



Lime Down

Solar Park

Environmental Statement

Volume 3, Appendix 20-6: Long List of Major Accidents and Disasters

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Appendix 20-6: Long List of Major Accidents and Disasters

1.1 Introduction

- 1.1.1 This appendix sets out the Long List of Major Accidents and Disasters developed by reviewing the UK Government's National Risk Register (Ref 1) and the Wiltshire and Swindon Prepared Registered Risks¹ (Ref 2).
- 1.1.2 The interrelationship between the risks identified and legislation is outlined in **Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1]**.

¹ At the time of writing the full Wiltshire and Swindon Prepared Community Risk Register was not available to review.

Table 1 Long List of Major Accidents and Disasters

Major Accident or Disaster	Taken forward to the short list?	Why? (note if risk to the project, or project exacerbates risk)	Potential receptors	Covered already in the ES? If so, where?
1 Geological Disasters				
1.1 Landslides	No	The risk of landslides is minimal given the flat nature of the land within the Order Limits. Nonetheless, landslides are considered within '6.8 Mining/Extractive Industry' which is scoped into the assessment contained within Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1].	N/A	Chapter 19: Ground Conditions [EN010168/APP/6.1].
1.2 Earthquakes	No	The Scheme is not located in a geologically active area and as such earthquakes are not considered to be a real risk of serious possibility. Should such an event arise national guidance would be followed.	N/A	N/A
1.3 Sinkholes	No	The risk of sinkholes will be considered as part of the geotechnical design, ensuring that the risk is designed out, both in terms of the vulnerability of the Scheme to these types of events, and also in terms of the potential for the Scheme to increase the risk of such an event happening.	N/A	N/A
2 Hydrological Disasters				
2.1 Flooding	Yes	Parts of the Scheme are located within Flood Zones 2 and 3. Flood events can result in damage to property, pollution to land or water and impact communities through displacement. Therefore, the risk of floods has been assessed	Property and people in areas of increased flood risk.	Chapter 7: Climate Change [EN010168/APP/6.1]. Chapter 11: Hydrology, Flood Risk and Drainage

Major Accident or Disaster	Taken forward to the short list?	Why? (note if risk to the project, or project exacerbates risk)	Potential receptors	Covered already in the ES? If so, where?
		within Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1].		[EN010168/APP/6.1]. Chapter 20: Other Environmental Matters [EN010168/APP/6.1].
2.2 Limnic Eruptions	No	Not applicable as there are no lakes nearby.	N/A	N/A
2.3 Tsunami/Storm Surge	No	Not applicable as the Scheme is not in a coastal location.	N/A	N/A
3 Meteorological Disasters				
3.1 Blizzards	No	The Scheme is considered to be no more vulnerable than any other development.	N/A	N/A
3.2 Cyclonic storms	No	Although there are storms in the UK, their destructive force tends to be much less than in other parts of the world and the Scheme is not particularly vulnerable to any potential effects.	N/A	N/A
3.3 Droughts	No	Droughts are only considered as a disaster due to water shortages for essential services and where there are indirect impacts on food production, loss of soils etc. The Scheme is not considered to be vulnerable to drought.	N/A	N/A
3.4 Thunderstorms	No	As the Scheme includes metal components, there is a risk of lightning strikes. However, these risks will be removed or reduced through inbuilt control systems and can be scoped out.	N/A	N/A
3.5 Hailstorms	No	The Scheme is considered to be no more vulnerable than any other development.	N/A	N/A
3.6 Heatwaves	No	While impacts are expected as a result of projected temperature increases (due to climate	N/A	N/A

Major Accident or Disaster	Taken forward to the short list?	Why? (note if risk to the project, or project exacerbates risk)	Potential receptors	Covered already in the ES? If so, where?
		change), these temperature increases are not expected to have a significant impact on the Scheme. It is anticipated that the cooling systems for the battery energy storage systems will regulate temperatures to within safe conditions.		
3.7 Tornadoes	No	Although there are tornadoes in the UK, their destructive force tends to be much less than in other parts of the world and the Scheme is not particularly vulnerable to any potential effects.	N/A	N/A
3.8 Wildfires	No	Although there are wildfires in the UK, these tend to be minor and can be efficiently dealt with by the local Fire and Rescue Department before posing a risk to the Scheme. In the unlikely event these occur it is anticipated that they would be extinguished before posing any risk to the Scheme infrastructure (including Battery Energy Storage Systems (BESS)).	N/A	N/A
3.9 Air Quality Events	Yes	If battery cells associated with the BESS become damaged by heat or are burnt within a fire, then the combustible materials consumed in the fire could give rise to a range of organic and inorganic air pollutants. Therefore, Air Quality events have been scoped into the shortlist.	Local residents, controlled waters and habitats and species	Chapter 15: Air Quality [EN010168/APP/6.1]. Chapter 20: Other Environmental Matters [EN010168/APP/6.1].
4 Transport				
4.1 Road Accidents	Yes	There will be transport movements associated with the construction, operation and decommissioning of the Scheme which could	Road users and the terrestrial	Chapter 9: Ecology and Biodiversity [EN010168/APP/6.1].

Major Accident or Disaster	Taken forward to the short list?	Why? (note if risk to the project, or project exacerbates risk)	Potential receptors	Covered already in the ES? If so, where?
		result in road accidents and potential for road related spillages into the surrounding environment. Therefore, the risk of road accidents has been assessed within Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1].	and aquatic environment	Chapter 11: Hydrology, Flood Risk and Drainage [EN010168/APP/6.1]. Chapter 13: Transport and Access [EN010168/APP/6.1]. Chapter 19: Ground Conditions [EN010168/ APP/6.1]. Chapter 20: Other Environmental Matters [EN010168/APP/6.1].
4.2 Rail Accidents	Yes	A rail line passes through the the Site. Therefore, the risk of rail accidents has been assessed within Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1].	Rail users.	Chapter 13: Transport and Access [EN010168/ APP/6.1]. Chapter 20: Other Environmental Matters [EN010168/APP/6.1].
4.3 Aircraft Disasters	Yes	Solar panels are known to have potential glint and glare impacts on aviation receptors and two airfields are located within 5km of the Scheme. Therefore, the risk of aircraft disasters has been assessed within Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1].	Aircraft users.	Chapter 20: Other Environmental Matters [EN010168/APP/6.1].
5 Engineering Accidents/Failures				
5.1 Bridge Failure	No	Not included as part of the Scheme. The failure of other bridges is beyond the control of the Applicant.	N/A	N/A

Major Accident or Disaster	Taken forward to the short list?	Why? (note if risk to the project, or project exacerbates risk)	Potential receptors	Covered already in the ES? If so, where?
5.2 Tunnel Failure or Fire	No	These Scheme is not located near to a tunnel and therefore this is not considered further.	N/A	N/A
5.3 Dam Failure	No	The Scheme is not located within or near any registered reservoirs (assumed with volumes >10,000m ³). The Scheme is therefore at low risk of flooding from reservoirs.	N/A	N/A
5.4 Flood Defence Failure	No	The Scheme is not located near any engineered flood defences and therefore is at low risk of flooding from flood defence failure.	N/A	Chapter 11: Hydrology, Flood Risk and Drainage [EN010168/APP/6.1].
5.5 Mast and Tower Collapse	No	There are three telephone masts within Lime Down C, however, these have been avoided as part of the design of the Scheme. Therefore, the Scheme is at low risk of mast collapse.	N/A	N/A
5.6 Building Failure, Fire and explosions	Yes	There may be some potential for fire a result of the battery storage element of the Scheme. Moreover, there may be a possibility of discovering Unexploded Ordinance during excavation work. Therefore, the risk of fire and explosions has been assessed within Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1].	Local residents, heritage features, controlled waters and habitats and species.	Chapter 3: The Scheme [EN010168/APP/6.1]. Chapter 19: Ground Conditions [EN010168/APP/6.1]. Chapter 20: Other Environmental Matters [EN010168/APP/6.1].
5.7 Utilities failure (gas, electricity, water, sewerage, oil, communications)	Yes	The Scheme has the potential to affect existing utility infrastructure above and below ground (and vice versa). Therefore, the risk of utilities failure has been assessed within Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1].	Employees, controlled waters and local residents.	Chapter 20: Other Environmental Matters [EN010168/APP/6.1].

Major Accident or Disaster	Taken forward to the short list?	Why? (note if risk to the project, or project exacerbates risk)	Potential receptors	Covered already in the ES? If so, where?
6 Industrial Accidents				
6.1 Defence Industry	No	Not applicable as there is no defence manufacturing nearby.	N/A	N/A
6.2 Energy Industry (fossil fuel)	No	Not applicable as there is no energy industry (fossil fuel) nearby.	N/A	N/A
6.3 Nuclear Energy	No	Not applicable as there is no nuclear power stations nearby.	N/A	N/A
6.4 Oil and Gas Refinery/Storage	No	Not applicable as there is no relevant industry nearby.	N/A	N/A
6.5 Food Industry	No	Not applicable as there is no relevant industry nearby.	N/A	N/A
6.6 Chemical Industry	No	Not applicable as there is no relevant industry nearby.	N/A	N/A
6.7 Manufacturing Industry	No	Not applicable as there is no relevant industry nearby.	N/A	N/A
6.8 Mining/Extractive Industry	Yes	There is the potential for current or mineral mining and extraction activity in the vicinity to lead to unstable ground conditions. Therefore, the risk of utilities failure has been assessed within Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1].	Employees and Local Residents.	Chapter 19: Ground Conditions [EN010168/APP/6.1]. Chapter 20: Other Environmental Matters [EN010168/APP/6.1].
7 Terrorism/Crime/Civil Unrest				
7.1 Terrorism/Crime/Civil Unrest	No	The Scheme is unlikely to be a target for these types of incidents due to its rural location and low number of exposed targets. Should such an	N/A	N/A

Major Accident or Disaster	Taken forward to the short list?	Why? (note if risk to the project, or project exacerbates risk)	Potential receptors	Covered already in the ES? If so, where?
		event arise, National guidance would be followed.		
8 War				
8.1 War	No	The Scheme is no more vulnerable than any other infrastructure. Should such an event arise, National guidance would be followed.	N/A	N/A
9 Disease				
9.1 Human disease	No	The Scheme is no more vulnerable than any other infrastructure. Should such an event arise, National guidance would be followed.	N/A	N/A
9.2 Animal disease	No	The Scheme is no more vulnerable than any other infrastructure. Should such an event arise, National guidance would be followed.	N/A	N/A
9.3 Plant disease	Yes	New planting may be susceptible to biosecurity issues, such as the increased prevalence of pests and diseases, due to climate change. Therefore, the risk of plant disease has been assessed within Chapter 20: Other Environmental Matters (Major Accidents and Disasters) [EN010168/APP/6.1].	Habitats and Species.	Chapter 9: Ecology and Biodiversity [EN010168/APP/6.1]. Chapter 8: Landscape and Visual [EN010168/APP/6.1]. Chapter 20: Other Environmental Matters [EN010168/APP/6.1].

1.2 References

- Ref 1 HM Government. (2025). National Risk Register – 2025 edition. Available at:
https://assets.publishing.service.gov.uk/media/67b5f85732b2aab18314bbe4/National_Risk_Register_2025.pdf [Accessed 02 May 2025].
- Ref 2 Wiltshire & Swindon Prepared. Registered Risks by Risk Rating. Available at: <https://wiltshireandswindonprepared.org.uk/rated-risks/vh> [Accessed 02 May 2025].