

Life Cycle Map – Equipment and Materials

Raw Material	Production/Installation/ Manufacture/ Service	Sales and Distribution	Use	End of Life
<ul style="list-style-type: none"> • Land degradation & habitat destruction • Resource depletion 	<ul style="list-style-type: none"> • Production of equipment & Materials and energy use; • GHG emission from factory during manufacture; • Use of equipment & materials; 	<ul style="list-style-type: none"> • Energy use in transport and storage; • GHG from transport; • Use of packaging; • 	<ul style="list-style-type: none"> • Fuel – energy use while carrying out operations and using various equipment and Materials; • Transport to and from site; • Storage of equipment; 	<ul style="list-style-type: none"> • Re-sale to other operators of equipment & materials; • Scrap / recycle /reuse equipment & materials.

X – not able to control

X – able to control

Mitigating Strategies

Impact	Strategy	Further work needed
Production of equipment & materials and energy use	Purchase of equipment & materials from sustainably sourced materials	Criteria to be developed and implemented within the purchasing procedure
Fuel – energy use while operating equipment	Purchase plant, equipment & materials with high energy ratings as they consume less fuel	
Transport to and from site;	Purchase locally Plan transportation of a number of equipment & materials to site at the same time	
Routine Maintenance	All plant and equipment to be serviced / maintained in accordance with manufacturers specifications	
Use of equipment and materials during operation	Select equipment and materials that have a lower environmental impact	Develop a list of equipment and materials with lower environmental impact
Storage of equipment and materials;	Equipment and materials stored under cover where possible to avoid weather damage.	
Re-sale to other operators	Select equipment and materials with long life. Only replace when necessary.	
Scrap yard/recycle	Send equipment and materials to recycle yard or re-use.	