Ecodesign Assessment (Product)

PHASE 1 - DESIGN

Are the main functions of the product well defined and provided?  
Is the product easy to maintain?  
Is it possible to access parts or modules for repair, refurbishment and reuse in a non-destructable and reversible way?  
Are parts of the product built in a standardized way (for compatibility, upgrade, repair, ...)?  
Is the product designed robust enough to withstand the intended use for the intended use time (material choice, construction, wear and tear, ...)?  
Does the design promote positive behaviour change or product attachment?

PHASE 2 - RESOURCES

Is the product built lightweight?  
Are recycled or renewable materials used instead of virgin materials?  
Is the product built with recyclable materials?  
Are materials with big environmental burden avoided? (aluminium, concrete, precious metals, ...associated with climate change)  
Are toxic or hazardous materials avoided?  
Is it composed of few different materials (e.g. just one type of plastic)?

Score \( \frac{\Sigma \text{sum of answers} \times x0 \times x1 \times x2 \times x3}{6 - \text{N/A}} = \text{Score} \)
Ecodesign Assessment (Product)

PHASE 3 - MANUFACTURING

Is the production optimized energy-efficiently?  
Are auxiliaries and operational material usage optimized or even avoided (water, air, oil,...)?  
Is waste avoided during manufacturing?  
Are components assembled in removable ways (mono-material dismantling)?  
Are waste and by-products (also waste water or lost heat) used as a resource for other nearby companies (industrial symbiosis)?

PHASE 4 - DISTRIBUTION

Are long distances across logistics (between material extraction, within the supply chain and along distribution) avoided?  
Are logistics organized climate neutrally?  
Is a reverse logistics for end of life in place?  
Does the packaging add value beyond product protection and marketing?  
Is packaging material eco-friendly, reduced or even avoided?  
Can the packing be reused (reverse logistics) or recycled?

Score \( \text{\( \sum \)} \text{ sum of answers } \times 0 \times 1 \times 2 \times 3 \) = \( \text{\( \sum \)} \text{ sum x Points } \) \( \div (5 - \text{\( \sum \)} \text{ sum x Points }) \) = \( \text{\( \sum \)} \text{ sum x Points } \) \( \div (6 - \text{\( \sum \)} \text{ sum x Points }) \) = \( \text{\( \sum \)} \text{ sum x Points } \)
**Ecodesign Assessment (Product)**

**PHASE 5 - USE**

<table>
<thead>
<tr>
<th>Question</th>
<th>Not at all</th>
<th>Unlikely</th>
<th>Likely</th>
<th>Definitely</th>
<th>Unknown</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the product trying to reduce the energy consumption?</td>
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<td>Can rapid wear and tear be avoided or can worn parts be replaced?</td>
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<td>Does the product have a switch off button / energy saving mode?</td>
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<tr>
<td>Is the product trying to avoid or reduce the amount of consumables?</td>
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<td>Does the product allow more eco-friendly (e.g. 3rd party) consumables?</td>
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<td>Is a minimum of waste generated during the use phase?</td>
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\[ \sum \text{sum of answers} \times 0 + 1 + 2 + 3 = \text{Score} \div (6-\text{N/A}) = \]

**PHASE 6 - AFTER USE**

<table>
<thead>
<tr>
<th>Question</th>
<th>Not at all</th>
<th>Unlikely</th>
<th>Likely</th>
<th>Definitely</th>
<th>Unknown</th>
<th>N/A</th>
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<tbody>
<tr>
<td>Can the product be re-used for a different purpose?</td>
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<td>Does the product provide information how to dispose of (for re-use, recycling)?</td>
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<td>Are recycling processes established?</td>
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<td>Can toxic materials be disposed of separately?</td>
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<td>Is a safe disposal possible?</td>
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</tbody>
</table>

\[ \sum \text{sum of answers} \times 0 + 1 + 2 + 3 = \text{Score} \div (5-\text{N/A}) = \]
Ecodesign Assessment (Product)

**BUSINESS MODEL**

Are the product (and services) co-created with customers, suppliers and the whole (circular) business network?

Can the benchmark be used by several users (sharing, renting, pay per service)?

Is a secondary market (aftermarket) part of the business model?

Are environmental and social aspects considered in the cost-benefit analysis (beside financial aspects)?

Σ sum of answers
multiply by
x0  x1  x2  x3
is Σ sum x Points  +  +  +  =
Score ÷ (4- ) =

**FINAL SCORE**

Mark the scores of each phase in the chart and connect the dots. What is doing good, where is room for improvement?