

Beyond borders

Unlocking the power of UK-EU offshore wind coordination

December 2024

Prepared on behalf of:



Baringa is proud to be a B Corporation. Copyright © Baringa Partners LLP 2024. All rights reserved. This document is subject to contract and contains confidential and proprietary information



Beyond Borders | Preface

Introduction to the Baringa report from Breakthrough Energy

The North Sea is one of the world's most promising regions for offshore wind, which provides the opportunity for the European Union and the United Kingdom to meet shared energy and climate challenges through collaboration. However, realising the full potential of this opportunity requires addressing significant barriers that currently hinder effective cooperation.

The rapprochement between the UK and the EU provides a window of opportunity to harness the benefits of a realignment between the UK and the EU to meet ambitious decarbonisation targets – working collaboratively to accelerate deployment efforts in the North Sea.

This report focuses on identifying and addressing inefficiencies and barriers to deployment that have emerged in the post-Brexit landscape. These include suboptimal trading arrangements, stalled progress under the Trade and Cooperation Agreement (TCA), the erosion of coordination between network operators, and divergent processes in planning and supply chain procurement.

The consequences of these barriers are leading to missed opportunities for material project cost savings, delays in project delivery, and fragmented efforts to capitalise on the region's vast offshore wind potential. All of these issues lead to higher costs for consumers and impact economic growth and productivity. By addressing these issues, policymakers can unlock substantial benefits for UK and EU citizens and business. This report provides a comprehensive analysis of these barriers and offers recommendations to address them. It emphasises the need for renewed dialogue and the alignment of regulatory and policy frameworks to support cooperation. Only through such efforts can the EU and the UK fully leverage the strategic advantages that the North Sea offers, achieving the shared goals of energy security, decarbonisation and affordability.

We hope this report serves as a foundation for decisive action, inspiring the collaborative spirit needed to enable the North Sea to be a global energy powerhouse.



Philipp Offenberg Director, Breakthrough Energy Europe



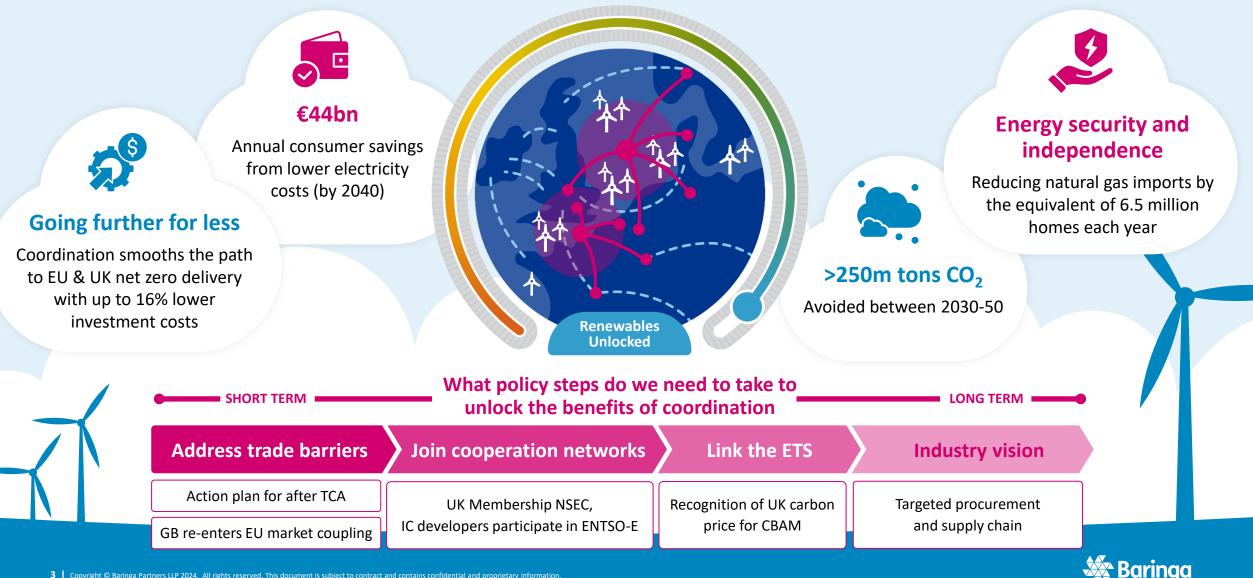
Jon Fuller Director UK, Breakthrough Energy Europe



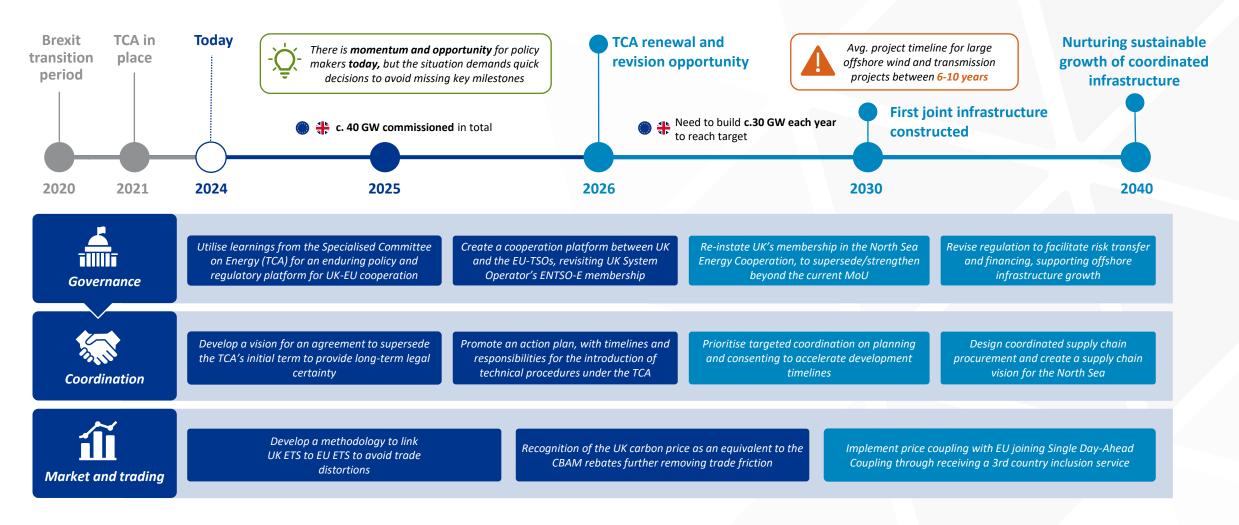


Beyond Borders | Executive summary | Overview

Coordination between the UK and the EU presents our best chance of delivering our national and collective offshore wind ambitions at pace

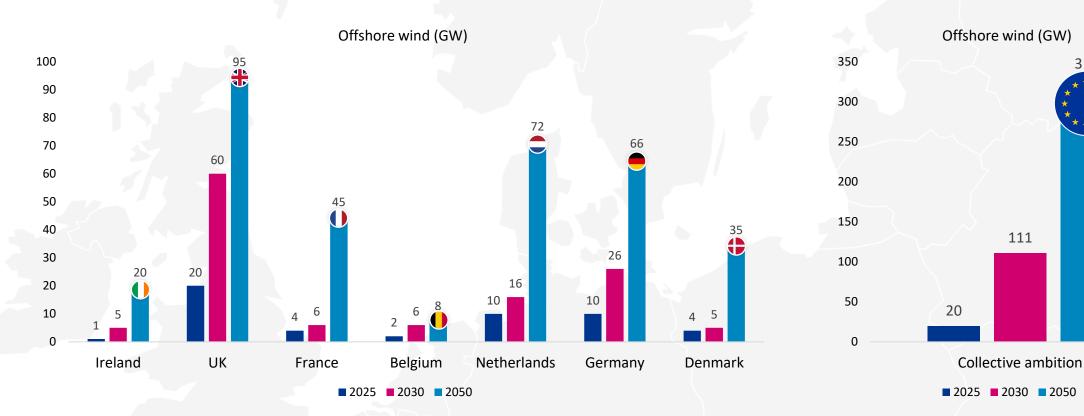


Action is needed now to address existing barriers between the EU-UK and create an environment that enables achieving net zero ambitions in the long-term





The EU and UK set ambitious targets for offshore wind to facilitate the energy transition and meet net zero targets – there is a significant investment challenge



Comparison of the expected capacity of offshore wind in 2025 to Government ambition in 2030 and 2050 reveals the significance of the investment gap we face in offshore wind infrastructure across Europe

Sources: UK Government, Ostend Declaration, Recharge news, ENTSO-E, European Commission

Aggregated across the EU, this presents a stark investment need over the next 5 years and then sustained out to 2050



317

Collective and coordinated action could help bridge the investment gap, however, this is limited by the current lack of coordination between the UK and EU

There is an opportunity to maximise value in the North Sea through coordination but barriers remain...

Barrier 1	Barrier 2	Barrier 3	Barrier 4
Current inefficient trading arrangements between the UK-EU. Significant issues implementing a post-Brexit efficient coupling arrangement.	Limited progress under the Trade Cooperation Agreement. Timelines are significantly overdue. TCA's initial term ceases in 2026.	Loss of coordination at a working level between the TSOs and DSOs as well as at a policy making / institutional level (such as between regulators). The MoUs are not translating to actionable commitments.	Divergent processes in planning, consenting and supply chain procurement. Low political appetite for large scale coordination without understanding the collective, and individual, benefits to the UK and the EU.
Implication 1	Implication 2	Implication 3	Implication 4
Increased system costs, higher costs for consumers and a reduction in social welfare. Estimates are €500-560m per annum in	Investment and regulatory uncertainty, particularly for infrastructure investments that have long asset lives, leading to	Renewable and climate targets at risk, missing national government and collective EU targets.	Reduced interoperability, limited investment in manufacturing capacity and higher likelihood of operational curtailment and

The barriers have significant implications for both the EU and the UK

1. Elecxit: the Cost of Bilaterally Uncoupling British-EU Electricity Trade, EPRG Working group. Available here: eprg-wp1916.pdf (cam.ac.uk) and National Grid, submission to UK parliament. Available here: EUE0079 - Evidence on Leaving the EU: implications for UK energy policy (parliament.uk)

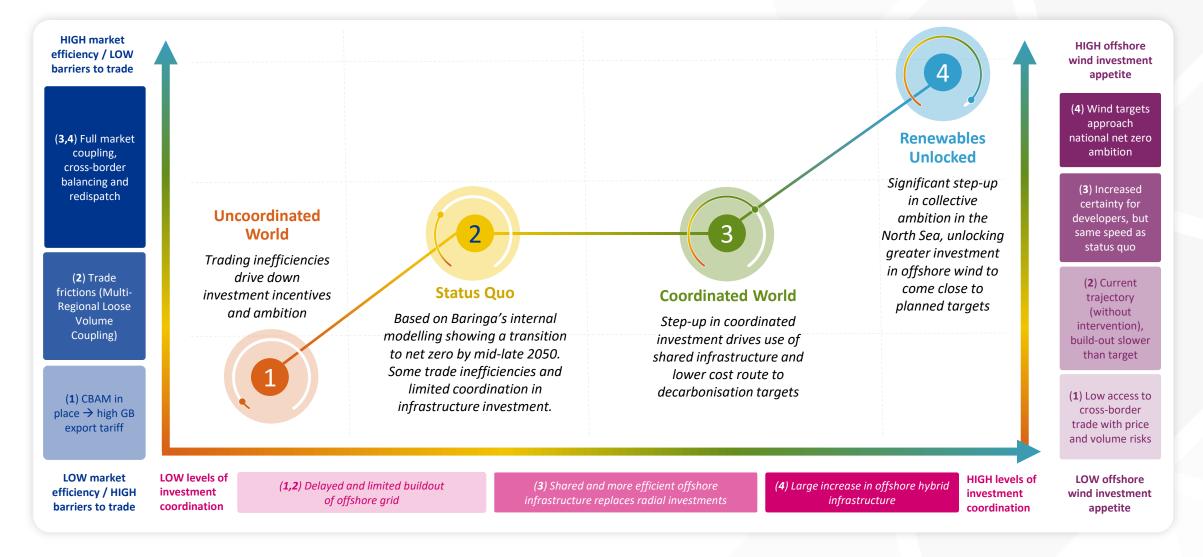
2. A broad coalition of energy associations and TSOs also supports this premise that limited price coupling and regulatory uncertainty is likely to make investment less attractive (Joint Letter

a higher cost of transition.²

slower investment.

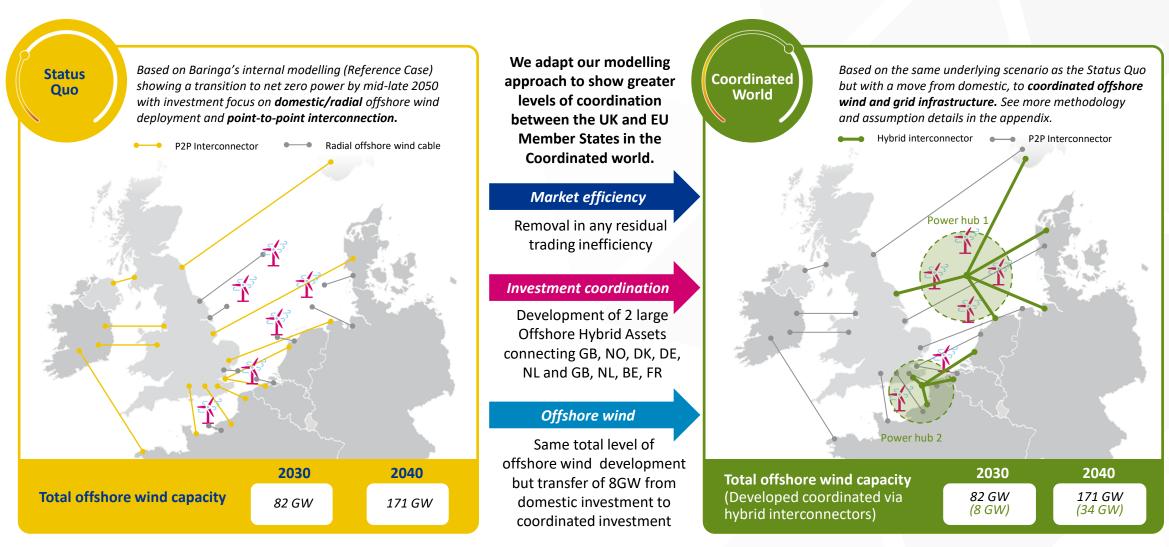
generation costs.¹

We have used these dimensions to develop four states of the world that form the basis of the economic assessment of opportunity in the North Sea



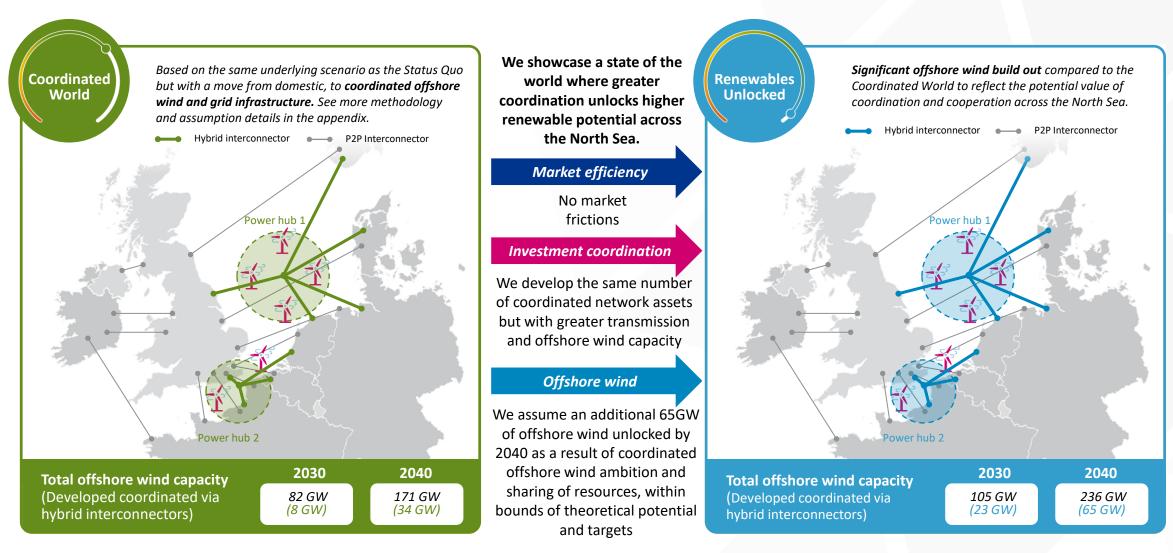


Exploring the impact and potential value of offshore grid and offshore wind coordination potential in the North Sea



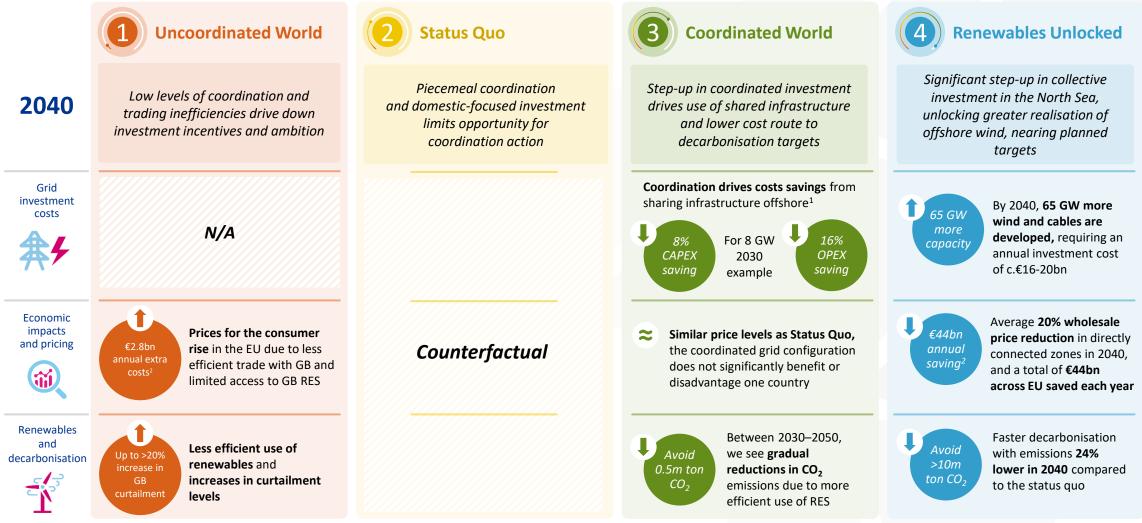


We stretch this approach to show the potential value that could be achieved if coordination unlocks investment far beyond current investment trajectories





We can see how increasing coordination and cooperation could drive cost savings, market economic benefits and decarbonisation benefits across the EU



¹ Based on example delivery of 8 GW of offshore wind through coordinated hybrid infrastructure by 2030

² Annual savings/costs, Reference year 2040 used. Savings calculated based on wholesale price reduction x Demand. Societal costs from CfDs, PPAs or other contracts not taken into account

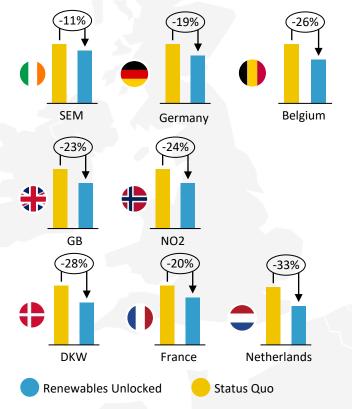


By 2040, cooperation could lead to 20% lower wholesale electricity prices on average across countries, reductions in infrastructure costs and in emissions costs

Consumer price savings

Annual GB connected zones impact (2040):

- €44bn of consumer cost savings
- 11.6 million tonnes CO₂ avoided



Infrastructure cost savings

2040 Infrastructure cost savings (real 2024) (Coordinated World vs. Status Quo)



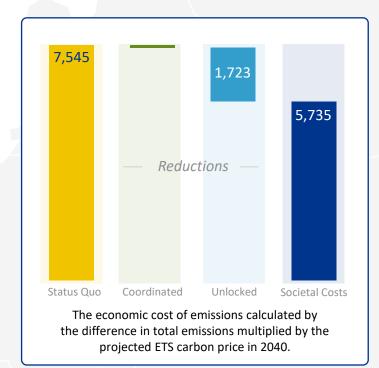
investment costs savings

?€9bn

operational costs savings

Carbon emissions reductions

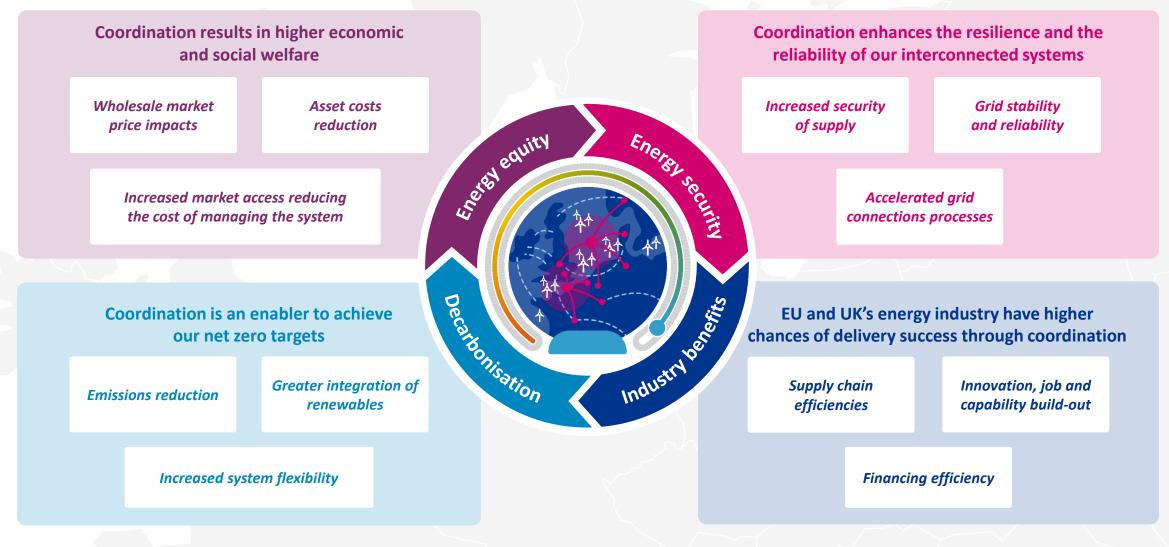
2040 Annual Societal Costs from emissions (m€, real 2024)





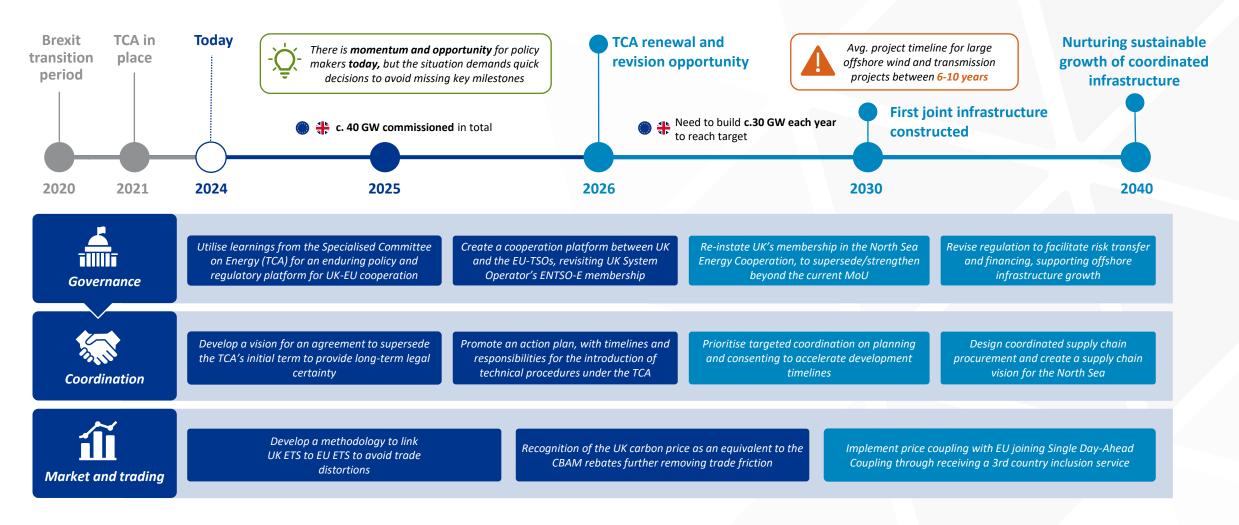
Beyond Borders | Benefits case | Wider economic welfare benefits from coordinated activities in the North Sea

The value of coordination and cooperation goes beyond the economic benefits and includes value from flexibility, security of supply and the supply chain





Action is needed now to address existing barriers between the EU-UK and create an environment that enables achieving net zero ambitions in the long-term



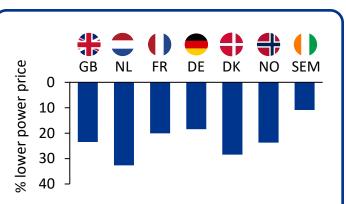


Details on benefits



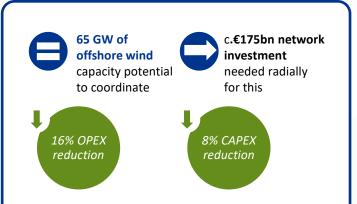
Coordination results in higher economic and social welfare

Price impact



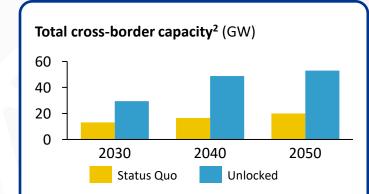
- Greater coordination could unlock renewables between European and UK offshore grids driving down wholesale electricity prices as connecting markets benefit from being part of a larger power market with greater diversity in generation and demand.
- The reduction in wholesale prices is driven by the accelerated buildout of offshore wind, increased interconnection and a more more efficient coupling between EU and UK.
- Lower power prices enables other sectors to decarbonize and electrify (i.e. heat and transport)

Infrastructure costs



- Coordinating infrastructure investment and operation results in cost savings, both capex and opex, driven by greater opportunities for the development of offshore hybrid assets, reduction in duplicated assets (such as converter stations) and operating more efficiently than radial offshore connections in the Status Quo scenario.
- Comparing the coordinated scenario to the status quo, we demonstrate a reduction in capex and opex, of 8% and 15% respectively, due to a more coordinated approach to hybrid assets, reducing cables, interconnectors and converters needed to achieve the same offshore wind and IC capacity.

System cost



- Cross border capacity between UK-EU would increase under the renewables unlocked scenario, reducing the likelihood of curtailment.
- Higher interconnection counts as reserve capacity which may improve procurement costs for TSOs.
- System operators will have more options for counter-trading or cross-border redispatch, all expected to bring operational costs down.
- Through efficient coupling, generators and traders have efficient access to other markets, saving overall trading costs.

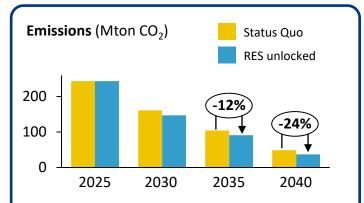
1. Article 15 of the TEN-E regulation sets out the intent to create guidance for cost and benefit sharing for the integrated offshore network development plans (which will include the north-sea given its potential as a priority corridor) 2. Cross-border capacity includes offshore grid hybrid lines used for offshore wind, this capacity is derated by 50%.



Beyond Borders | Benefits | Net zero targets

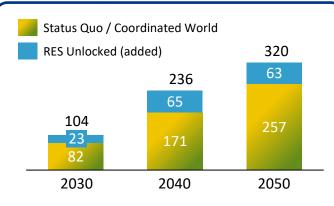
Coordination facilitates emissions reduction, higher RES and reduced renewable curtailment

Emissions reduction



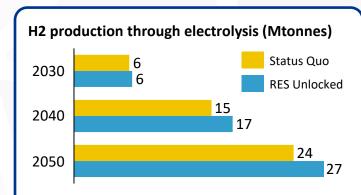
- More efficient dispatch of renewables across a larger, better connected power system, including the North Sea, will reduce emissions.
- The observed reduction in emissions is particularly pertinent for the 'Renewables unlocked scenario' which demonstrates the environmental benefits of coordination, where renewable sources reduce our reliance on gas and other fossil fuel sources.
- Increased RES integration achieves decarbonisation in the energy sector, which enables decarbonisation in other sectors (heat and transport).

RES integration



- Higher renewable capacity in the 'Renewables unlocked' scenario, aligns most closely to Governments' ambition and net zero targets.
- For the coordinated world and the RES unlocked scenario, we expect that greater reliance on multi-purpose interconnection, due to coordinated regulatory frameworks/oversight, would result in electricity flows that would better integrate RES and exploit different RES generation profiles in the North Sea.

Increased flexible demand and H2



- More hydrogen production due to consistently lower priced hours where they are enabled to switch on as flexible demand sources.
- Higher green H2 production allows for quicker decarbonisation of hard-to-abate industrial sectors, which use H2 as feedstock or can replace gas usage.
- The impact may be even greater if we consider the full potential of offshore electrolysis opportunities as a result of better coordination



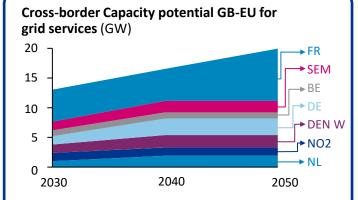
Coordination enhances the resilience and reliability of our interconnected systems

Security of supply

8th January 2021 case study:

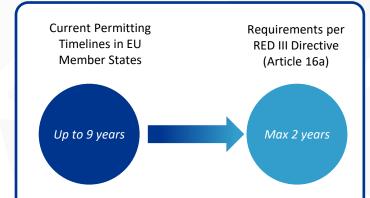
- System stability issues in Continental Europe, which meant that many generating units changed control mode. Some 1.7 GW of automatic interruptible load was disconnected in France and Italy.
- Nordic synchronous area provided 535 MW and UK contributed a further 60 MW to provide system stability.
- Greater levels of interconnection and coordination between GB and EU Member States improves security of supply, improving our ability to manage supply/demand shocks and the risk these pose to our energy systems.² High levels of coordination establishes a path for secure energy supply, which can withstand external shocks.
- The EU has ambitious goals. Higher levels of interconnection, through greater reliance on MPIs, and improved coordination allows EU member states and the UK to leverage flexibility and enhance security of supply through leveraging generation in the UK as well.

Grid stability and reliability



- Meshed, integrated power systems with high levels of interconnection and coordinated rules and operating procedures provide greater grid stability and reliability for system operators to manage changing grid requirements / outages.
- TSOs would be able to tap into various crossborder resources, such as PICASSO, MARI, FCR to balance the grid and maintain grid frequency.
- The UK would benefit from gaining access back into the European market, and the other countries would have a wider set of resources available to them in periods of scarcity or in disturbances' events.

Accelerated grid connection processes



- Better regulatory and oversight coordination between the UK and the EU will enable Member States to coordinate planning and consenting, which ultimately leads to fulfilling the RED III directive. RED III restricts the timeline for planning and consenting to two-years, particularly for UK-EU offshore projects in the North Sea.
- Better coordination between UK and the EU will facilitate the designation of specific zones in the North Sea which will facilitate faster permitting processes, biodiversity consideration(s) and better allocation between competing requirements (shipping, defence, energy).

1. National Grid, A connected Future, Why Electricity interconnection between Europe and the UK matters, August 2021.

2. According to the ACER monitoring report, price volatility due to the invasion of Ukraine would have been around seven times higher if national markets had been isolated in 2022, which demonstrates the benefits of coordination and integration between UK-EU. The future of European Competitiveness, Part B – In-depth analysis and recommendations, September 2024.



Beyond Borders | Benefits | Industry benefits

Europe's and UK's industry and energy sectors have higher chances of success and more cost-effective delivery of decarbonisation trajectories

Supply chain



- A strong vision, plan and delivery model for the European offshore grid provides the foundation for more efficient pan-EU supply chain strategies, supporting the speed and cost of delivery of Europe's net zero ambition
- A coordinated approach across the EU-UK for offshore assets in the North Sea would signal to manufacturers and supply chain providers to anticipate the requirements and invest, which builds up regional supply chain pipelines.
- A clear plan and coordinated approach could unlock even greater value if accompanied by asset standardisation to produce interoperable equipment at a large scale

Financial efficiency



- A clear and coordinated regulatory and risk transfer mechanism for offshore grid development would de-risk investment and support lower cost financing.
- The scale of investment required necessitates pooling investment from a whole range of sources (public and private) to achieve the UK's and the EU's ambitious goals.
- The establishment of a clear regulatory coordination framework and a vision for cooperation is a clear regulatory certainty signal to reduce regulatory risk and motivate private investors. This is particularly important for infrastructure assets with asset long lives.

Innovation, job and capability build-out



- Delivering the network required to reach our 2050 goals will require a step change in capabilities, innovation and capacity presenting a high opportunity for growth in a highly skilled sector, driving strong job creation and GVA opportunities for European Member States and the UK.
- Benefits in a coordinated approach, particularly for hybrid projects (instead of many small radial project) are likely to include a stronger bargaining position for Transmission Owners. Economies of scale and scope will assist TSOs in securing specialist engineering design and operation skills (such as in HVDC and offshore) for the scale of infrastructure required in the North Sea.

1. The future of European Competitiveness, Part B – In-depth analysis and recommendations, September 2024.













Appendix



Our four scenarios aim to capture the impact of potential major paradigm changes while keeping other assumptions the same

	Status Quo / Counterfactual	Uncoordinated World	Coordinated World	Renewables Unlocked
Overview	Our central view on decarbonisation, electricity demand, policy and prices. Piecemeal coordination and domestic- focused investment limits opportunity for coordination.	Trading inefficiencies drive down investment incentives and ambition	Step-up in coordinated investment drives use of shared infrastructure and lower cost route to decarbonisation targets	Significant step-up in collective ambition in the North Sea, unlocking greater investment in offshore wind to come close to planned targets
Net zero, economy	Net zero targets are achieved but with some delay. Most markets reach net zero for the full economy in the mid-late 2050s.	No change compared to counterfactual	No change compared to counterfactual	Net zero targets are largely achieved – most markets reach a net zero economy by 2050.
Offshore wind buildout	Offshore wind capacity expands slower than targets in most countries, with some delays. Targets set not fully reached and long-term deployment is dependent on economic incentive in model, leading to lower capacities.	No change compared to counterfactual.	 Equivalent total amount of capacity, but a proportion of new capacity is built through hybrid interconnection. 	Accelerated buildout of wind capacities compared to Status Quo. Capacities get close to reaching national targets.
Transmission & Interconnectors	Interconnection buildout is expanded but in a more conservative pace and with some delays compared to TYNDP. Lion Link is built with 3-year delay, Nautilus is not built.	No change compared to counterfactual.	Equivalent amount of effective interconnection capacity through both P2P IC and hybrid interconnectors.	Increase in Interconnection capacity on top of Status Quo case, as part of hybrid infrastructure built for the additional offshore wind
Trading arrangements and policy	Multi-Region Loose Volume Coupling is assumed leading to a small trade penalty (0.50 €/MWh) for EU exchanges with GB in the model.	CBAM is implemented, imposing a high import tariff based on fossil fuel generation emissions average (e.g. 40 €/MWh in 2030)	Return to market coupling and UK entering EU single energy market again. Implicit and efficient trading.	Return to market coupling and UK entering EU single energy market again. Implicit and efficient trading.

Note: 1) Arrows provide the qualitative outlook in comparison to the counterfactual/Status Quo; Conventional power demand is assumed to stay constant across scenarios, storage and H2 electrolysis capacities are also unchanged. It is assumed all extra offshore wind energy will be brought onshore via cables, offshore electrolysis was not considered in this study.

Two energy hubs were assumed in two offshore bidding zones shared by countries, either additional or transferred from domestic capacities dependent on scenario

Approach and methodology

- ENTSO-E estimates about 10% of new offshore wind capacity could potentially be connected via hybrid infrastructure by 2030. By 2040 and 2050 this increases up to 36% and 46% respectively. We use this ratio to create two energy islands in the North Sea and transfer new built wind capacity there to be under hybrid and coordinated infrastructure instead of radially connected. In the RES unlocked case, all this capacity is additional.
- > The energy hubs function as Offshore Bidding Zones (OBZ), operating as dedicated zones in our pan-EU market simulation model, exporting through the interconnector lines.

					•	trine cap		- /					
		203	30			204	40			2050			
	Uncoordinated	Status Quo	Coordinated World	RES Unlocked	Uncoordinated	Status Quo	Coordinated World	RES Unlocked		Uncoordinated	Status Quo	Coordinated World	
	5.1	5.1	4.1	5.1	6.5	6.5	3.5	6.5		7.6	7.6	3.6	
	22.8	22.8	21.8	22.8	52.6	52.6	48.1	52.6	_	78.8	78.8	65.8	
	3.8	3.8	3.3	3.8	23.3	23.3	21.3	23.3	_	44.7	44.7	35.7	
	35.3	35.3	32.5	35.3	51.4	51.4	39.4	51.4		64.2	64.2	48.2	
	10.2	10.2	8.2	10.2	26.8	26.8	18.8	26.8	_	40.3	40.3	24.3	
	3.2	3.2	2.2	3.2	6.8	6.8	2.3	6.8	_	7.8	7.8	2.8	
м	0.9	0.9	0.9	0.9	6.5	6.5	6.5	6.5		8.7	8.7	8.7	
BZ 1			6	15			25	45				50	
)BZ 2			2	8			9	20				18	

Offshore wind capacities (GW)

Source used: ENTSO-E ONDP Northern Seas, Baringa Reference case research



Beyond Borders | Appendix | Assumptions

Total effective interconnector capacity is assumed to stay the same across Uncoordinated, Status Quo and Coordinated, with added capacity for Unlocked

					 Interconne 	ctor capac	ity (GW)							
		20	30			20	40	2050			50	D		
	Uncoordinated	Status Quo	Coordinated world	RES Unlocked	Uncoordinated	Status Quo	Coordinated world	RES Unlocked	Uncoordinated	Status Quo	Coordinated world	RES Unlocked		
GB - FR	5400	5400	5400	5400	5400	5400	4400	5400	8800	8800	5400	5400		
GB - SEM	1450	1450	1450	1450	1450	1950	1950	1450	1950	1950	1950	1450		
GB - BE	1000	1000	1000	1000	1000	1000	0	1000	1000	1000	0	1000		
GB - DE	1400	1400	1400	1400	1400	2800	800	1400	2800	2800	0	1400		
GB - DEN W	1400	1400	1400	1400	1400	2100	100	1400	2100	2100	0	1400		
GB - NO2	1400	1400	1400	1400	1400	1400	900	1400	1400	1400	0	1400		
GB – NL	1000	1000	1000	1000	1000	1900	200	1000	1900	1900	0	1000		
OBZ 1 – NL	-	-	2000	4000	-		8000	14000	-	-	14000	14000		
OBZ 1 – DE	-	-	1000	2000	-	-	4000	7500	-	-	13000	13000		
OBZ 1 – DK	-	-	1000	2000	-	-	4000	7500	-	-	5000	5000		
OBZ 1 – GB	-	-	2000	4000	-	-	8000	14000	-	-	14000	14000		
OBZ 1 – NO2	-	-	0	1000	-	-	1000	2000	-	-	3000	2000		
OBZ 2 - GB	-	-	600	2000	-	-	3500	7000	-	-	4000	4000		
OBZ 2 - FR	-	-	500	1500	-	-	1750	8000	-	-	8000	8000		
OBZ 2 - BE	-	-	500	1500	<u> </u>	-	2750	2500	_	-	3000	4000		
OBZ 2 - NL	_	-	500	1500	-	_	1000	2000	-	_	2000	1000		



Beyond Borders | Appendix | Price results

Wholesale prices impact per scenario

Approach and methodology

- Wholesale prices are annual, time-weighted averages from hourly power market simulation outputs in PLEXOS. All bidding zones in Europe are modelled simultaneously in the Baringa pan-EU model.
- Consumer price impacts are calculated through the following formula: (CountryPrice_{Scenario} CountryPrice_{StatusQuo}) * CountryDemand_{Conventional} (where for conventional demand the flexible demand such as Heat Pumps, EVs and H2 Electrolysis is removed)

Wholesale price (€/MWh (real 2024))

		203	0	
	Uncoordinated	Status Quo	Coordinated world	RES Unlocked
BE	87.0	85.3	85.3	76.7
DE	84.1	82.9	83.0	77.0
FR	80.5	79.0	79.3	73.8
GB	78.1	85.4	86.2	75.8
NL	84.4	83.0	82.8	75.1
NO2	82.1	79.8	80.5	71.0
DK W	82.8	81.2	81.1	72.9
SEM	99.0	100.4	100.6	96.7
Connected Zones to GB	82.7	82.8	83.1	76.1
Wider EU	85.7	85.5	81.1	85.7

locked .4
4
• -
.4
.1
.9
.7
.2
.6
.3
.5
.3

2040

2050

Uncoordinated	Status Quo	Coordinated world	RES Unlocked
75.2	73.0	69.3	53.9
69.6	68.5	66.6	55.5
64.3	62.9	62.8	50.5
61.6	68.9	69.6	51.1
69.1	67.7	63.9	49.5
50.8	50.0	51.2	42.4
63.9	62.5	63.8	49.8
82.2	84.6	84.9	76.6
66.9	67.2	66.1	53.0
67.9	67.9	67.0	57.9



Building 8 GW in Coordinated World vs. Status Quo around 2030

Capex costs

Status Quo						
Component	Amount (GW or %)	Costs (€m, real 2024)				
Radial HVDC for wind farms						
Offshore converter stations	8.2	4,387				
Onshore converter stations and substations	8.2	2,313				
Offshore substations	8.2	2,879				
Offshore export cables	8.2 (270 km x 8)	3,745				
Onshore export cables	8.2 (20 km x 8)	241				
Devex	10%	1,356				
Contingency	7.5%	1,119				
System Costs	-	16,043				
Interconnector builds (HVDC)						
Onshore converter stations (Country A)	4	1,119				
Onshore converter stations (Country B)	4	1,119				
Offshore export cable	4 (350km x 4)	2,349				
Onshore export cable	4 (20km x 4)	117				
Devex	10%	471				
Contingency	7.5%	388				
System cost		5,564				
Total Costs		21,608				

Component	Amount (GW or %)	Costs (€m, real 2024)
MPI HVDC		
Offshore converter stations	8.2	4,387
Onshore converter stations and substations	8.2	2,313
Offshore substations	8.2	2,879
Offshore export cables	8.2 (510 km x 8)	7,074
Onshore export cables	8.2 (20 km x 8)	241
Devex	10%	1,356
Contingency	7.5%	1,119
System Costs	-	19,980
Interconnector builds (HVDC)		
N/A		
Total Costs		19,980

Note: Cost estimations are based on high-level average costs of infrastructure by 2030. Costs are extrapolated from a per unit basis cost assumption. With learning rates and economies of scale, costs could further develop and decrease in later years.



Building 8 GW in Coordinated World vs. Status Quo around 2030

		Ор
S	tatus Quo	
Component	Amount (GW or %)	Costs (€m, real 2024)
Radial HVDC for wind farms	8 (270km)	5,644
Interconnector builds (HVDC)	4 (350km)	7,113
Total Costs		12,756

C	oordinated World	
Component	Amount (GW or %)	Costs (€m, real 2024)
MPI HVDC	8 (510km)	10,660
Total Costs		10,660

Note: Cost estimations are based on high-level average costs of infrastructure by 2030. Costs are extrapolated from a per unit basis cost assumption. With learning rates and economies of scale, costs could further develop and decrease in later years.



Beyond Borders | Appendix | Emissions results

Emissions impact per scenario

Approach and methodology

- Emissions are CO₂-equivalent emissions from the power sector.
- Emissions savings are calculated from the difference in total emissions between the status quo case and the scenario in question.

					— Emissions in	npact (m	tons CO ₂)					
	2030					2040				2050			
	Uncoordinated	Status Quo	Coordinated World	RES Unlocked	Uncoordinated	Status Quo	Coordinated World	RES Unlocked	Uncoordinated	Status Quo	Coordinated World	RES Unlocke	
BE	10.8	10.5	10.3	9.1	4.0	3.7	3.4	2.2	1.5	1.5	1.4	1.0	
DE	88.7	86.9	86.8	81.5	25.8	24.8	24.4	19.8	4.8	4.6	3.7	1.4	
FR	10.2	9.8	9.8	9.3	5.8	5.7	5.7	4.9	-0.2	-0.3	-0.3	-0.3	
GB	23.5	27.6	28.2	23.4	1.2	2.4	2.8	0.4	-4.8	-4.7	-4.7	-5.5	
NL	20.2	19.5	19.4	17.4	9.3	8.9	8.6	7.0	7.4	7.4	7.3	7.0	
NO2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DK W	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.6	0.9	0.9	0.9	0.8	
SEM	5.6	5.5	5.6	5.3	2.3	2.4	2.4	2.1	0.5	0.5	0.5	0.4	
Connected Zones to GB	160.0	160.7	161.1	147.0	49.0	48.6	48.0	36.9	10.1	10.1	8.9	4.8	
Wider EU	314.2	308.9	309.0	294.3	113.0	109.9	109.0	92.7	40.7	40.5	38.7	33.0	



This document: (a) is proprietary to Baringa Partners LLP ("Baringa") and should not be re-used for commercial purposes without Baringa's consent; (b) shall not form part of any contract nor constitute acceptance or an offer capable of acceptance; (c) excludes all conditions and warranties whether express or implied by statute, law or otherwise; (d) places no responsibility or liability on Baringa or its group companies for any inaccuracy, incompleteness or error herein; and (e) the reliance upon its' content shall be at user's own risk and responsibility. If any of these terms is invalid or unenforceable, the continuation in full force and effect of the remainder will not be prejudiced. Copyright © Baringa Partners LLP 2024. All rights reserved.

baringa.com | enquiries@baringa.com | @baringa

Copyright © Baringa Partners LLP 2024. All rights reserved. This document is subject to contract and contains confidential and proprietary information.