

# Eco Screening Criteria



Global Green Chemical Public Company Limited

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## Purpose/Objective

The criteria are to assess the development of new or improved products or processes with the following objectives:

- To enhance the understanding of “Eco” qualifications. The criteria can be used to evaluate the process or product qualifications that minimize the impacts on the environment.
- To concern the product design in order to be an environmentally friendly product.
- To minimize the impacts on the environment along the product’s life cycle.

## Scope

The Criteria are used for the evaluation of new or improved products or processes whether they are in line with “Eco” or not.

# 14 Criteria for assessment of product/process qualifications

No.	Eco Qualification	Product Qualification
1	Compostable	<ul style="list-style-type: none"> <li>A product or associated component allows it to biodegrade, generating a relatively homogeneous and humus-like substance.</li> <li>No negative effects on the environment such as but not limited to soil, air, and water contamination at any point during decomposition or subsequent use.</li> </ul>
2	Degradable	<ul style="list-style-type: none"> <li>A product or packaging allows it to break down to a specific extent within a given time.</li> <li>A product or packaging must break to all types of degradation such as biodegradation and photodegradation.</li> <li>No negative effects on the environment such as soil and air contamination at any point during degradation.</li> </ul>
3	Extended life product	<ul style="list-style-type: none"> <li>A product is designed to provide prolonged use, based on either improved durability or an upgraded feature. As a results, it reduces use or waste.</li> </ul>
4	Recovered energy (*Production phase)	<ul style="list-style-type: none"> <li>A product has been made using energy recovered from materials or energy that would have been disposed of as waste</li> </ul>
5	Recyclable	<ul style="list-style-type: none"> <li>A product, packaging or associated component can be diverted from the waste stream through available processes. It can be collected, processed, and returned to use in the form of raw materials or products.</li> </ul>
6	Recycle content	<ul style="list-style-type: none"> <li>A product or packaging has proportion, by mass, of recycled material.</li> </ul>
7	Reduced energy and water consumption (After Production Phase)	<ul style="list-style-type: none"> <li>Reduction in the consumption of water and energy amount associated with the use of a product performing. The function was conceived when compared with the energy used by other products performing an equivalent function.</li> </ul>

# 14 Criteria for assessment of product/process qualifications

No.	Eco Qualification	Product Qualification
8	Reduced resource use (Production Phase)*	<ul style="list-style-type: none"> <li>Reduction in the amount of material, energy or water used to produce a product or packaging or specified associated component.</li> </ul>
9	Reusable	<ul style="list-style-type: none"> <li>A product or packaging has been designed to accomplish within its life cycle a certain number of use for the same purpose for which it was conceived.</li> </ul>
10	Refillable	<ul style="list-style-type: none"> <li>A product or packaging can be filled with the same or similar product more than once, in its original form. In addition, product or packaging should be without additional processing except for specified requirements such as cleaning or washing</li> </ul>
11	Water reduction	<ul style="list-style-type: none"> <li>Reduction in the quantity (mass) of material entering the waste stream as a result of a change in the product, process or packaging.</li> </ul>
12	Renewable material	<ul style="list-style-type: none"> <li>Material is composed of biomass from a living source and can be continually replenished.</li> </ul>
13	Renewable energy (Production phase)	<ul style="list-style-type: none"> <li>Energy derived from sources that are non-exhaustible or capable of continuous replenishment. Renewable energy sources include, but are not limited to, sunlight and wind energy. They also include biomass and geothermal sources.</li> </ul>
14	Greenhouse Gas emission (Along life cycle)	<ul style="list-style-type: none"> <li>Carbon footprint is a common term used in the provision of information relating to greenhouse gas (GHG) emissions of both processes and products. Moreover, This subclause covers claims related to the “carbon footprint” of products and also claims of “carbon neutral”.</li> </ul>

**\*Remark:** Production Phase is cradle to gate which is an assessment of a partial product life cycle from resource extraction (cradle) to the factory gate (i.e., before it is transported to the consumer). The use phase and disposal phase of the product is omitted in this case.

**Thank you**