

Evaluation of Environmental Aspects

Methodology

This document outlines the methodology used to evaluate the significant impacts, considering a life cycle perspective, of the environmental aspects created by Bangor University (BU). The methodology used consists of establishing significance using criteria based around a formula of examining consequence and likelihood.

Table 1 Significant Aspects

Aspects Ref	Aspect/Activity	Environmental Impact	Significance Rating
A02	Heating of buildings by Oil	Emissions of CO ₂ and other emissions harmful to the environment. Deple48 rri4ers onatral anddiiref(s)8u-3trc(e)s.(ent.)JTETQ348.77 360.43 352	

Aspects Ref	Aspect/Activity	Environmental Impact	Significance Rating
A26	Use of air-conditioning	Depletion of resources (energy) and emissions (pollutants and contaminants) from operation. Use of hazardous chemicals and contamination into land and watercourses.	50
A27	Use of chemical materials	Use of raw materials. Pollution of land, air, watercourses and groundwater.	77
A28	Use of biological materials	Generation of hazardous biological material (including non-native species). Use of hazardous chemicals.	66
A30	Use of refrigerators, freezers and cold stores	Depletion of resources. Possible accidental release of ozone.	55
A31	Storage of chemicals and disposal of chemical waste	Pollution of land, air, watercourses and groundwater.	60
A32	Storage of biological materials and disposal of biological waste	Potential uncontrolled releases polluting land, watercourses and groundwater.	60
A34	Fuel oil	Potential uncontrolled releases polluting land, watercourses and groundwater.	60
A35	Procurement of construction works and materials	Depletion of natural and other resources. Pollution during manufacturing.	60
A36	Procurement of goods	Depletion of resources. Depletion of natural resources.	60
A38	Business travel by bike, car, minibus or van	Emissions of CO ₂ . Depletion of natural and finite resources. Noise.	60
A40	Business travel by airplane	Emissions of CO ₂ . Depletion of natural and finite resources. Noise	70

Table 2 All activities and aspects

Ref	Aspect/Activity	
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	Aspect/Activity	Environmental Impact	Consequence				Sub Total	Likelihood			Sub Total	Total
			A	B	C	D		X	Y	Z		
A13	Disposal of electrical and electronic equipment (WEEE) (including temporary storage)	Use of raw or finite materials. Generation of hazardous and non-hazardous waste	3	3	3	3	12	1	2	1	4	48
A14	Generation of sanitary waste	Generation of hazardous waste. Harmful emissions from incineration.	3	1	2	1	7	1	3	1	5	35
A15	Generation of general waste	Depletion of resources. Contamination to land & water. Littering. Harmful emissions from incinerated waste.	3	3	3	2	11	2	3	2	7	77
A16	Generation of recyclable waste (inc. food waste)	Depletion of resources. Contamination to land & water. Littering. Harmful emissions from treatment facilities.	3	3	2	2	10	2	3	2	7	70
A17	Generation of waste from construction sites	Pollution to land, air and water through inadequate planning. Fly tipping. Potential hazardous waste.										
A18	Generation of green waste	Generation of compostable waste.	3	2	2	2	9	1	2	1	4	36

Ref	Aspect/Activity	Environmental Impact	
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Ref	Aspect/Activity	Environmental Impact	Consequence	Sub Total	Likelihood	Sub Total	Total

EVALUATION CRITERIA		
Consequence = A + B + C + D		
A	Is there any legislation affecting the aspect?	
	The aspect is covered by legislation	3
	The aspect is likely to be covered by legislation	2
	The aspect is not covered by legislation	1
B	What interest does the aspect raise?	
	The aspect raises considerable global, national and local interest or would have serious detrimental effect on the reputation of the company	3
	The aspect raises some interest and may have some detrimental effect on the reputation of the company	2