

Appendix 17A
CCRA Risk Register

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SSE Tarbert Next Generation Power Station

Environmental Impact Assessment Report (EIAR)
Volume II
Appendix 17A CCRA Risk Register

SSE Generation Ireland Limited

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Appendix 17A CCRA Risk Register

Climate Variable	Risk Statement	Components Impacted	Embedded Controls	Initial Risk (RCP 8.5)	Adaptation Measures Recommended	Residual Risk (RCP 8.5)
Construction						
Increase in Summer/Annual maximum temperature	Extreme heat may cause overheating and damage to electrical equipment	Construction Assets	Energy strategy, monitoring of weather forecasts	Low	None	Low
Increase in frequency and severity of heatwaves	Heatwaves may cause disruption to construction schedules	Staff and Visitors	Monitoring of weather forecasts	Low	None	Low
Increase in winter precipitation	Increased precipitation may lead to flooding, disrupting site access and construction schedule	Staff and Visitors, Drainage, Roads & Pavement	Construction flood prevention measures including flood barriers, bunding and suitable material storage locations. Further details will be provided in the CEMP	Low	None	Low
Operation						
Increase in Summer temperature	Cracking of roads and pavements due to higher temperatures	Roads & Pavements, Associated Infrastructure	Use of best practice resilient and sustainable materials	Low	None	Low
Increase in frequency and severity of heatwaves	High temperatures can reduce the efficiency of OCGT energy generation	Critical Plant Equipment	None	Low	None	Low
Increase in Winter precipitation	Flooding of the Shannon Estuary may threaten the operation	All	Storm water management plans,	Medium	Introduce flood prevention to +4.8mAOD	Low

Climate Variable	Risk Statement	Components Impacted	Embedded Controls	Initial Risk (RCP 8.5)	Adaptation Measures Recommended	Residual Risk (RCP 8.5)
	of the Proposed Development		best practice flood prevention measures			
Increase in Winter precipitation	Spread of pollutants due to flooding and improper storage of pollutants	Drainage, Associated Infrastructure	Adequate protected storage of potential pollutants	Low	None	Low
Increase in no. of wet days	Damage to building foundations due to increased precipitation	All buildings, Drainage	Storm water management plans, best practice flood prevention measures	Low	None	Low
Increase in frequency and severity of storms	Extreme storm events may cause flooding and wind damage to critical infrastructure	All buildings, Drainage	Storm water management plans, best practice flood prevention measures	Low	None	Low
Sea level rise	Flooding of the site due to sea level rise	All	Storm water management plans, best practice flood prevention measures	Low	None	Low
Increase in strong winds	Strong winds can cause significant damage to critical infrastructure and create safety hazards	All buildings	Minimise maintenance during strong wind events	Low	None	Low