Project Sheet

Greenlink

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Index

Key Information 3
Description 3
Project Description & Context 5
Project Investments 5
System Needs addressed by the project 5
Interconnection targets 5
Project Assessment 9
Transfer capacity increase (National Trends 2025) 9
Boundary capacity diagram 9
CBA results 10
Central scenario: National Trends 10
Scenarios: Distributed Energy & Global Ambition 13
Non scenario-dependent indicator(s) 14
Sensitivity Study: Current Trends 14
Residual impact 15
Project Costs 18

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Key Information

Cross Border Project
Offshore DC transmission cable
New

PCI number 1.9.1 (4th list, 31 Oct. 2019)
In Permitting

Description

An electricity interconnector between Ireland and Wales, Greenlink brings significant benefits on both sides of the Irish Sea for energy security and the integration of renewable low carbon energy sources. For Ireland, it provides a natural link to the EU and Nordic electricity markets via Wales, England and Scotland.

Greenlink will employ proven HVDC technology and is similar to the successful East West Interconnector between North Wales and Ireland. The cable route will run from existing substations in Great Island, Co. Wexford and Pembrokeshire in Wales connecting EirGrid and National Grid power systems. It is unobtrusive, being underground subsea cables with a converter station located at each connection point.

Both Ireland and the UK have stated their support for increased interconnection and its strategic benefits.

Project promoters

Element Power
Statkraft

Countries

United Kingdom
Ireland

National development plan(s)

National Grid's Electricity Ten Year Statement 2018 in Appendix C Figure C4:
https://www.nationalgrideso.com/document/133191/download

Additional information on the project

For up to date project information see the web site:
https://www.greenlink.ie/

Greenlink is included in the 4th list of PCI projects.

Greenlink received funding support from Connecting Europe Facility as follows:

o April 2015 – December 2016 for up to 50% of €1,619,090 for an Action to conduct a series of environmental studies & surveys and address the regulation, grid and financial aspects of Greenlink.

o April 2018 – September 2019 for up to 50% of €9,525,914 for an Action to submit permitting documents, carry out onshore and offshore surveys and studies and to address regulatory, grid and financial aspects of Greenlink

o October 2018 – December 2020 for up to 50% of €7,200,646 for an Action to complete the remaining major development activities to reach financial close

Greenlink is referenced as a contracted interconnector in National Grid's Electricity Ten Year Statement 2017 in table 2.3 and in National Grid's Electricity Ten Year Statement 2018 in Appendix C Figure C2. In National Grid's Network Options Assessment 2018/19, the interconnection analysis suggests that a total interconnection capacity of between 18.4GW and 21.4 GW between GB and European markets by 2031 would provide optimal benefit. The analysis demonstrates that the GB consumer can benefit from more interconnection and all four scenarios considered in the assessment resulted in additional interconnection to Ireland. Europe and GB would benefit both economically and environmentally from increased interconnection.

In July 2019, the Irish Department of Communications, Climate Action and Environment (DCCAE) published a Climate Action Plan setting out the Irish government's ambitious renewable energy target of 70% electricity from offshore wind, onshore wind, solar and other renewable technologies by 2030. The plan includes indicative targets of at least 3.5GW of offshore renewable energy, up to 1.5GW of grid-scale solar energy and up to 8.2GW total of increased onshore wind capacity. The plan recognised the importance of increased interconnection in achieving those goals.

On 24 October 2017 the Commission for Regulation of Utilities (CRU) directed EirGrid to progress to the next stage any grid connection applications for electricity interconnectors with Project of Common Interest status, which includes Greenlink. EirGrid has progressed Greenlink's connection application and Greenlink expects to receive a grid connection offer in July 2019. This is one of the critical pieces in the jigsaw of a project with wide-ranging political support, technical feasibility and excellent value-for-money for consumers.

Project sheet backlog

6 Nov. 2020 - Publication as part of the draft TYNDP 2020 package for consultation

Project Description & Context

Project Investments

Main investment(s): A subsea HVDC interconnector between Wales and Ireland

Type of element	Total route length (km)	From substation 1	To substation 2	Present status	Commissioning year	Progress of the investment	Explanation in case of delay or reclustering
Offshore DC transmission cable	195	Great Island	Pembroke	Planned But Not Yet Permitting	2023	Delayed	The PCI was delayed due to regulatory processes in the Republic of Ireland which have now been remedied. The Commission for Regulation of Utilities (CRU), on 21 October 2017, directed EirGrid to progress grid applications from interconnectors with PCI status, including Greenlink; also the CRU issued an information paper on 21 March 2018 acknowledging Greenlink's application and setting out the timeframe to develop, consult, and make an initial decision on, Greenlink's application by 30 September 2018.

Is the project in the reference grid?

No

System Needs addressed by the project

Project promoter(s) selected up to 4 system needs that are addressed by their project in a predefined list. Available needs ranged from reduction of price differentials between countries, improvement of system flexibility and stability, enabling cost-efficient connection of high volumes of RES, improvement of voltage stability...
As part of the TYNDP 2020, ENTSO-E released a study investigating cross-border system needs in the 2030 and 2040 horizons.

The project promoter did not select any need.

Interconnection targets

In 2017, the Interconnection Target Expert Group proposed alternative indicators to the 15% interconnection criteria for every country and electrified island with a new methodology developed collaboratively between the European Commission, ENTSO-E, ENTSOG, industry, universities and other experts. The methodology is based on three indicators:
1. Price differential between EU countries, with an objective to reduce it below 2 EUR/MWh
2. Ratio between nominal transmission capacity and installed RES capacity, with a target of past 30%
3. Ratio between nominal transmission capacity and peak load, with a target of past 30%

The following maps show the ITEG methodology applied to the TYNDP 2030 scenarios, with the 2020 grid.

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Project Assessment

Transfer capacity increase (National Trends 2025)

	Border	A B	B A
Transfer capacity increase (in MW)	United Kingdom - Ireland	500	500

Boundary capacity diagram

Network boundary the projects helps mitigate

Island of Ireland - Great-Britain and Continental Europe

Boundary capacity diagram

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CBA results

ENTSO-E has assessed the benefits delivered by each project in 2025 (scenario National Trends 2025) and in 2030 (three scenarios: National Trends, Distributed Energy and Global Ambition). Indicators B1 to B6 were computed by ENTSO-E, while promoters had the possibility to compute and submit so-called project-level benefits (B7 to B10). The benefits must be understood as benefits for Europe as a whole, not for the promoters of the project.
Results are presented per scenario.

Central scenario: National Trends

National Trends is the central policy scenario of the TYNDP2020, designed to reflect EU member state's National Energy and Climate Plans (NECP), in line with the requirement to meet current European 2030 energy strategy targets.

			Comparison of the COP21 scenarios with NT2030 average result		
	NT2025	NT2030	DE2030 is < or > than NT2030	GA2030 is < or > than NT2030	

Increase in socio-economic welfare

B1 Annual Socio-Economic Welfare (SEW) increase (M € / year)	max average min	33 30 28	65 63 62	>	>	ENTSO-E assessment
B1_CO2 Annual Socio-Economic Welfare increase resulting from CO2 emissions reduction	max average min	6 5 4	7 6 5	>	>	ENTSO-E assessment
B1_RES Annual Socio-Economic Welfare increase resulting from RES integration	max average min	17 14 12	50 46 42	>	>	ENTSO-E assessment

Reduction of CO2 and GHG emissions

B4 Non-CO2 emissions (kg/year)

B4a Nitrogen oxides	average	-565	-55	n/a	n/a	ENTSO-E assessment
B4b Ammonia	average	-18	-38	n/a	n/a	ENTSO-E assessment
B4c Sulfur dioxide	average	-804	391	n/a	n/a	ENTSO-E assessment
B4d Particular matter 5	average	-782	-4255	n/a	n/a	ENTSO-E assessment
B4e Particulate matter 10	average	-10	3	n/a	n/a	ENTSO-E assessment
B4f Non-methane volatile organic compounds	average	-774	-4260	n/a	n/a	ENTSO-E assessment

B2a Annual CO2 variation from market simulation (ktonnes / year)		max average min	-166 -223 -281	-188 -231 -267	< 	< 	ENTSO-E assessment
B2a_€ Annual Societal cost variation resulting from CO2 variation from market simulation monetised (M € / year)	CO2 price	60€/ ton 100€/ ton 189€/ ton	8 17 37	7 17 37	< > >	< > >	ENTSO-E assessment
B2b Annual CO2 variation due to network losses (ktonnes / year)		average	62	39	n/a	n/a	ENTSO-E assessment
B2b_€ Annual Societal cost variation resulting from CO2 variation from network simulation monetised (M € / year)	CO2 price	60€/ ton 100€/ ton 189€/ ton	-2 -4 -8	-3 -2 -4	n/a	n/a	ENTSO-E assessment

Integration of renewable energy sources

B3 Annual avoided curtailment (RES integration) (GWh / year)		max average min	363 291 236	1253 1207 1147	>	<	ENTSO-E assessment
B3a Connected RES (MW)	-				n/a	n/a	ENTSO-E assessment

Impact on grid losses

B5 Variation of network losses (GWh / year)		average	114	244	n/a	n/a	ENTSO-E assessment
B5_€ Variation of network losses monetised (M€ /		average	4	5	n/a	n/a	ENTSO-E assessment

year)					

Security of supply

B6 Annual reduction in Energy Not Served (MWh / year)	max average min		2748	n/a	n/a	ENTSO-E assessment
B6_€ Annual Socio-Economic Welfare increase resulting from reduction in Energy Not Served monetised (M€ / year)	average	n/a	20	>	n/a	ENTSO-E assessment

Scenarios: Distributed Energy & Global Ambition

DE and GA are two scenarios created in line with the COP21 targets to understand the impact on infrastructure needs agains different pathways reducing EU-28 emissions to net-zero by 2050. For these two scenarios, projects were assessed with a subset of CBA parameters.

		DE2030	GA2030	

Increase in socio-economic welfare

B1 Annual Socio-Economic Welfare (SEW) increase (M€ / year)	average	76	66	ENTSO-E assessment
B1_CO2 Annual Socio-Economic Welfare increase resulting from CO2 emissions reduction	average	22	10	ENTSO-E assessment
B1_RES Annual Socio-Economic Welfare increase resulting from RES integration	average	73	53	ENTSO-E assessment

Reduction of CO2 and GHG emissions

B2a Annual CO2 variation from market	average	-409	-288	ENTSO-E assessment

simulation (ktonnes / year)				
B2a_€ Annual Societal cost variation resulting from CO2 variation from market simulation monetised (M€ / year)	CO2 price	60€/ ton 100€/ ton 189€/ ton	3 19 56	7 19 44	ENTSO-E assessment

Integration of renewable energy sources

B3 Annual avoided curtailment (RES integration) (GWh / year)	average	1301	1198	ENTSO-E assessment
B3a Connected RES (MW)	-			ENTSO-E assessment

Non scenario-dependent indicator(s)

B8.0 Stability (Transient, Voltage and Frequency Stability)	**Transient stability**	**Voltage stability**	**Frequency stability**	
Greenlink (New HVDC)	++	++	+ (between sync areas)	Qualitative assessment by ENTSO-E based on information on the project technology provided by the project promoter(s). This indicator is not dependent on scenarios or time horizons.

Sensitivity Study: Current Trends

'Current Trends' describes a future where the energy transition is slower than planned.

	CT2030	

Increase in socio-economic welfare

B1 Annual Socio-Economic Welfare (SEW) increase (M€ /	average	36	ENTSO-E assessment

year)			
B1_CO2 Annual Socio-Economic Welfare increase resulting from CO2 emissions reduction	average	5	ENTSO-E assessment
B1_RES Annual Socio-Economic Welfare increase resulting from RES integration	average	32	ENTSO-E assessment

Reduction of CO2 and GHG emissions

B2a Annual CO2 variation from market simulation (ktonnes / year)	average	-172	ENTSO-E assessment
B2a_€ Annual Societal cost variation resulting from CO2 variation from market simulation monetised (M€ / year)	CO2 price	60€/ ton 100€/ ton 189€/ ton	6 12 28	ENTSO-E assessment

Integration of renewable energy sources

B3 Annual avoided curtailment (RES integration) (GWh / year)	average	583	ENTSO-E assessment
B3a Connected RES (MW)	-		ENTSO-E assessment

Residual impact

Information on the residual impact of the project was provided by the project promoter(s).

Residual environmental impact

Investment	Investment status	Distance (km)	Type of sensitivity
Greenlink	Planned But Not Yet	0.08	Habitats Directive (92/43/EEC)

	Permitting		
		7.8	Habitats Directive (92/43/EEC)
		49.6	Habitats Directive (92/43/EEC)
		0.7	Habitats Directive (92/43/EEC)
		0.4	Habitats Directive (92/43/EEC)
		22.3	Habitats Directive (92/43/EEC)
		36.9	Habitats Directive (92/43/EEC)
		0.7	Other nature protection areas under national law
		3.2	Other nature protection areas under national law

Note based on CBA Guideline 3.0: Given that the actual route of the project might not be defined due to the low degree of maturity of its investment(s), an environmental assessment is not yet available.

Additional information by the project promoter(s)

1. River Barrow and River Nore SAC, Habitats Directive
Submission: https://www.greenlink.ie/foreshorelicenceapplicationireland
Marine Natura Impact Statement (NIS): https://download-files.wix.com/_api/download/file?downloadToken=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ1cm46YXBwOmU2NjYzMGU3MTRmMDQ5MGFhZWExZjE0OWIzYjY5ZTMyIiwic3ViIjoidXJuOmFwcDplNjY2MzBlNzE0ZjA0OTBhYWVhMWYxNDliM2I2OWUzMiIsImF1ZCI6WyJ1cm46c2VydmljZTpmaWxlLmRvd25sb2FkIl0sImlhdCI6MTU5OTIwNTMwMCwiZXhwIjoxNTk5MjA2MjEwLCJqdGkiOiJlOTU3NTZmOGY1YjliLCJwYXlsb2FkIjp7InBhdGgiOiIvcmF3L2ZlNTFkY18zODIwNjY5NjY0NWM0OGMxYTc1YzdkMTBlNDM5MWEzZS5wZGYiLCJpbmxpbmUiOnsiZmlsZW5hbWUiOiJHcmVlbGluayBOSVMgKFAxOTc1X1I0Njk4X1JldkYyKS5wZGYifX19.3ta9woJHehmMe3LRJZ8bH6yhOylw5eIUPtfaX2ltYOk

2. Hook Head SAC, Habitats Directive
Submission: https://www.greenlink.ie/foreshorelicenceapplicationireland
Marine Natura Impact Statement (NIS): https://download-files.wix.com/_api/download/file?downloadToken=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ1cm46YXBwOmU2NjYzMGU3MTRmMDQ5MGFhZWExZjE0OWIzYjY5ZTMyIiwic3ViIjoidXJuOmFwcDplNjY2MzBlNzE0ZjA0OTBhYWVhMWYxNDliM2I2OWUzMiIsImF1ZCI6WyJ1cm46c2VydmljZTpmaWxlLmRvd25sb2FkIl0sImlhdCI6MTU5OTIwNTMwMCwiZXhwIjoxNTk5MjA2MjEwLCJqdGkiOiJlOTU3NTZmOGY1YjliLCJwYXlsb2FkIjp7InBhdGgiOiIvcmF3L2ZlNTFkY18zODIwNjY5NjY0NWM0OGMxYTc1YzdkMTBlNDM5MWEzZS5wZGYiLCJpbmxpbmUiOnsiZmlsZW5hbWUiOiJHcmVlbGluayBOSVMgKFAxOTc1X1I0Njk4X1JldkYyKS5wZGYifX19.3ta9woJHehmMe3LRJZ8bH6yhOylw5eIUPtfaX2ltYOk

3. Pembrokeshire Marine SAC, Habitats Directive
Submission: https://www.greenlink.ie/marinelicenceapplicationwales;
Marine Habitat Regulations Assessment (HRA): https://download-files.wix.com/_api/download/file?downloadToken=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ1cm46YXBwOmU2NjYzMGU3MTRmMDQ5MGFhZWExZjE0OWIzYjY5ZTMyIiwic3ViIjoidXJuOmFwcDplNjY2MzBlNzE0ZjA0OTBhYWVhMWYxNDliM2I2OWUzMiIsImF1ZCI6WyJ1cm46c2VydmljZTpmaWxlLmRvd25sb2FkIl0sImlhdCI6MTU5OTIwNTA0MCwiZXhwIjoxNTk5MjA1OTUwLCJqdGkiOiJkMmVkNWUwZDQ

zOTQiLCJwYXlsb2FkIjp7InBhdGgiOiIvcmF3L2ZlNTFkY19lMzNkOTlkNWE4YTc0MmYwOGU0MT
hkYTAzYWE1ZDdmNC5wZGYiLCJpbmxpbmUiOnsiZmlsZW5hbWUiOiJWb2wgM19BcHBlbmRpeCBD
IC0gSFJBLnBkZiJ9fX0.tORUBlwkUmNAsc35bCWQYeTmfq3ecL0B-50jLl72o7U

4. Castlemartin Coast SPA, Habitats Directive
Submission: https://www.greenlink.ie/marinelicenceapplicationwales;
Marine Habitat Regulations Assessment (HRA): https://download-files.wix.com/_api/download/file?
downloadToken=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ1cm46YXBwOmU2
NjYzMGU3MTRmMDQ5MGFhZWExZjE0OWIzYjY5ZTMyIiwic3ViIjoidXJuOmFwcDplNjY2MzBlNz
E0ZjA0OTBhYWVhMWYxNDliM2I2OWUzMiIsImF1ZCI6WyJ1cm46c2VydmljZTpmaWxlLmRvd25s
b2FkIl0sImlhdCI6MTU5OTIwNTA0MCwiZXhwIjoxNTk5MjA1OTUwLCJqdGkiOiJkMmVkNWUwZDQ
zOTQiLCJwYXlsb2FkIjp7InBhdGgiOiIvcmF3L2ZlNTFkY19lMzNkOTlkNWE4YTc0MmYwOGU0MT
hkYTAzYWE1ZDdmNC5wZGYiLCJpbmxpbmUiOnsiZmlsZW5hbWUiOiJWb2wgM19BcHBlbmRpeCBD
IC0gSFJBLnBkZiJ9fX0.tORUBlwkUmNAsc35bCWQYeTmfq3ecL0B-50jLl72o7U

5. Limestone Coast of South West Wales SAC, Habitats Directive
Submission: https://www.greenlink.ie/marinelicenceapplicationwales;
Marine Habitat Regulations Assessment (HRA): https://download-files.wix.com/_api/download/file?
downloadToken=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ1cm46YXBwOmU2
NjYzMGU3MTRmMDQ5MGFhZWExZjE0OWIzYjY5ZTMyIiwic3ViIjoidXJuOmFwcDplNjY2MzBlNz
E0ZjA0OTBhYWVhMWYxNDliM2I2OWUzMiIsImF1ZCI6WyJ1cm46c2VydmljZTpmaWxlLmRvd25s
b2FkIl0sImlhdCI6MTU5OTIwNTA0MCwiZXhwIjoxNTk5MjA1OTUwLCJqdGkiOiJkMmVkNWUwZDQ
zOTQiLCJwYXlsb2FkIjp7InBhdGgiOiIvcmF3L2ZlNTFkY19lMzNkOTlkNWE4YTc0MmYwOGU0MT
hkYTAzYWE1ZDdmNC5wZGYiLCJpbmxpbmUiOnsiZmlsZW5hbWUiOiJWb2wgM19BcHBlbmRpeCBD
IC0gSFJBLnBkZiJ9fX0.tORUBlwkUmNAsc35bCWQYeTmfq3ecL0B-50jLl72o7U

6. Skomer, Stokholm and the seas off Pembrokeshire SPA, Habitats Directive
Submission: https://www.greenlink.ie/marinelicenceapplicationwales;
Marine Habitat Regulations Assessment (HRA): https://download-files.wix.com/_api/download/file?
downloadToken=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ1cm46YXBwOmU2
NjYzMGU3MTRmMDQ5MGFhZWExZjE0OWIzYjY5ZTMyIiwic3ViIjoidXJuOmFwcDplNjY2MzBlNz
E0ZjA0OTBhYWVhMWYxNDliM2I2OWUzMiIsImF1ZCI6WyJ1cm46c2VydmljZTpmaWxlLmRvd25s
b2FkIl0sImlhdCI6MTU5OTIwNTA0MCwiZXhwIjoxNTk5MjA1OTUwLCJqdGkiOiJkMmVkNWUwZDQ
zOTQiLCJwYXlsb2FkIjp7InBhdGgiOiIvcmF3L2ZlNTFkY19lMzNkOTlkNWE4YTc0MmYwOGU0MT
hkYTAzYWE1ZDdmNC5wZGYiLCJpbmxpbmUiOnsiZmlsZW5hbWUiOiJWb2wgM19BcHBlbmRpeCBD
IC0gSFJBLnBkZiJ9fX0.tORUBlwkUmNAsc35bCWQYeTmfq3ecL0B-50jLl72o7U

7. West Wales Marine SAC, Habitats Directive
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downloadToken=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ1cm46YXBwOmU2
NjYzMGU3MTRmMDQ5MGFhZWExZjE0OWIzYjY5ZTMyIiwic3ViIjoidXJuOmFwcDplNjY2MzBlNz
E0ZjA0OTBhYWVhMWYxNDliM2I2OWUzMiIsImF1ZCI6WyJ1cm46c2VydmljZTpmaWxlLmRvd25s
b2FkIl0sImlhdCI6MTU5OTIwNTA0MCwiZXhwIjoxNTk5MjA1OTUwLCJqdGkiOiJkMmVkNWUwZDQ
zOTQiLCJwYXlsb2FkIjp7InBhdGgiOiIvcmF3L2ZlNTFkY19lMzNkOTlkNWE4YTc0MmYwOGU0MT
hkYTAzYWE1ZDdmNC5wZGYiLCJpbmxpbmUiOnsiZmlsZW5hbWUiOiJWb2wgM19BcHBlbmRpeCBD
IC0gSFJBLnBkZiJ9fX0.tORUBlwkUmNAsc35bCWQYeTmfq3ecL0B-50jLl72o7U

8. Broomhill Burrows SSSI, Other nature protection areas under national law
Submission:
https://www.greenlink.ie/wales-onshore-planning
Statement to Inform Habitat Regulations Assessment (HRA):
https://download-files.wix.com/_api/download/file?downloadToken=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ1cm46YXBwOmU2NjYzMGU3MTRmMDQ5MGFhZWExZjE0OWIzYjY5ZTMyIiwic3ViIjoidXJuOmFwcDplNjY2MzBlNzE0ZjA0OTBhYWVhMWYxNDliM2I2OWUzMiIsImF1ZCI6WyJ1cm46c2VydmljZTpmaWxlLmRvd25sb2FkIl0sImlhdCI6MTU5OTIwNTUxMiwiZXhwIjoxNTk5MjA2NDIyLCJqdGkiOiJkMTllYzA5MjE1ZTUiLCJwYXlsb2FkIjp7InBhdGgiOiIvcmF3L2ZlNTFkY185N2Y1YTdmNzJhNDQ0ZDFlYjYzZjcyZDM1MDk3YjU0NC5wZGYiLCJpbmxpbmUiOnsiZmlsZW5hbWUiOiJHcmVlbmxpbmsgT25zaG9yZSBXYWxlcyBFUyAtIEFwcGVuZGl4IDYuMTEgLSBTdGF0ZW1lbnQgdG8gSW5mb3JtIGFuIEhSQS5wZGYifX19.yhl7rAnopDDwPK_6Q032lQ7bu6Vacne29gLHOqKoCy8

9. Additional National Park Pembrokeshire Coast, Other nature protection areas under national law

Submission:
https://www.greenlink.ie/wales-onshore-planning
Statement to Inform Habitat Regulations Assessment (HRA):
https://download-files.wix.com/_api/download/file?downloadToken=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJ1cm46YXBwOmU2NjYzMGU3MTRmMDQ5MGFhZWExZjE0OWIzYjY5ZTMyIiwic3ViIjoidXJuOmFwcDplNjY2MzBlNzE0ZjA0OTBhYWVhMWYxNDliM2I2OWUzMiIsImF1ZCI6WyJ1cm46c2VydmljZTpmaWxlLmRvd25sb2FkIl0sImlhdCI6MTU5OTIwNTUxMiwiZXhwIjoxNTk5MjA2NDIyLCJqdGkiOiJkMTllYzA5MjE1ZTUiLCJwYXlsb2FkIjp7InBhdGgiOiIvcmF3L2ZlNTFkY185N2Y1YTdmNzJhNDQ0ZDFlYjYzZjcyZDM1MDk3YjU0NC5wZGYiLCJpbmxpbmUiOnsiZmlsZW5hbWUiOiJHcmVlbmxpbmsgT25zaG9yZSBXYWxlcyBFUyAtIEFwcGVuZGl4IDYuMTEgLSBTdGF0ZW1lbnQgdG8gSW5mb3JtIGFuIEhSQS5wZGYifX19.yhl7rAnopDDwPK_6Q032lQ7bu6Vacne29gLHOqKoCy8

Residual social impact

Investment	Investment status	Distance (km)	Type of sensitivity

Note based on CBA Guideline 3.0: Given that the actual route of the project might not be defined yet because of the low degree of maturity of its investment(s), a residual social impact assessment is not yet available.

Project Costs

The project costs were provided by the project promoter(s).

	CAPEX (Meuro)	Uncertainty range (%)	OPEX
1385. Greenlink	396	+/-10%	8
Total	396		8

Explanation provided by the project promoter on the CAPEX uncertainty range:

1385

ENTSO-E