil and gas demand to 2050 and beyond, while ensuring our operations are net-zero

NSTD

5 pillars

The Deal will require an internationally competitive and level playing field as part of a broader energy framework

Supply Decarbonisation
cutting upstream Oil and Gas industry emissions through an ambitious production emissions reduction programme

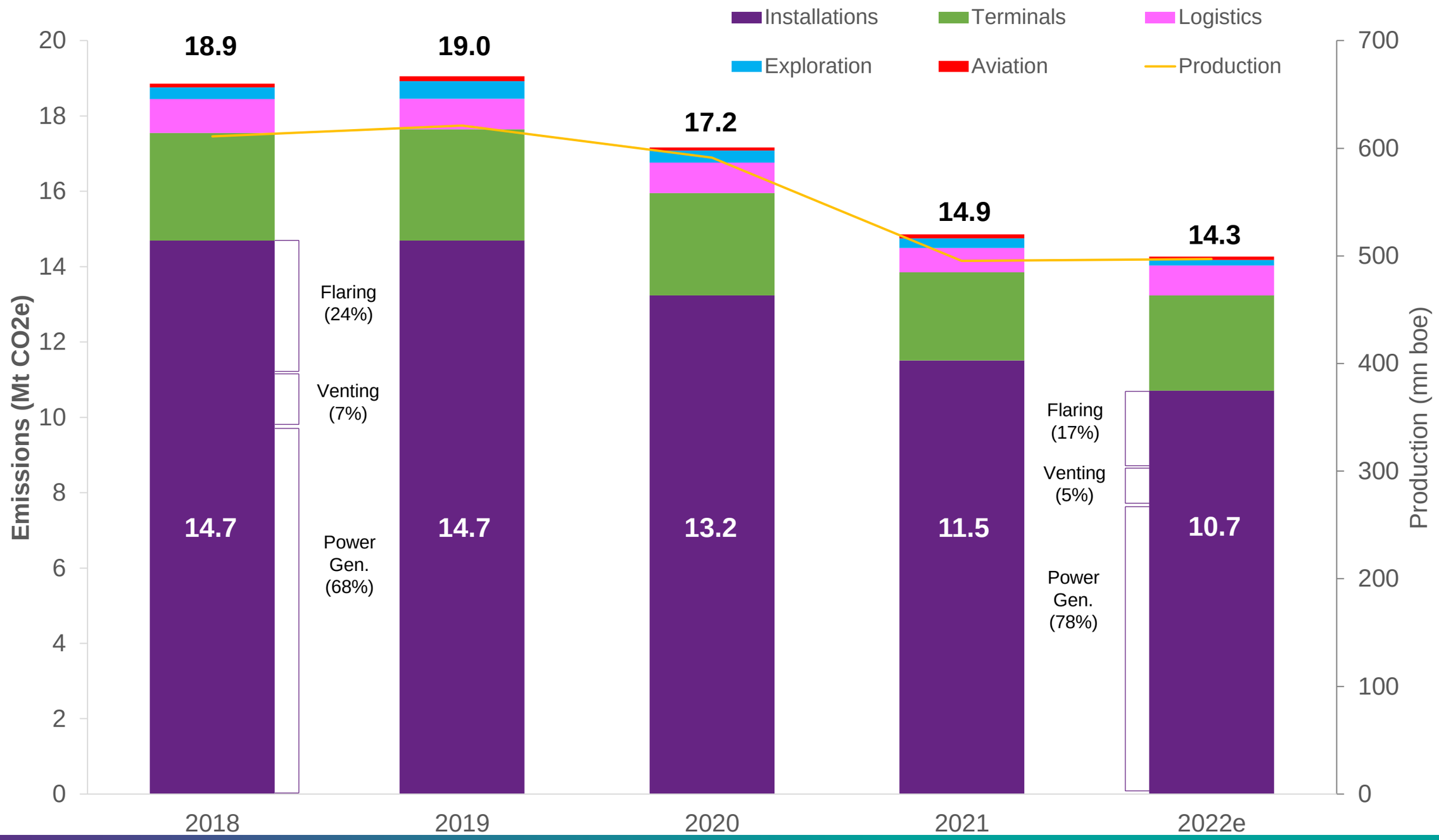
Carbon Capture & Storage
enabling large parts of UK industry and society to eliminate emissions

Hydrogen
providing a realistic alternative for heating, heavy industry, and transport

The above activities will be made reality by focussing on capabilities that underpin the growth of the UK economy

Supply Chain Transformation
Developing engineering, manufacturing, services and technology expertise to support the energy transition and create a globally competitive energy supply chain of international repute

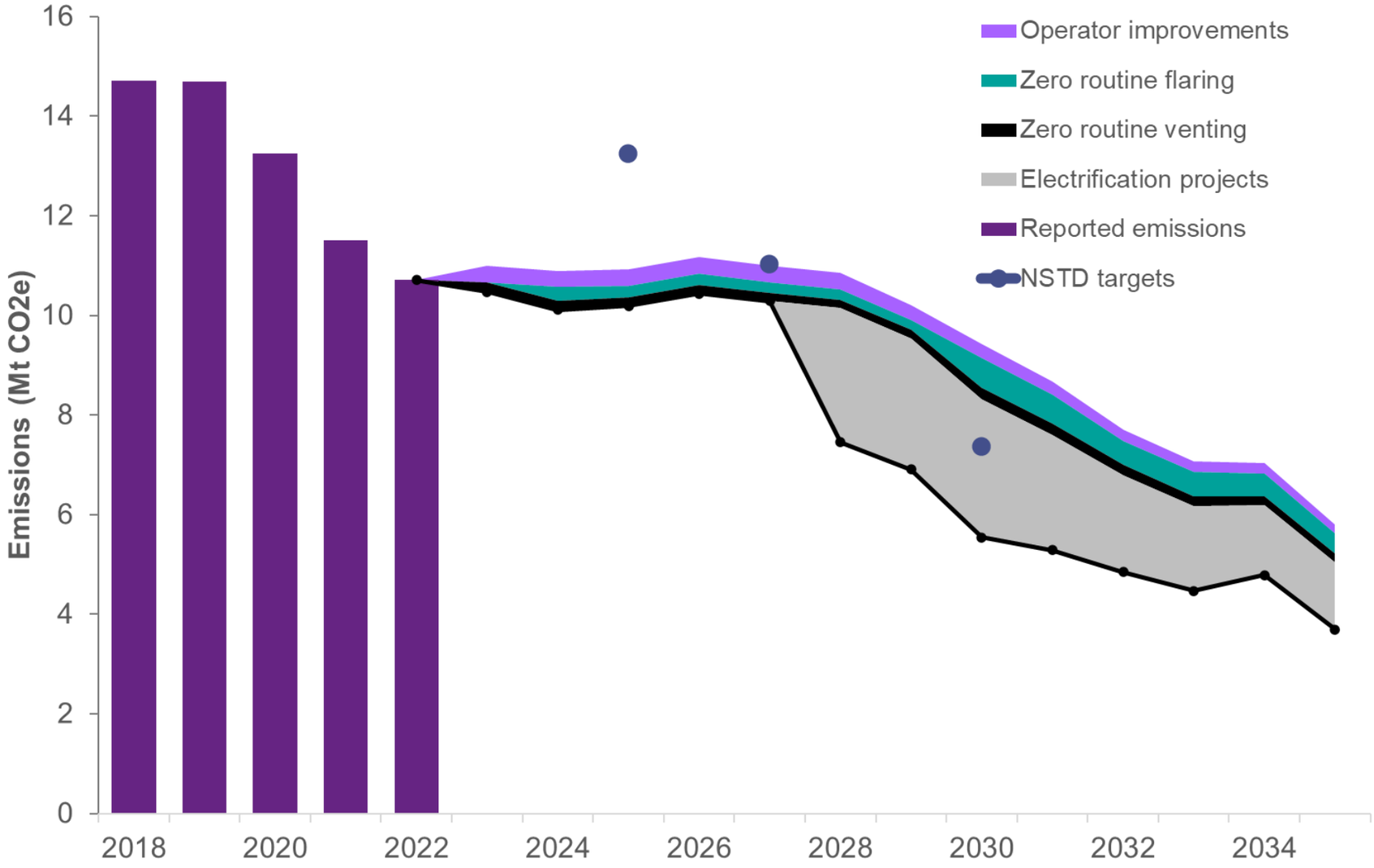
People & Skills
securing, stimulating, and creating tens of thousands of high quality jobs in industrial heartlands



Source: EEMS, ETS, DESNZ, OEUK

Decarbonisation status

OEUK 2023 Decarbonisation report



Concept - Standalone

Hywind Tampen

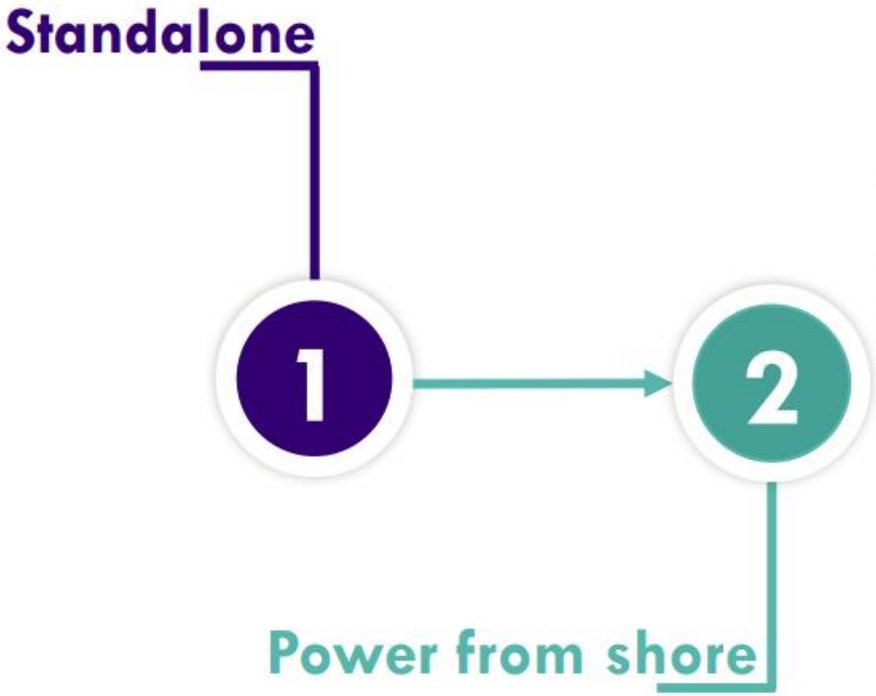
Standalone

1

- **Partial electrification**
- **Dual fuel**
- **Low decarbonisation**
- **Wind power surplus unused**

Concept – Power From Shore

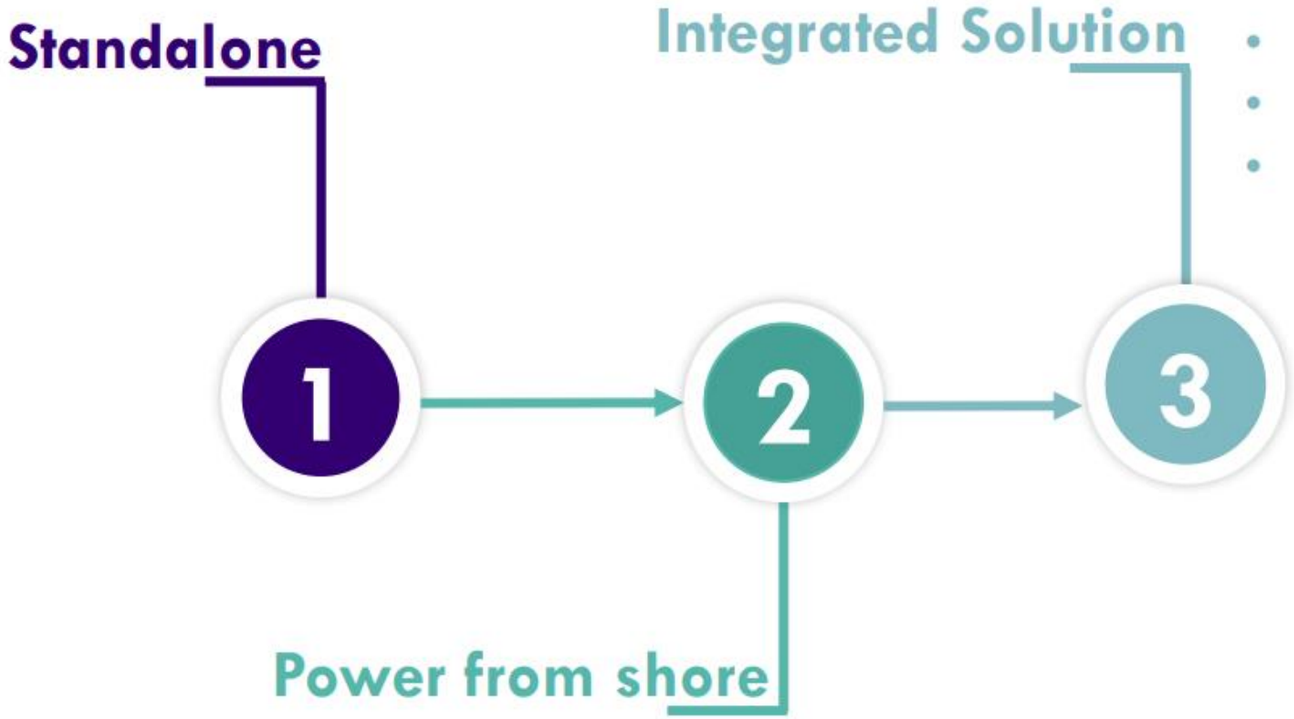
Norway



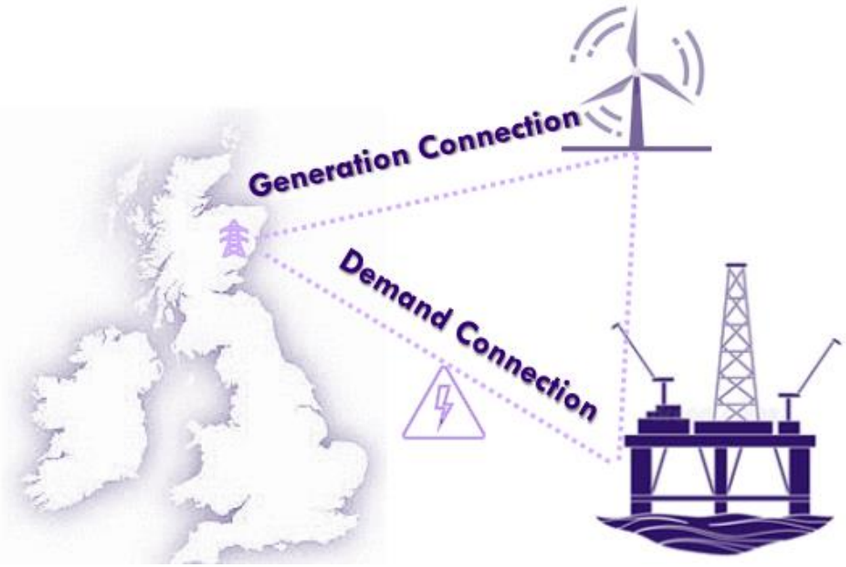
- Full electrification
- Scope 2
- High electricity cost

Concept – Integrated Solution

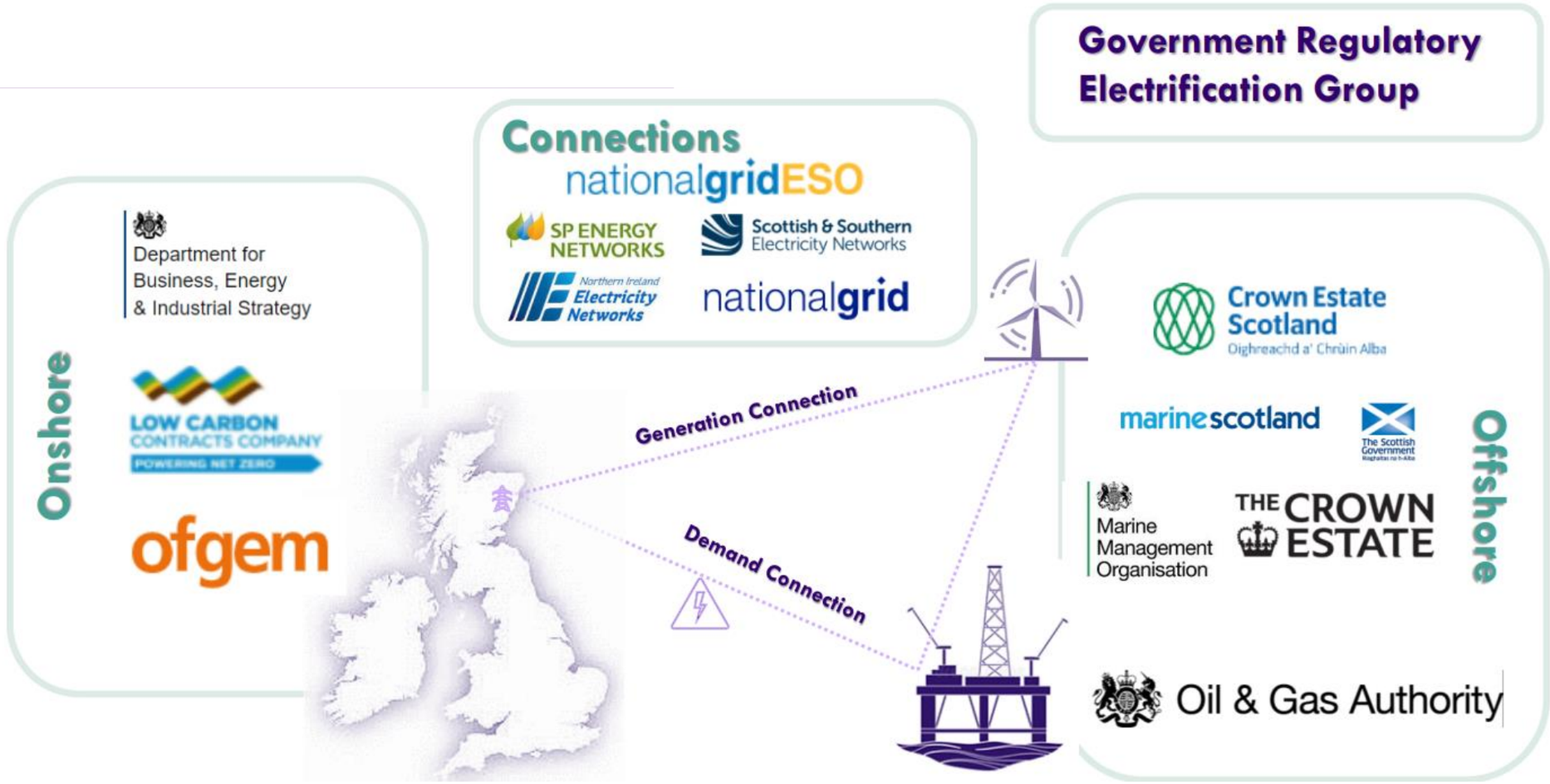
Beatrice



- Full electrification
- Leverage floating wind farm
- Optimum UK energy decarbonization
- Higher level of complexity

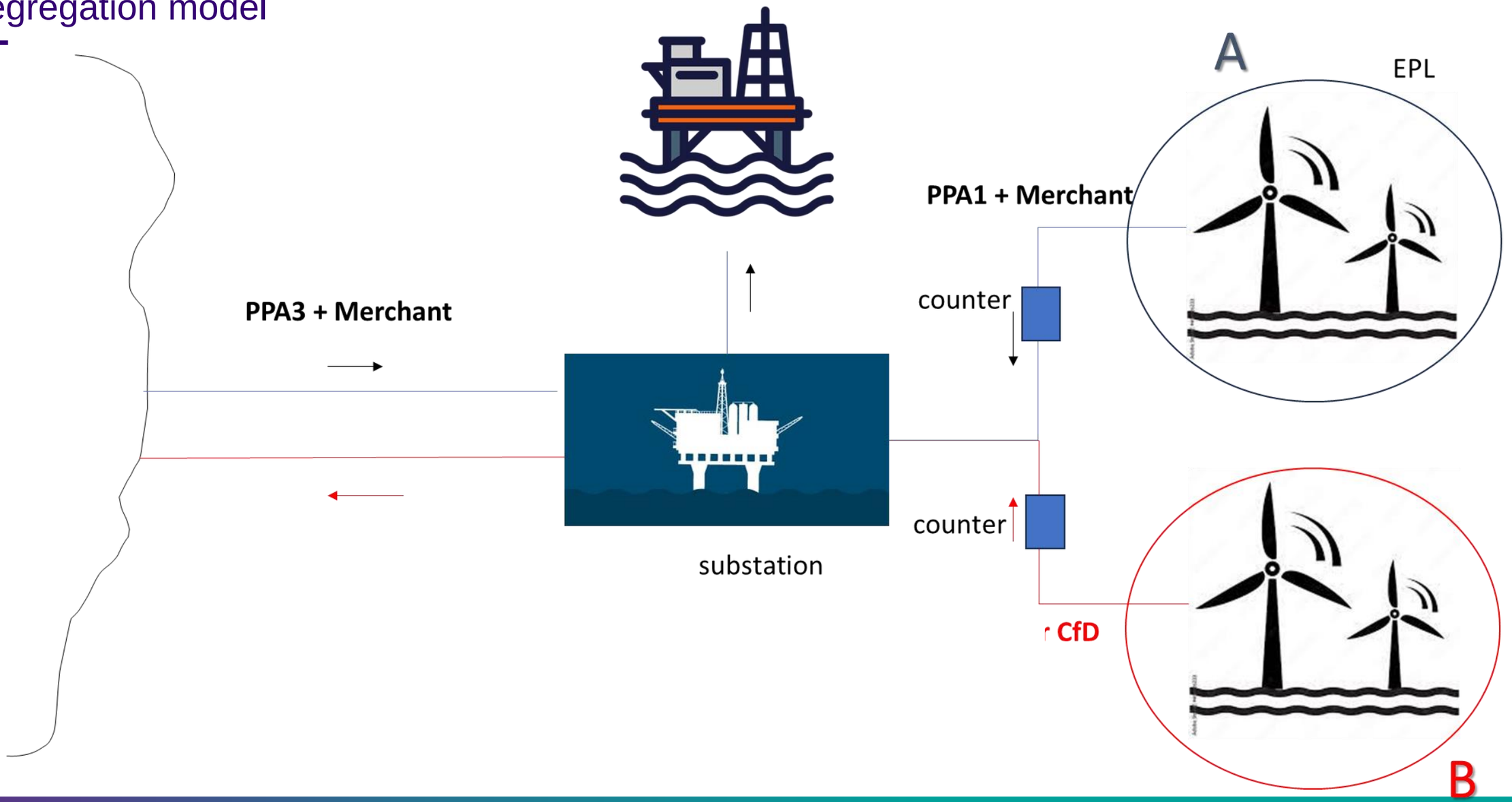


Stakeholders



Electrification

Segregation model



Electrification

Challenges

Access to grid

- Generation connection required before 2030
- Grid bottlenecks

Complexity

- Require regulatory alignment and stakeholder requirements
- Limited precedent: Beatrice (UK), Norway

Timeline

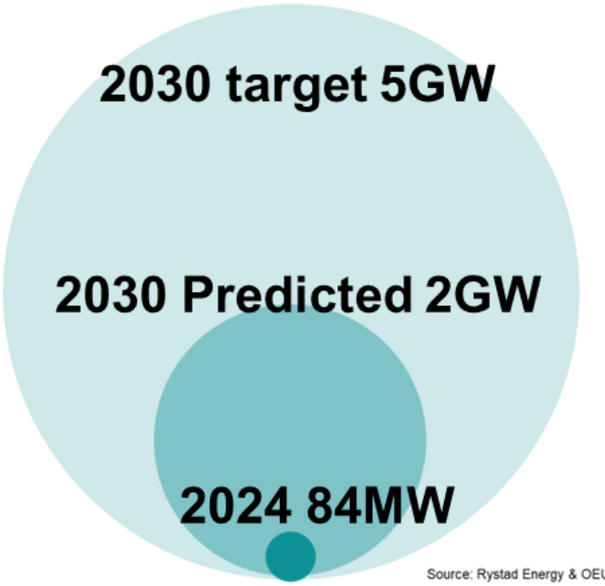
- Diminishing returns of decarbonisation with time
- Supply Chain bottleneck

Affordability

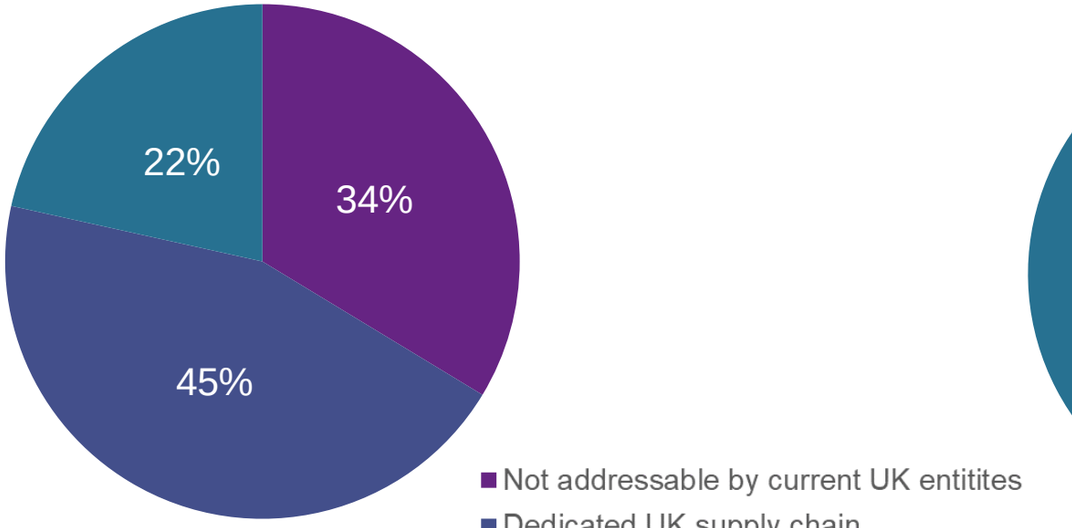
- High retrofitting cost
- High electricity price

INTOG stepping stone to UK transition

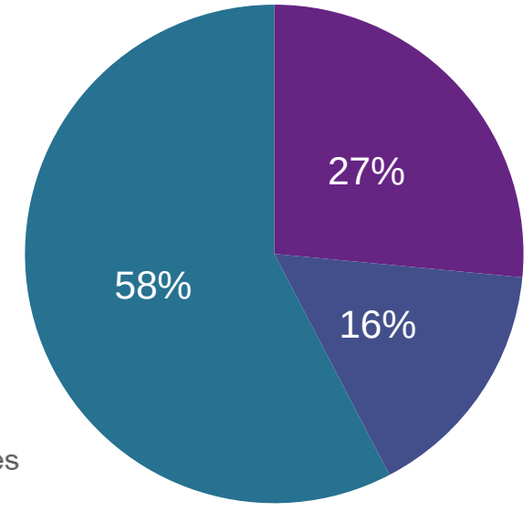
- **Decarbonise UK O&G platform -> maintain licence to operate -> maintain UK Supply Chain**
- **O&G Supply is key to floating wind deployment at scale**
- **INTOG stepping stone for floating wind dominated round (ScotWind and CelticSea)**
- **INTOG necessary to meet UK 5GW target by 2030**
- **Position UK as leader in Floating wind**



Fixed bottom wind UK expenditure by unified supply chain segment 2024-2040



FLOW UK expenditure by unified supply chain segment 2024-2040



Continue the conversation

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OEUK stand at ALL-Energy 15/16 May Gasgow

OEUK wind breakfast Fringe event at All-Energy 15th of May

OEUK Wind Insight Breakfast Briefing at All-Energy Tickets, Wed 15 May 2024 at 07:00 | Eventbrite

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