HyNet North West

ENVIRONMENTAL STATEMENT (VOLUME III)

Appendix 4.1 – Guiding Principles, Factors and Criteria for Options

HyNet Carbon Dioxide Pipeline DCO

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulations 5(2)(a)

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APPENDIX 4.1 - GUIDING PRINCIPLES, FACTORS AND CRITERIA FOR OPTIONS1

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Guiding principles	Factor	Criteria	
To avoid, minimise and manage impacts upon the environment and local amenity	Ecology	Ancient Woodland	
		Habitats of Principal Importance (HPI) (incl. waterbodies / watercourses)	
		European ecological designations: - Ramsar sites - Special Areas of Conservation (SACs) - Special Protection Areas (SPAs) National ecological designations:	
		National Nature Reserves (NNRs) Sites of Special Scientific Interest (SSSIs) Marine Conservation Zones (MCZs) Local designated, non-statutory wildlife sites	
		Scheduled Monuments	
	Heritage		
		Listed Buildings Conservation Areas	
		Registered Parks & Gardens or Registered Historic Landscapes Historic Environment Records for Buried Assets	
	Flood Risk	Flood Risk (Fluvial Water) (for construction phase / above ground structures only) Inland flood risk	
	Water Quality and Resources	Groundwater quality and resources: - Source Protection Zones - Aquifer type	
		Inland surface water quality Transitional waters Coastal waters	
	Air Quality	Proximity to Sensitive Receptors Air Quality Management Areas	
	Noise and vibration	Proximity to Sensitive Receptors - Residential - Schools - Hospitals	
	Soils and Geology	Previous land use and potential for contamination pathways	
		Best and Most Versatile Agricultural Land	
		Minerals	
	Landscape and Visual	National landscape designations: - National Parks - Areas of Outstanding Natural Beauty (AONBs) - Heritage Coasts	
		Locally designated landscapes, e.g. Areas of High Landscape Value, Special Landscape Areas, Registered Landscapes of Outstanding and of Special Interest.	
	Traffic and transport	Temporary impact on transport infrastructure, including disruption during construction causing journey delays	

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Guiding principles	Factor	Criteria	
To optimise the potential local socio-economic benefits within the region	Socio- economics	Recreational and community facilities: - Walkers, Cycling and Horse Riding Facilities: - Public Rights of Way - National Trails - Sustrans routes Employment, community and residential facilities - Private property and open space	
To minimise the need for compulsory acquisition To utilise existing infrastructure and routing corridors where possible	Land and Planning	Crown Land Common Land and Open Space Land owners affected Inalienable land	
To ensure the transportation of the CO ₂ is undertaken safely and securely	Health and Safety	Green Belt Major planning permissions/site allocations Compliance UK Health and Safety Legislation / design requirements Proximity to normally occupied dwellings as defined in BS PD 8010 Part 1 Landfills, health risks to construction workers	
To be technically viable and constructible with minimum disruption	Complexity of crossings Deliverability	Road, railway, river, utilities Construction complexity, e.g. ground conditions, limited flexibility, ratio between urban and rural areas	
To be cost-effective	Capital cost Operating cost	Reliable costs Third party requirements Complexity Flexibility Programme Maintenance / accessibility	

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