Balliemeanoch Pumped Storage Hydro

Environmental Impact Assessment Report

Volume 5: Appendices
Appendix 17.2: In-combination Climate Change Impact (ICCI) Assessment

ILI (Borders PSH) Ltd

July 2024

Delivering a better world

Quality information

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Revision History

Revision	Revision date	Details	Authorized	Name	Position
1	July 2024	Submission	DL	David Lee	Technical Director

Distribution List

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Appendix 17.2: In-combination Climate Change Impact (ICCI) Assessment

Discipline/Receptor	Climate Hazard	Likelihood of Climate Hazard Occurring	Likely ICCIs Identified	Description of ICCI considering embedded environment measures/good practice	Likelihood Consequence of ICCI occurring	Consequence of ICCI	Significance e.g. low, medium, high, extreme
Geology and Soils: Peatlands	Increased number of hot days	Possible	Increase in temperature of peatland soils due to warmer temperatures	An increase in the overall temperature of peatland soils may result in peatland soils	Unlikely	Very Low	Negligible (not significant)
Geology and Soils: Peatlands	Increased number of hot days	Possible	Increased risk of wildfire due to warmer temperatures	An increase in the temperatures has the potential to change wildfire regimes, with droughts making peatlands more susceptible to burning. This can change peatlands from net sinks for carbon and GHGs to net sources.	Geology and Soils: Peatlands	Increased number of hot days	Possible (not significant)
Geology and Soils: Peatlands	Increased number of dry days	Possible	Changes to the hydrological condition of peatland soils due to dryer days	Changes to the hydrological condition within peatlands will affect how quickly organic material decays. This consequence would be minimised through re-wetting, appropriate restoration of peatlands and improved peatland management.	Unlikely	Very Low	Negligible (not significant)
Cultural Heritage	An increase in sea level could impact the water level of Loch Fyne	Possible	Parts of Inveraray Castle Garden and Designed Landscape / listed buildings in Inveraray are being submerged.	No suitable mitigation other than monitoring of water levels.	Possible	Low	Minor (not significant)
Cultural Heritage	Increased rainfall	Possible	Increased erosion of built heritage as well as archaeological features	No suitable mitigation other than monitoring of rainfall.	Possible	Low	Minor (not significant)
Cultural Heritage	Episodes of drought	Possible	Dewatering of waterlogged archaeological deposits	No suitable mitigation.	Possible	Low	Minor (not significant)