

## APPENDIX ELEVEN: BUILDINGS AND CONSTRUCTION SUSTAINABLE DEVELOPMENT OBJECTIVES ANALYSIS

Matrix ref	Objective	Addresses social and economic Priorities (as defined in the Millenium Goals)	Can be achieved with limited resources & technical capacity	Addresses other social/ economic/ environmental objectives	Objective rating	Included In SBAT? If so, under which criteria?	Comments
	Environmental						
1C	Locate building where it conserves or increased the size, biodiversity and productivity of the natural environment and ecosystems.	N	Y	Y	2	EN4.1	
1D	Size and form designed to conserve or increase the size, biodiversity and productivity of the the bio-physical environment	N	Y	Y	2	EN4.3	
1E	Building envelope designed to conserve or increased the size, biodiversity and productivity of the bio-physical environment	N	N	Y	1	EN4.3	
1H	Specify furniture and fittings which conserve or increase the size, biodiversity and productivity of the bio-physical environment	N	Y	Y	2	EN5.2	Refers to materials and components
1I	Specify services which conserve or increase the size, biodiversity and productivity of the bio-physical environment	N	N	Y	1	EN2.5	
1J	Specify materials and components to conserve or increase the size, biodiversity and productivity of the bio-physical environment.	N	Y	Y	2	EN5.2	
1I	Construction process to conserve or increase the size, biodiversity and productivity of the bio-physical environment	N	Y	Y	2	EN5.5	
1J	Building operation to conserve or increase the size, biodiversity and productivity of the bio-physical environment	N	Y	Y	2	EC EN SO	
1m	Building demolition or refurbishment to conserve or increase the size, biodiversity and productivity of the bio-physical environment	N	Y	Y	2	EN 3.5 EN5.4 EN5.5	
2C	Locate building where it will support appropriate and effective management of the bio-physical environment	N	Y	Y	2		Partially addressed by EN4.4 EN4.5
2D	Site layout to support effective management of the bio-physical environment.	N	Y	Y	2		Partially addressed by EN4.4 EN4.5
2H	Ensure that all materials used in furniture and fittings come from managed sources within the bio-physical environment	N	N	Y	1		Partially addressed by EN5.2
2I	Ensure that resources that are used for services come from managed sources within the bio-physical environment	N	N	Y	1		Partially addressed by EN5.2
2J	Ensure that materials and components come from managed sources within the bio-physical environment	N	N	Y	1		Partially addressed by EN5.2
2L	Ensure that building operation processes use materials from managed sources within the bio-physical environment	N	N	Y	1		

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3H	Specify furniture and fittings that are produced in ways that minimises the use/support of environmentally damaging resource extraction and processing practices	N	Y	N	1		Partially addressed by EN5.2, EN5.3
3I	Specify services that that minimises the use/support of environmentally damaging resource extraction and processing practices	N	N	N	0	EN1 EN3	
3J	Specify materials and components that minimises the use/support of environmentally damaging resource extraction and processing practices environmental damage.	N	Y	N	1	EN5.3	
3K	Design construction that minimises the use/support of environmentally damaging resource extraction and processing practices	N	Y	N	1		
3L	Design building to operate in ways that minimises the use/support of environmentally damaging resource extraction and processing practices	N	Y	N	1	Particularl y addressed by EC4.5 SO4.2	
3M	Design demolition / refurbishment so as to minimises the use/support of environmentally damaging resource extraction and processing practices	N	Y	N	1		
4C	Location to support minimisation of waste and ease of recycling	N	Y	N	1		
4D	Site to support minimisation of waste and ease of recycling	N	Y	N	1	EN3.3	
4G	Internal space to support minimisation of waste and ease of recycling	N	Y	N	1		
4H	Furniture and fittings to support minimisation of waste and ease of recycling	N	Y	N	1		
4I	Services to maximise to support minimisation of waste and ease of recycling	N	N	N	0		
4J	Materials and components to support minimisation of waste and ease of recycling	N	Y	N	1	EN5.4	
4K	Construction to support waste minimisation and ease of recycling	N	Y	N	1		
4L	Operation to support waste minimisation and ease of recycling	N	Y	N	1	EN3	
4M	Demolition or refurbishment to support waste minimisation and ease of recycling	N	Y	N	1	SO4.2	
5C	Location to support the efficient use of water, capture of rainwater and disposal of wastewater	Y	Y	Y	3		
5D	Site design to support the efficient use of water, capture of rainwater and disposal of wastewater	Y	Y	Y	3	EN1.4 EN1.3 EN1.4	
5E	Size and form to support the efficient use of water, capture of rainwater and disposal of wastewater	Y	Y	Y	3	EN1.1	
5F	Envelope design to support the	Y	Y	Y	3	EN1.1	

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	efficient use of water, capture of rainwater and disposal of wastewater						
5I	Services design to support the efficient use of water and capture of rainwater and disposal of wastewater	Y	N	Y	2	EN1.1 EN1.3.3 EN1.2	
5J	Materials and construction to support efficient use of water and capture of rainwater and disposal of wastewater	Y	N	N	1		
5K	Construction to support efficient use of water and capture of rainwater and disposal of wastewater	Y	N	N	1		
5L	Operation to support the efficient use of water and capture of rainwater and disposal of wastewater	Y	N	Y	2	EN	
5M	Demolition and refurbishment to support efficient use of water and capture of rainwater and disposal of wastewater	Y	N	Y	2		
6C	Location to maximise energy efficiency and use of renewable energy	N	N	Y	1	EN2.1	
6D	Site layout to maximise energy efficiency and use of renewable energy	N	N	Y	1	EN4.2	
6E	Size and form to maximise energy efficiency and use of renewable energy	N	N	Y	1	EN2.2 EN2.3	
6G	Internal space to maximise energy efficiency and use of renewable energy	N	N	Y	1	EN2.2 EN2.3	
6H	Furniture and fittings to maximise energy efficiency and use of renewable energy	N	N	Y	1	EN5.1	
6I	Services to maximise energy efficiency and use of renewable energy	N	N	Y	1	EN2.2-5	
6J	Materials and component to maximise energy efficiency and use of renewable energy	N	N	Y	1	EN5.1	
6K	Construction to maximise energy efficiency and use of renewable energy	N	N	Y	1		
6L	Operation to maximise energy efficiency and use of renewable energy	N	N	Y	1	EN EC SO	
6M	Demolition and refurbishment to maximise energy efficiency and use of renewable energy	N	N	Y	1		
7A	Briefing process should support employment and self employment	Y	Y	Y	3		
7B	Design process should support employment and self employment	Y	Y	Y	3		
7C	Building should be located where is will support employment and self employment	Y	Y	Y	3		
7D	Site layout should support employment and self-employment	Y	Y	Y	3	Partially E4.5	
7E	Building size and form should support employment and self-employment	Y	Y	Y	3		

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7F	Building envelope should support employment and self-employment	Y	Y	Y	3		
7 G	Internal space should support employment and self-employment	Y	Y	Y	3	EC1.4	
7H	Furniture and Fittings provided should support employment and self-employment	Y	Y	Y	3	EC1.3	
7I	Services provided should support employment and self-employment	Y	N	Y	2		
7J	Materials and components should support employment and self-employment	Y	Y	Y	3		
7K	Construction process should support employment	Y	Y	Y	3		
7L	Building operation should support employment	Y	Y	Y	3	PartiallyE C1.4	
7 M	Building refurbishment or demolition should support employment	Y	Y	Y	3		
8A	Briefing process should investigate how activities accommodated in building are as efficient as possible. The briefing process should be efficient and effective.	N	N	Y	1		
8B	The design process should investigate how activities accommodated in building are as efficient as possible. The design process should be efficient and effective.	N	N	Y	1		
8C	Location of the building should support efficiency and effectiveness	N	N	Y	1	SO3	
8D	Site layout should support efficiency and effectiveness	N	N	Y	1		
8E	Building size and shape should support efficiency and effectiveness	N	N	Y	1	EC5.2	
8F	Building envelope should support efficiency and effectiveness	N	N	Y	1		
8 G	Space provided in building should support efficiency and effectiveness	N	N	Y	1	EC2.1	
8H	Furniture and fittings should be provided to support efficiency and effectiveness	N	N	Y	1	EC3.2	
8I	Services should be support efficiency and effectiveness	N	N	Y	1		
8J	Materials and components should support efficiency and effectiveness	N	N	Y	1		
8K	Construction processes should be efficient and effective	N	N	Y	1		
8L	Building operation should support efficiency and effectiveness	N	N	Y	1		
8 M	Demolition or refurbishment should support efficiency and effectiveness	N	N	Y	1		
9A	The briefing process should draw on indigenous processes, technology and knowledge	N	Y	N	1		
9B	The design process should draw on indigenous processes, technology and knowledge	N	Y	N	1		
9H	Specification and design of furniture and fittings should draw	N	Y	N	1		

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	on indigenous processes, technology and knowledge						
9I	Services strategies should draw on indigenous processes, technology and knowledge	N	Y	N	1		
9J	Specification and design of materials and components should draw on indigenous processes, technology and knowledge	N	Y	N	1		
9K	Construction processes should draw on indigenous processes, technology and knowledge	N	Y	N	1		
9L	Building operation should draw on indigenous processes, technology and knowledge	N	Y	N	1		
9M	Building demolition / refurbishment should draw on indigenous processes, technology and knowledge	N	Y	N	1		
10A	Briefing process should include clear building performance accounting systems	Y	N	Y	2		SBAT, as a whole addresses this
10B	Design process should include evaluation and reporting points in terms of sustainable development objectives	Y	N	Y	2		"
10C							
10D	Site layout design should take into account social and environmental accounting	Y	N	Y	2		"
10E	Building form and size should take into account social and environmental accounting	Y	N	Y	2		"
10F	Building envelope should take into account social and environmental accounting	Y	N	Y	2		"
10G	Internal space design should take into account social and environmental accounting	Y	N	Y	2		"
10H	Furniture design and fittings should take into account social and environmental accounting	Y	N	Y	2		"
10I	Services selection and design should take into account social and environmental accounting	Y	N	Y	2		"
10J	Materials and components selection should take into account social and environmental accounting	Y	N	Y	2		"
10K	Construction processes should take into account social and environmental accounting	Y	N	Y	2		"
10L	Operation processes should take into account social and environmental accounting	Y	N	Y	2		"
10M	Demolition or refurbishment should use social and environmental accounting and management plans	Y	N	Y	2		"
11A	Briefing processes to support enabling environment for sustainable development	N	Y	N	1		Partially covered by SBAT process
11	Design processes to support	N	Y	N	1		"

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B	enabling environment for sustainable development						
11 K	Construction processes to support enabling environment for sustainable development	N	Y	N	1		"
11 L	Building operation processes to support enabling environment for sustainable development	N	Y	N	1		"
11 M	Building refurbishment / demolition processes to support enabling environment for sustainable development	N	Y	N	1		"
12 A	Briefing processes designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3		"
12 B	Design processes designed to support the development of a small scale, local and diverse economy	Y	Y	Y	2		"
12 C	Location designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3		"
12 D	Site layout designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3		"
12 E	Building size and form designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3	EC1	
12 F	Building envelope designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3	EC1	
12 G	Furniture and fittings designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3	EC1	
12 H	Internal space designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3	EC1	
12 I	Services designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3		
12 J	Material and component selection designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3	EC1.2	
12 K	Construction designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3	EC1.1	
12 L	Building operation designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3	EC1.4	
12 M	Demolition or refurbishment designed to support the development of a small scale, local and diverse economy	Y	Y	Y	3	EC1.1	
13 A	Briefing processes to establish local needs in terms of access to land, adequate shelter, finance, information, public services, technology and communications	Y	Y	Y	3		SBAT, as a whole addresses this

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13 B	Design process to address local needs in terms of access to land, adequate shelter, finance, information, public services, technology and communications where possible	Y	Y	Y	3		
13 C	Site location to support increased access to facilities	Y	Y	Y	3	SO3, SO4.5	
13 D	Site design to support increased access to facilities	Y	N	Y	2	SO4.5	
13 E	Building size and form to support increased access to facilities	Y	N	Y	2	SO4.5	
13 G	Internal space to support increased access to facilities	Y	N	Y	2	SO4.5	
13 I	Services to support increased access to facilities	Y	N	Y	2	SO4.5	
13 L	Building operation to support increased access to facilities	Y	N	Y	2	SO4.5	
14 A	Briefing process should be used to educate building users about sustainable development and buildings	Y	Y	Y	3		SBAT process, addresses this
14 B	Design process should be used to educate building users and mangers about the building and it's systems	Y	Y	Y	3		SBAT process, addresses this
14 C	Building should be located where educational facilities provided in the building can be used easily	Y	Y	Y	3		
14 D	Site layout should support access to education	Y	Y	Y	3		
14 G	Space should be provided to support education	Y	Y	Y	3	SO5.1	
14 H	Furniture and fittings should be supplied that support education	Y	Y	Y	3	SO5.1	
14 I	Services should be provided to support access to education	Y	Y	Y	3	SO5.1	
14 K	Construction process should provide appropriate education for construction workers	Y	Y	Y	3		
14 L	Operation should support easy access to education	Y	Y	Y	3	SO5.1	
14 M	Demolition or refurbishment of the building should support education	Y	Y	Y	3		
15 A	Briefing process should be inclusive	Y	Y	N	2		
15 B	Design process should be inclusive	Y	Y	N	2		
15 C	Building should be located where everyone can easily access it	Y	N	N	1	SO2.1	
15 D	Building site layout should be inclusive	Y	N	N	1	SO2.2	
15 F	Building envelope should be inclusive	Y	N	N	1		
15 G	Internal space provided should be able to be used easily by everyone	Y	N	N	1	SO2.2 SO2.3	
15 H	Furniture and fittings should be able to be used easily by everyone	Y	N	N	1	SO2.4	
15 I	Services provided should be able to be easily used by everyone	Y	N	N	1		
15 J	Materials and components should ensure that the building can be easily used by everyone	Y	N	N	1		
15	Construction process should be as	Y	y	N	2		

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K	inclusive as possible						
	The building should be operated to ensure that the building can be used by everyone easily and safely	y	N	N	1		
15 M	Demolition or refurbishment of the building should be inclusive	Y	N	N	1		
16 C	Building should be located in an environment that is conducive to health in its users	Y	Y	Y	3		
16 D	Site layout should be conducive to health in building users	Y	Y	Y	3		
16 E	Building size and form should be conducive to human health	Y	Y	Y	3		
16 H	Furniture and Fittings used in the building should be conducive to human health	Y	Y	Y	3	SO5.4	
16 I	Services provided in the building should be conducive to human health	Y	Y	Y	3		
16 J	Materials and components should be conducive to human health	Y	Y	Y	3	SO5.4	
16 K	Construction processes should be conducive to health	Y	Y	Y	3		
16 L	The operation of the building should be conducive to human health	Y	Y	Y	3		
16 M	Demolition or refurbishment of the building should be conducive to human health	Y	Y	N	2		
17 A	Briefing process should support participation	N	Y	N	1		SBAT process, addresses this
17 B	Design development should support participation	N	Y	N	1		SBAT process, addresses this
17 C	Building location should support participation	N	Y	N	1	SO4.5	
17 D	Site should support participation	N	Y	N	1		
17 E	Size and building form should support participation	N	Y	N	1		
17 F	Building envelope should support participation	N	Y	N	1	SO1.2	
17 G	Internal space should support participation	N	Y	N	1	SO4.3,4,5	
17 H	Furniture and fittings should support participation	N	Y	N	1		
17 I	Services should be support participation and control	N	Y	N	1	SO4.3,4,5	
17 K	Construction should support participation	N	Y	N	1		
17 L	Operation should support participation	N	Y	N	1		
17 M	Refurbishment or Demolitions should support participation	N	Y	N	1		