REPRESENTATION ON THE PROPOSED MORGAN AND MORECAMBE OFFSHORE WIND FARMS TRANSMISSION ASSETS DCO

PLANNING INSPECTORATE REFERENCE NUMBER: EN020028

Submission on behalf of Newton with Clifton and Freckleton Parish Councils

Closing statement

1. This submission is the closing statement of Newton with Clifton and Freckleton Parish Councils. It is accompanied by a 'Statement of Benefits and Harms' comparing the application to the northern route from Rossall Beach to Stanah substation and a further video of large numbers of geese flying over the cable route at Cartmell Lane, Moss Side.

State of the project at the end of the examination

- 2. The parish councils wish to note that at the end of the examination the application is in a poor state with:
 - a. 183 new or updated documents submitted by the Applicants at Deadline 6 and published on the examination website three working days before the end of the examination – there is no time for interested parties to read and comment meaningfully on these documents so they should have the status of unexamined;
 - b. a huge and growing number of outstanding issues that have not been addressed by the Applicants during the examination;
 - c. serious gaps in the environmental assessment of the project leading to the conclusion that the application has not been sufficiently assessed to allow a decision to be made on it.
- 3. If more documents are submitted by the Applicants at Deadline 7 then these will not have been seen, never mind responded to, by third parties.

Late information about connection security

- 4. It has come to the attention of the parish councils via reports of discussions between Fylde Borough Council and Ofgem that the Applicants' Penwortham connection is given on the basis that the connection will take place by 2030, which is clearly not going to happen. This runs particularly counter to the Applicants continuing to reserve for themselves the ability to *start* either project within seven years, i.e. by 2033 if the decision is made positively and on time next year. If either project starts just before the seven-year deadline and takes the three years shown in the application documents then it will not be complete until 2036 and that is without any construction delays.
- 5. Claims that it will take several years to make Stanah suitable for the projects to connect to the transmission network, which was the main reason for eliminating it from consideration, should be considered in the context that the Applicants are seeking powers for the projects not to be ready until 2036. Eleven years would give Stanah plenty of time to be upgraded. The other reasons given for not taking Stanah further do not stack up either it is not surrounded on all sides by residential properties, rather, it is adjacent to properties on two sides at most (see the Ordnance Survey extract appended to the Statement of Benefits and Harms). The environmental impacts of using Stanah would clearly not be greater than going to Penwortham, even if the substation works just at Stanah would have a greater impact than those just at Penwortham, because of the difference between a 2km cable route versus a 30km one, and substations in an industrial area near Stanah that wants them versus a substations in a rural residential area that would be heavily impacted. More details are given in the benefits and harms statement.

6. The coordination between the projects that the Holistic Network Design Review was intended to achieve has had none of the intended beneficial effects. The only coordination is that there is a single application, the cable routes are the same and the substations are close to each other, doubly impacting those affected. While temporal separation between the projects is maintained then the environmental effects will be experienced for more than double the time (as some will continue during the gap between the projects). It has been apparent during the examination that the shared application has caused problems for the joint Applicants as well, exemplified by the failure to secure a Non-Disclosure Agreement with BAe Systems to allow the issue of bird strike to be dealt with, which is likely to be due to the number of parties having to sign it off on the Applicants' side. The Schedule of Changes to the DCO (REP6-184) since the application was made, which now runs to 168 pages, has generally moved towards making the two projects as separate as possible in terms of their legal powers. This project clearly fails at least three of the four objectives of the Holistic Network Design Review (to minimise cost to consumers, impacts on the environment, impacts on communities and to improve deliverability and operability).

Legal obligation to seek alternatives

- 7. Natural England, in their Deadline 6 response to the ExA's Rule 17 request (REP6-190), cannot rule out an Adverse Effect on Integrity (AEoI) of the Ribble and Alt Estuary SPA unless further fallback mitigation is proposed by the Applicants (in answer to the first question). They are also concerned that the bird strike management measures may have impacts on the SPA (in answer to the second question). While that situation obtains, the Applicants must demonstrate that there are no alternative solutions for the project, and only then that there are imperative reasons of overriding public interest for continuing with it, by virtue of regulation 64(1) of the Conservation of Habitats and Species Regulations 2017.
- 8. They will be unable to do that, because of course there is an alternative solution, namely to go via Rossall and Stanah, that avoids any internationally protected sites. That is legal reason number 1 why the project should not, and arguably cannot, go ahead.

Biodiversity Net Gain and bird strike

- 9. The Applicants have finally provided figures that show that the project will result in a biodiversity loss in their Biodiversity 'Benefit' Supporting Statement (REP5-145) see Table 3 on pages 15-16. While biodiversity net gain is not yet a legal obligation under the Planning Act 2008 regime, public authorities have a duty to consider what actions they can take to further 'the general biodiversity objective' to conserve and enhance biodiversity, by virtue of section 40 of the Natural Environment and Rural Communities Act 2006, as amended by the Environment Act 2021. Approving a project that does not even conserve, never mind enhance, biodiversity habitats would appear to be inconsistent with this duty. That is legal reason number 2 why the project should not go ahead.
- 10. Applicants are further reminded of their duties by paragraph 2.2.10 of EN-5, where in formulating proposals for new electricity networks infrastructure, to "have regard to the desirability of preserving natural beauty, of conserving flora, fauna and geological or physiographical features of special interest and of protecting sites, buildings and objects of architectural, historic or archaeological interest; and ...do what [they] reasonably can to mitigate any effect which the proposals would have on the natural beauty of the countryside or on any such flora, fauna, features, sites, buildings or objects." This does not appear to have been fulfilled given the obviously material alternative.
- 11. In Natural England's answer to the fourth question in REP6-190, they maintain the position that drilling less than 15m below the sand dunes at Lytham Beach (where the Applicants will only commit to 10m) would have impacts on Ground Water Dependant Terrestrial Ecosystems. As the Applicants themselves characterise the sand dunes as irreplaceable habitat (see e.g. REP5-151) then this would appear to be a further breach of the biodiversity duty. That this issue has only come to light at the end of the examination is particularly concerning.

- 12. The issue of increased threat of bird strike to Blackpool Airport and Warton Aerodrome from environmental improvements in the area attracting greater numbers of birds remains unresolved, although agreement has been reached with Blackpool Airport's owners. It is clear that this was not spotted as an issue early enough, meaning that for example in their black, red, amber, green (BRAG) assessment of route alternatives the Applicants did not consider bird strike risk when choosing the route (APP-033).
- 13. The parish councils are concerned that this issue remains outstanding when it is so important, and are also concerned that in reaching agreement with Blackpool Airport's owners and in order to reach agreement with BAe Systems and the MoD, owners of Warton Aerodrome, the environmental quality of the habitats will be degraded to discourage birds, and thus will become less adequate on the mitigation and BNG habitat front. The updated Outline Wildlife Hazard Management Plan submitted at Deadline 6 (REP6-144) still lists 'potential measures' to deter birds and says at paragraph 1.2.1.4 of Appendix A that a detailed 'Wildlife Habitat Attractants Risk Assessment' will be carried out post-consent that is too late, it should form part of the EIA.

Adequacy of Environmental Impact Assessment

- 14. Regulation 4(2) of the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017, as amended, prohibits a DCO from being granted unless an EIA has been carried out for the application. Regulation 5(2) states that an EIA must identify and describe the direct and indirect significant effects of the project on various factors.
- 15. It follows that if the EIA has not identified and described such effects (or has adopted a reasonable worst-case approach for any effects that have not been fully assessed) then the application cannot be granted. BAe Systems' Deadline 6 submission (REP6-206) states on page 2 that they are not currently in a position to confirm that the proposed development complies with policy on bird strike in EN-1 until the residual impacts on aviation have been provided and as mentioned above a risk assessment will only be undertaken post consent. This is one example where it is clear that the effects of the project, in this case in the crucial area of major accidents and disasters, mentioned specifically in regulation 5(4), have not been assessed at this point. The Prime Minister's announcement on 27 October 2025 that Warton will be used for the production of 20 Typhoon fighter jets destined for Türkiye, part of securing 20,000 jobs in a deal worth up to £8bn, should not be threatened by unnecessary bird strike risks.
- 16. Other areas include impacts on land functionally linked to the Ribble and Alt SPA, the late identification of irreplaceable habitat at the shoreline, visual impacts, where the Applicants will not provide renderings of the substations from key receptors such as residential properties, only committing to provide these at a later stage, which would mean they could not form part of the EIA. Lancashire County Council, in their Deadline 6 submission (REP6-188) say (at paragraph 3.3) that the Landscape Proposals/Strategy and the Outline Design Principles documents do not address residual effects sufficiently which is a further gap in assessment.
- 17. That is legal reason number 3 why the project should not go ahead.

Amendments to the DCO

18. The parish councils note that the Applicants have amended the seven-year deadline for commencing each project to tie its start to the coming into force of each windfarm DCO rather than this DCO. Noting that the Morgan windfarm DCO came into force on 22 September 2025 and so, barring quashing of the DCO, that project's transmission assets must commence by 22 September 2032, the Morecambe windfarm DCO has been delayed and currently has a deadline of 20 November 2025; the in force date usually being three weeks later i.e. 11 December 2025 in this case. That difference in dates increases the maximum potential separation of the projects to four years and nearly three months. While the date by which the projects must start has been brought forward, which is somewhat welcome although does not reduce their environmental impacts, the potential separation has increased, which is

unwelcome, as it potentially increases the impacts that exist during any gap between the projects and the overall time for which impacts will occur overall.

- 19. The parish councils welcome the addition of external appearance to the local planning authority approval of the substations but are disappointed that they are not to be consultees for such approval. In addition there are other areas, such as Community Benefit and highways, where the parish councils would also expect to be consulted directly.
- 20. The biodiversity net gain requirement (26) is better than before but with the following qualifications: 'biodiversity net gain' is not defined and the 'Outline Biodiversity Management Plan' still only commits to providing BNG for the four permanent infrastructure works and not the rest of the onshore order limits including the other 50 works, when some habitat there will not be restored for at least 30 and if maximum project separation occurs, over 40 years from harm. Furthermore, option (b) remains as complained about at ISH4, i.e. it is a vague substitute for registered offshore units that form part of the official biodiversity gain hierarchy and so the requirement potentially fails to qualify as a valid requirement for that reason.

EN020028 - Morgan & Morecambe Onshore Transmission Assets

An Assessment of Benefits & Harms Including a Comparison with the "Obviously Material Alternative Route"

Prepared by Newton with Clifton & Freckleton Parish Councils

1. Summary

This note has been prepared by Newton with Clifton and Freckleton Parish Councils as part of their closing submission for consideration by the Examining Authority and other interested parties as a summary of the perceptions gained during the Examination process of the overall benefits and adverse impacts that result from this proposal to bring offshore wind power from the Irish Sea to the National Grid at Penwortham.

The principle, bringing energy ashore onto the Fylde and routing via Penwortham, is not contested. The issue lies with the proposed routing and the failure to make the most use of existing, capable infrastructure, thereby minimising environmental impacts and costs to the Consumer.

It examines the current formal Application, EN020028, as presented and offers our comments on it in the light of the six-month examination. For comparison, the note also examines the same issues but taking account of the 'Obviously Material Alternative' that was laid out initially in the Initial Open Hearing (REP1-183), and which has been discussed several times subsequently.

This alternative provides a rare opportunity to meet all the requirements set by the Secretary of State relating to green energy sources and development of employment opportunities and would be especially welcome in a very deprived area of the country.

The results are summarised in this note, which also contains the detail by which the conclusions are supported in Annex 1. A plan showing the cable route, Hillhouse TEZ and Walney and Stanah substations is shown at Annex 2.

The major conclusion is that there is a significantly cheaper alternative to the current proposed development, with the potential to save an estimated £904m for these two, separate development projects which have an estimated total cost of £1.4bn (REP5-014 & Rep5-016). This alternative has the added benefits that all the key areas of issue and contention with the existing application are removed at a single stroke, i.e.

- o The aviation difficulties associated with bird strike hazards and their avoidance.
- The need for occupation of green belt land across the Fylde and the loss of best and most versatile farming land.
- The large biodiversity loss incurred when applying the BNG metric to the full Order Limits.
- Impacts on internationally protected zones, RAMSAR areas, Biological Heritage Sites, both offshore and on-shore.
- The need for Compulsory Acquisition of land to expand the Penwortham substation to accommodate these two wind farms, reference REP1-089, which was not included in the cost savings quoted.

It was considered that the best way to illustrate the differences in approach between that of the Applicants and the Obviously Material Alternative option would be to set out a comparison of perceived benefits and adverse impacts for both options.

The report that follows presents the findings of the assessment.

2. Introduction

It must be stated from the outset that the Fylde Town and Parish Councils, represented by the Transmission Assets Steering Committee (TASC), for whom the title of "Newton with Clifton & Freckleton Parish Councils" has provided the face at the enquiry, fully support the principle of wind generated energy from the Irish Sea being brought ashore in the Fylde for use by the National Grid or local industries.

What we do object to is the presumption by the then National Grid (now NESO/NGET) that only Penwortham can be used as a connection point, thereby ignoring the benefit to be obtained by use of a closer to shore connection site and use of the existing grid infrastructure, even if, as we fully accept, it requires new substations at Stanah/Hillhouse, since ample space is available there and the site owners would welcome their presence.

The alternative fits with guidance of NPS EN-1 Para 2.3.4, which emphasises infrastructure for conversion, transport and storage of energy generation, the latest proposed local development plans for the North Fylde (REP5-185 Appendix – Blackpool & North Fylde Gateway for Clean Energy¹) and for Lancashire County (Lancashire Growth Plan²) which would see new industries associated with the proposed green hydrogen production and storage.

It would also assist in the retention of significant local industries already at Hillhouse that are attempting to make their activities more environmentally friendly, via converting fossil fuel to electricity use. If the energy is not available, which is currently not the case, then these developments are at threat.

The alternative fits with a National Policy that has been recommended to Government by the University of Manchester Dalton Nuclear Laboratory^{3,} a copy of which will be submitted under a separate reference.

This has the potential to save approximately £904m to the Consumer just for these two projects, more if the engineering work required and additional compulsory purchase costs associated with the necessary expansion of the Penwortham site were considered in detail. It would still see the power being transmitted via Penwortham, but would reduce the effort in developing that site, which brings its own issues of space constraints.

3. System Description

The transmission lines that connect from the North, which are supplemented at present by the power from the two Heysham nuclear plants, form a 400kV ring circuit between Heysham/Middleton and Penwortham. The eastern branch routes alongside the M6 motorway, whilst the western branch routes past Lancaster to Hambleton close to the River Wyre, and thence south to Penwortham.

At Hambleton there is a 400kV Tee junction to the existing distribution substation at Stanah, adjacent to Hillhouse. This Tee has very recently been refurbished and provided with an upgrade to the same standard as

¹ Brochure - Blackpool North & Fleetwood, Gateway for Clean Energy.

² Lancashire Combined County Authority – Lancashire Growth Plan

³ The University of Manchester Dalton Nuclear Institute – The Road to Net Zero: Renewables and Nuclear Working Together

the main grid and, hence, has the same power carrying capacity, although its output is limited by the current Stanah substation, which we agree needs to be upgraded or replaced.

The guidance of the Security & Quality of Supply Standard (SQSS) confirms that to connect any new power source to the National Grid requires the "Power Quality" of that source to be closely controlled to ensure stability of the Grid system. This control is established by proper design of the substation at which the connection is to be made, with duplex switching and power quality control systems in place to enable safe disconnection in the event of any issue developing before the Grid itself is damaged.

The connection from a power source, such as a wind farm, can be made anywhere on the Grid ring, depending on available space for a substation, as near to the coast as possible, that meets SQSS standards and offers the lowest cost to consumers. The substation may belong to the supplier, aligning with the Electricity Act 1998 requirements.

If that principle is followed, then any Irish Sea wind farms, wishing to connect to the Grid could request the option of siting at Hillhouse and connecting via the 400kV Tee to Hambleton, or to use Penwortham itself. The key decider should be overall system cost, which eventually will be borne by the Consumer.

Using an existing National Grid line should be considered as priority, as this would always be cheaper than having to trench or tunnel an underground line for some 30km under the Fylde to reach Penwortham.

Use of Hillhouse, where more than adequate space is available, which has favourable Technology Enterprise Zone (TEZ) development status, has a defined priority as use for power generation or related industries and has an owner that would encourage its use, would appear to be preferable to use of Penwortham. The owner of the Hillhouse site made a relevant representation (RR-1656) to the effect that the development should use Stanah rather than Penwortham.

4. Current Proposed System Issues

Whilst Penwortham has already been selected for a much-needed upgrade, due to its position as a major node on the National Grid, from REP1-089 we now recognise that space is limited and there are other projects competing for capacity and space at that location. Expansion beyond what it now has requires Compulsory Acquisition of adjacent lands to enable all the additional development that is stated to be required to cope with the demands faced from the Irish Sea Wind Farms, which then numbered 2 applications at the DCO stage. It will take time to obtain compulsory acquisition powers and subsequently upgrade the substation suitable for accommodating these transmission assets.

Subsequently, a further wind farm, Mooir Vannin, which is at an early stage where initial options are being formulated, is being directed again to Penwortham, further complicating the expansion plans and access issues. One of the proposed landfall sites for this project, and the preferred option from Orsted, is Rossall Beach with a transmission line those routes via Hillhouse but is then directed to Penwortham rather than the nearby Grid.

This further complicates the Penwortham site issues if a separate transmission line is insisted upon for this project, especially as, following the withdrawal of Heysham 1 and 2 power plants from service in 2028 – 2030, there will be further spare Grid capacity on the existing circuit.

5. The Assessment

The assessment of Benefits and Harms follows a similar layout to that adopted for the Statement of Common Ground, amended slightly in the light of discussions that took place at Issue Specific Hearing 4 on the 7th and

8th October 2025 at the Village, Blackpool. It presents a summary of the perspective from the viewpoint of the Parish and Town Councils represented by the TASC group by Newton with Clifton and Freckleton Parish Councils.

The assessment includes our view of the "Obviously Material Alternative" based the detail local knowledge, assisted by discussions with local Heavy Electrical Engineering company representatives, based on the existing Hillhouse site, understanding of the Engineering Requirements of the task (as defined by the "Security and Quality of Supply Standard, SQSS") and use of a Systems Engineering Integration approach.

The detail results are presented in full in Annex 1 and a summary follows below. To assist the Examining Authority, the classification of weighting, 'very great', 'great', 'moderate' or 'little' applied to a topic, whether positive or negative, has been used and comes from an example Examination Report for another project that has completed its process⁴. Whilst subjective it does help illustrate the comparison with effect.

Summary Table - Benefits & Harms Comparison				
	Morgan & Morecambe OWFT Proposed Alternative Route			
Issue	Finding	Weighting	Finding	Weighting
Project Overview - Principle of Development and Climate Change	Positive	Great	Positive	Very Great
Site Selection and consideration of alternatives	Negative	Very Great	Positive	Very Great
Consultation	Negative	Great	Not tested	Not tested
Onshore Ecology and Nature Conservation	Negative	Great	Positive	Great
Historic Environment	Negative	Great	Positive	Great
Landscape and Visual Resources	Negative	Very Great	Positive	Very Great
Socio Economic & Land Use	Negative	Very Great	Positive	Very Great
Hydrology and Flood Risk	Negative	Great	Positive	Great
Traffic and Transport	Negative	Very Great	Positive	Great

⁴ Tillbridge Solar Project – Examining Authority's Report of Findings and Conclusions and Recommendations, 14th July, 2025

Noise and Vibration	Negative	Very Great	Positive	Very Great
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6. Conclusions

The major conclusion is that there is a significantly cheaper alternative to the current proposed development, which has a cost forecast of approximately £1.4bn for the two projects with the potential to save an estimated £904m for these two, separate development projects.

The alternative has the added benefits that all the key areas of issue and contention with the existing application are removed at a single stroke, i.e.

- o The aviation difficulties associated with bird strike hazards and their avoidance.
- The need for occupation of green belt land across the Fylde and the loss of best and most versatile farming land.
- o The large biodiversity loss incurred when applying the BNG metric to the full Order Limits.
- o Impacts on internationally protected zones, RAMSAR areas, Biological Heritage Sites, both off-shore and on-shore.
- The need for Compulsory Acquisition of land to expand the Penwortham substation to accommodate these two wind farms, reference REP1-089, which was not included in the cost savings quoted.

The alternative offers a route to growth of the local economy of the area with the regeneration of the Hillhouse site, helping to eliminate a contaminated brownfield site and ensuring that the existing industries can be retained and expanded, thereby securing the future of the local economy of this part of Lancashire.

Annex 1 – Detail Summary of Benefits & Harms Comparison of the MMOWFTA and the "Obviously Material Alternative"

	MMOWFTA		Obviously Material Alternative	
Item Title & Brief Description	Benefit	Harm	Benefit	Harm
Project Overview	Provision of Renewable Sourced Power the National Grid (REP5-018 for latest version of the Statement of Reason) A key output of the HNDR process was the recommendation that the generation assets should work collaboratively in connecting the two offshore wind farms to the National Grid Electricity Transmission (NGET) network at Penwortham in Lancashire. (Reference: Pathway to 2030 Holistic Network Design - July 2022)	We have observed limited "collaboration" on the Development Consent Order only. During examination it has become clear that there are two separate projects, with two separate build plans and connection promises to the grid. The collaboration has not benefited the Applicants or third parties in any way. (REP3-100, REP5-010, REP5a- 018)	Provision of Renewable Sourced Power to the National Grid at a site where this can be integrated with development proposals for green hydrogen manufacture and storage Alternative Route is predicated upon the use of the Hillhouse Technical Enterprise Zone, which was created to support Energy Industry related projects together with utilisation of the existing National Grid infrastructure to the maximum possible. The site was excluded from the HNDR based on an erroneous interpretation of lack of access and availability, both of which are disproved. (REP4-166)	Requires 2km of trenching to reach the Hillhouse Site from the Irish Sea Coast of the Fylde at Rossall
	Powers of compulsory acquisition can only be granted where the Secretary of State is satisfied that there is a compelling case in the public interest and the interests in land for which the powers are granted are either acquired for the development or are required to	Compulsory acquisition required to extend the Penwortham site to cope with the development proposals for National Grid's own purposes combined with the addition of East Irish Sea Wind Farms, currently Morgan & Morecambe, with Mooir Vannin later.	No compulsory purchase required, either at Hillhouse or Penwortham, as all substations can be accommodated on the available areas of Hillhouse TEZ. Such development would be welcomed (RR-1656)	None at Hillhouse or Penwortham. Compulsory acquisition required for 2km of cables from shore to boundary of Hillhouse Technology Enterprise Zone.

	facilitate or are incidental to the	Compulsory acquisition required for		
	development.	30km of onshore export cables and		
	development.	grid connection cables (see REP6-		
		038, table 3.1)		
	Reduced costs to the End Consumer		Coving of COOAm to the and	None
		Costs of 30km of Underground	Saving of £904m to the end	None
	as required by the Electricity Act,	Cabling with Capacity to Carry	Customer - after allowance for the	
	1998	Power plus the additional	work to place new substation s at	
		substations. Increase of costs to the	Hillhouse. (REP2-064)	
		End Consumer, the Consumers, by		
		£904m, based upon available		
		published evidence (REP2-064)		
		compared with current cost project		
		estimates (REP5-014 and REP5-016)		
		which indicate a total cost for both		
		projects of £1.4bn.		
	The key components of the	We now have two separate,	Onshore arrival at Rossall avoids	None
	Transmission Assets for both the	potentially sequential projects,	offshore maritime protected areas.	
	Morgan Offshore Wind Project and	separated by an undefined period of	Uses limited Green belt with an	
	the Morecambe Offshore Wind	years with a maximum of four, as	approved DCO for a road access to	
	Project include the Offshore	defined by the current draft	Hillhouse north entrance or could	
	Transmission Cables, the Landfall	Development Consent Order (or	skirt the Green belt boundary to the	
	Sites and Junctions and the Onshore	longer if the proposed linkage to the	south. Space available for SQSS	
	Elements of the Export Cables. A key	offshore windfarm DCO dates is	compliant substations and all power	
	feature was the shared consent	adopted). This increases the project	control and safety systems.	
	process, the shared corridors for	overall duration; maximises the	Transmission would be via the	
	connections and shared substation	nuisance created and prevents an	existing 400kV National Grid circuit	
	in the original plan (AS-024)	orderly recovery to normal use as the	between Heysham and Penwortham	
		land remains under development or	and the 400kV Tee that currently	
		recovery actions for very extended	supplies Stanah, which is adjacent	
		periods (REP6-158)	to Hillhouse. Careful engineering	
			design would ensure no substations	
			are needed at Penwortham, saving a	
			CA process there.	

Site Selection	Sites determined by the HNDR	Requires the crossing of Marine	By coming ashore at Rossall, all	Requires an HDD installation in a
and	process, which identified the area to	Protected areas offshore, and the	marine protected environments are	straight line from Rossall Beach to
consideration	the South of Blackpool Airport for	Ribble & Alt RAMSAR site in two	avoided. Would allow all substations	the Hillhouse TEZ or with two bends
of alternatives	coming on shore and Penwortham for the National Grid Connection (Reference: Pathway to 2030 Holistic Network Design - July 2022)	places. Disturbance of protected onshore sites at St.Annes-on-Sea, the coastal dune system, Lytham Moss, Freckleton, Kirkham & Clifton greenbelts, Clifton and Lea Marshes. Sites two large substations in the greenbelt. Compulsory Acquisition of additional space at Penwortham, which is quite tightly constrained by existing developments.	to be located at Hillhouse, where there is space available and a willing site owner. Utilises the existing National Grid Transmission Lines that currently run from Stanah substation (a distribution unit, currently) to Penwortham via a modern 400kV SQSS compliant circuit. Avoids all onshore sites of concern and avoids the Compulsory Acquisition of additional land at Penwortham that would otherwise be necessary to accommodate all the required new infrastructure.	to avoid the Green belt.
Consultation	Application has followed the defined	Process has been very poorly	Not tested	Not tested
Consultation	''	applied and local inputs have either	Not tested	Noticated
	process	been ignored or discounted either		
		because they were not understood		
		or not listened to. See recent		
		representations at ISH4. Despite		
		early verbal meetings suggesting the		
		alternative, prior to DCO, this has		
		never been considered properly.		
		These meetings were unclear as to		
		the need for written consultation		
		input. All such representations were		
		greeted with hostility, on this aspect.		
		(REP6-158)		

Onshore		Permanent damage to farmland	Limited BNG requirements to be met	None
Ecology and		currently used for grazing and milk	due to use of existing infrastructure.	None
Nature		production. There have been long	The bird strike issues are eliminated	
Conservation		discussions around the impact the	entirely, as are the needs for taking	
Conservation		development will have on drainage,	large areas of greenbelt.	
		and the Applicant has not taken	Redevelopment of Hillhouse TEZ	
		· ·	•	
		account of the Vadose regime in	would provide a major benefit by	
		which the proposed cable routes will	helping to overcome the existing	
		be sited. Displacement of migrant	contamination issues at the site and	
		bird populations, protected species	locking this material away	
		from the normal winter-feeding	permanently beneath the	
		grounds to areas that have the	development. The site already has	
		potential to increase the risk to the	special planning powers, as a TEZ,	
		local aviation activities on the Fylde.	and has the environmental	
		The proposal raises concerns	assessments of the status available.	
		regarding impacts on Bird strike risks		
		especially with the Warton		
		Aerodrome, where normal operation		
		involves low-level, high-energy		
		manoeuvring of military fast jets		
		under development and test. (REP6-		
		<u>158</u>)		
Historic	None	Puts a historic Grade 1 Listed	Cleans a historically contaminated	None
Environment		building at risk, at Savick Brook.	brownfield site locking the	
			contamination such that it cannot	
			be further nuisance	
Landscape and	None	The "temporary" construction areas	Avoids all the negative impacts of	None
Visual		will leave a significant scar for	the current proposal by use of	
Resources		typically between 7 to 30/40 years,	existing infrastructure.	
		due to the chosen method of build		
		and the time taken for habitats to be		
		restored. The development will leave		
		2 substations of currently unknown		
		design with no visualisations		
		provided, at two widely visible areas		
		of the Fylde, currently the greenbelt		
		between Freckleton, Kirkham and		
		Newton & Clifton. The long-term		

		impact of trenching is not fully		
		understood, the underground cables		
		will run at around 90°C, which is		
		expected to produce a permanent		
		effect on soil structure and the		
		resultant ecology.		
Socio	The Applicants have presented a	The plans cover temporary	Hillhouse houses a number of high-	We understand that the lack of
Economic &	Development Plan to support	employments associated with the	tech companies engaged in	available renewably sourced power
Land Use	business and education facilities	construction phases of the project.	advanced manufacturing techniques	on the site is threatening some 2500
	with additional training and	With most of this being supplied by	for parts for the Health Industry and	existing jobs. Failure to adopt this
	apprenticeships, together with an	contract organisations, it is unclear	Aviation Manufacturers, both of	option puts the whole future of the
	estimate of the levels of employment	how much will be local to the area or	whom supply parts across the world.	area of North Lancashire at
	expected to result.	what duration this would generate.	These businesses are keen to	economic risk and subsequent
		There is no guarantee of stable	expand. The site is also designated	harms of employment and skills
		employment into the future.	as a site for the manufacture of	loss.
			green hydrogen, for which the local	
			deposits of Halite are a key	
			resource, as would be the ability to	
			use locally supplied power from	
			wind farms. The pairing of wind farm	
			energy and a green hydrogen plant	
			offers the possibility of balancing the	
			variability of wind with a long-term	
			power source from the hydrogen. A	
			further advantage is that this would	
			negate the need for Curtailment	
			Payments if the National Grid cannot	
			cope with any excess power.	

Hydrology and	None	The development is planned to cut	The flood risk on the River Wyre is	None
Flood Risk		through a number of zones	well understood and Hillhouse is	
		designated at Risk Categories 2 and	protected accordingly.	
		3 at present, with the latest EA		
		evidence showing these risks will		
		increase significantly over the		
		coming years. Much of the area sits		
		over a vadose zone where the water		
		saturation levels are dependent on		
		weather and tide conditions. Indeed,		
		much of the Fylde marsh areas are		
		subject to continual movement and		
		circulation with considerable		
		variation in the periodicity of these		
		motions, as illustrated by		
		appearance and disappearance of		
		various wartime wrecks which were		
		dumped into the Ribble marshes,		
		which do periodically re-appear on		
		the surface. (REP6-158)		
Traffic and	There are no direct or indirect	There are both direct and indirect	Access to Hillhouse is via direct	None
Transport	benefits from the Application	that result from the planned	connection to A class roads, with	
		activities. The direct harms are the	new road proposed for access to the	
		potential damage to the access	site northern end. Should the	
		routes, the creation of inappropriate	adjacent railway be re-established,	
		access routes (some of which have	as was planned for in the near	
		been recognised following protest	future, this could offer further	
		and removed or revised). There are	benefit in terms of site access as	
		issues relating to temporary traffic	there was a freight siding there in the	
		controls which will be necessary	past.	
		now that the Applicant has deleted		
		the option of road closures. There		
		will still be disturbance and		
		inconvenience created. There are		
		impacts on public rights of way at all		
		levels, all of which impact adversely		
		on the operations of the local		
		community and it is clear that there		

		are still ongoing issues with the Applicant over their demanded rights, which are deemed excessive and inappropriate (See CAH3, for example) (REP6-158)		
Noise and	None	Issues due to the construction and	None	None
Vibration		installation, with the residual noise		
		from the substations once		
		operational being forecast to be		
		around 30dB above ambient level 24		
		hours a day. This has been raised		
		because of the impact on nearby		
		residents and particularly the		
		schools. Some children may		
		experience their whole school life in		
		the presence of intrusive noise and		
		vibration. (<u>REP6-158</u>)		

ANNEX 2 – PLAN SHOWING ALTERNATIVE CABLE ROUTE AND BOUNDARY OF HILLHOUSE TECHNOLOGY ENTERPRISE ZONE

The alternative cable route is shown in purple and can be seen to be 2km in length given the Ordnance Survey light blue 1km grid lines; an alternative and slightly longer route skirting the Green Belt is shown to the south. The boundary of the Hillhouse Technology Enterprise Zone is in blue, and the Walney substation in light green and the Stanah substation in dark red are shown to the south.

