

Humber river basin district: climate change risk assessment worksheet

Name (as on your part A application form): Humberstone Road Energy Centre

Our permit reference number (if you have one): EPR/WE1981AB

Your document reference number: Climate Change RA

Risk assessment worksheet for the 2050s

Humber river basin district

You must carry out a climate change risk assessment for any new bespoke waste and installations permit applications if you expect to operate for more than 5 years. Use the [user guide](#) to complete the table. You can add in extra pages if necessary.

Consider how your operations will be affected by the changes in weather and climate described in the table. Consider any changes to average climate conditions that may impact on your operations, for example extreme rainfall.

Also consider:

- critical thresholds - where a 'tipping point' is reached, for example a specific temperature where site processes cannot operate safely
- changes to averages - for example an entire summer of higher than expected rainfall causing waterlogging
- where hazards may combine to cause more impacts

You can add in other climate variables if you wish.

If you have stated on your application form that you do not expect to be operational in 2050, you must still consider climate change risks for the time you do intend to operate. Whilst the variables are for the 2050s, this is an estimated date and you may experience these conditions before then.

This worksheet will sit in your management system. It must appear on the management system summary you submit with your application, even if you do not need to submit the whole risk assessment with your application.

If your pre-mitigation risk score (column D) is 5 or higher, you must complete columns E to H.

Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what will you do to mitigate this risk)	F Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
1. Summer daily maximum temperature may be around 6°C higher compared to average summer temperatures now.	No significant impact anticipated	1	1	1	N/A	1	1	1
2. Winter daily maximum temperature could be 4°C more than the current average, with the potential for more extreme temperatures, both warmer and colder than present.	No significant impact anticipated	1	1	1	N/A	1	1	1

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3. The biggest rainfall events are up to 20% more intense than current extremes (peak rainfall intensity)*.	The site is entirely within Flood Zone 3 (assessed as having a 1 in 100 or greater annual probability of river flooding (>1%), or a 1 in 200 or greater annual probability of flooding from the sea (>0.5%) in any year) There are no records of the site ever flooding in the past. Potential for surface water drains to be overwhelmed.	3	1	3	Ensure good integrity of surfaces, no external storage containers, waste stores etc, regular checks and uplifts of materials. Periodic inspections of drainage to assess condition of drainage as part of PPM to ensure adequacy for efficient removal of surface water from site.	2	1	2
4. Average winter rainfall may increase by 29% on today's averages.	Potential for surface water drains to be overwhelmed mobilising pollutants and containment systems There are no records of the site ever flooding in the past.	2	1	2	Potential for assets and storage areas to be recited away from any parts of the site subject to surface water pooling. Ensure good integrity of storage containers, regular checks and uplifts. Periodic inspections of drainage to assess condition of drainage as part of PPM to ensure adequacy for efficient removal of surface water from site.	1	1	1
5. Sea level could be as much as 0.6m higher compared to today's level *.	No significant impact anticipated.	1	1	1	N/A	1	1	1
6. Drier summers, potentially up to 34% less rain than now.	The activity is not reliant on towns water supplies	1	1	1	The activity is not reliant on towns water supplies	1	1	1

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7. At its peak, the flow in watercourses could be 30% more than now, and at its lowest it could be 65% less than now.	The site is entirely within Flood Zone 3 (assessed as having a 1 in 100 or greater annual probability of river flooding (>1%), or a 1 in 200 or greater annual probability of flooding from the sea (>0.5%) in any year) There are no records of the site ever flooding in the past.	2	1	2	<p>Potential for assets and storage areas to be recited away from any parts of the site subject to surface water pooling.</p> <p>Ensure good integrity of storage containers, regular checks and uplifts.</p> <p>Periodic inspections of drainage to assess condition of drainage as part of PPM to ensure adequacy for efficient removal of surface water from site.</p>	1	1	1

*Indicates data has come from climate change allowances as part of the spatial planning process. Evidence from your planning submission is acceptable evidence for this worksheet.