

# GREEN PHILIPPINES

Greening the Philippine Industries with the **ECOPROFIT** Approach



A project funded by  
The European Union's Asia-Pro Eco Programme

## Ecological Purchasing



## Red line through the workshop



➤ **What is ecological purchasing?**



➤ **Ecological evaluation criteria**

➤ **Information sources/evaluation**



➤ **Organisation of purchasing**

➤ **Measures**

## Why ecological purchasing?

### ➤ **Throw away products**

**93 % of the resources are not turned into products**

**80 % of the products are thrown away after being once used**

**99 % of the material turns into waste after 6 weeks**

### ➤ **Acceleration**

**every two years 50 % of the range of products is renewed. A definite shortening of the life cycle!!**

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## Why ecological purchasing?



- **Purchasing starts at the source!!**
- **Ecological Purchasing fosters quality**
- **Purchasing helps to save costs**

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```
graph TD; A[What is environmentally friendly?] --> B[Relatively environmentally friendly]; A --> C[Absolutely environmentally friendly];
```



**What is environmentally friendly?**

**Relatively  
environmentally friendly**

**Absolutely  
environmentally friendly**

## Evaluation models for environmental friendliness

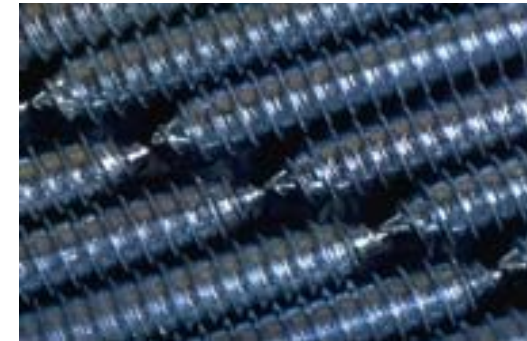
- Life cycle of a product
- Environmental qualities
- Eco-balances
- Ecological footprint
- MIPS, etc.



	Energy	Water	Acid	CO2	Other	Total
Energy	0.21	0.01	0.01	0.01	0.01	0.25
Water	0.01	0.01	0.01	0.01	0.01	0.05
Acid	0.01	0.01	0.01	0.01	0.01	0.05
CO2	0.01	0.01	0.01	0.01	0.01	0.05
Other	0.01	0.01	0.01	0.01	0.01	0.05
<b>Total</b>	<b>0.25</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.41</b>
<b>Total</b>						<b>1.60</b>

## Criteria for environmental friendliness

- **Material/technology:** choice of material, use of recycling material
- **Production:** energy consumption, toxicities
- **Distribution:** optimisation of packaging material, etc
- **Phase of use:** energy consumption, emissions
- **time of use:** corrosion protection, up-grading, long-life, etc.



*source: Ecodesign Infoknoten/ ECODESIGN Checkliste*

## Criteria for environmental friendliness

- **Repair:** dismountability, easy access
- **Maintenance:** wearing parts are changeable, easy to clean
- **Recyclability:** recyclable, multi way, etc.
- **need-oriented:** multifunctional, new forms of use



*Quelle: Ecodesign Infoknoten*




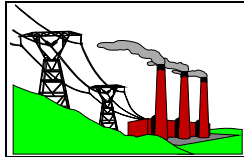
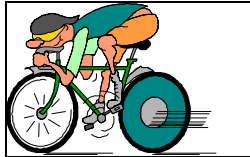

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## Ecological evaluation criteria

Produkt-Lebensweg	Rohstoffe Hilfsstoffe 	Herstellung 	Nutzung 	Entsorgung 
<b>Stoffe</b>	<ul style="list-style-type: none"> <li>• fossil,</li> <li>• nachwachsend</li> <li>• knapp</li> <li>• aus Region</li> </ul>	<ul style="list-style-type: none"> <li>• Betriebsmittel- u. Materialausnutzung</li> <li>• Wasserverbrauch...</li> <li>• etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Reparaturfähigkeit</li> <li>• Langlebigkeit</li> <li>• Verpackungssystem</li> <li>• etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Recyclingfähigkeit</li> <li>• Rückgabemöglichkeit</li> <li>• etc.</li> </ul>
<b>Emissionen</b> in Wasser, Luft, Abfall	<ul style="list-style-type: none"> <li>• Lösemittel,</li> <li>• Schwermetalle- Stahl</li> <li>• SO<sub>2</sub>, NO<sub>x</sub>, ...</li> <li>• etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Staub, Öldämpfe,.....</li> <li>• FCKW - Treibgase</li> <li>• Lärm</li> <li>• etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Formaldehyd aus Spanplatten</li> <li>• etc.</li> </ul>	<ul style="list-style-type: none"> <li>• giftige Inhaltsstoffe umwelt-, human)</li> <li>• Bildung giftiger Stoffe durch mikro- biellen Abbau</li> <li>• etc.</li> </ul>
<b>Energie</b>	<ul style="list-style-type: none"> <li>• Art der Energiegewinnung: (Wasserkraft, Erd- öl, Erdgas, Solar- energie- Kohle- brennstoffe,...)</li> <li>• Energiebedarf</li> <li>• etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Art der Energiegewinnung:</li> <li>• Energiebedarf</li> <li>• etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Art der Energiegewinnung:</li> <li>• Energiebedarf</li> <li>• etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Art der Energiegewinnung:</li> <li>• Energiebedarf</li> <li>• etc.</li> </ul>

## Ecobalances

- **Definition of target/balancing frame**
- **Inventory analysis: collection of data and calculation**
- **Impact assessment: attribution of inventory analyses to the envn. impacts (rating and ranking)**
- **Evaluation: summary of results, conclusions and recommendation**



## CE - sign



- **Technical documentation**
- **Basic requirements**
- **Solutions for dangerous moments**
- **Certificates, reports, QS-analyses**
- **Analyses, tests**
- **Working instructions**



## Management systems

- **Quality (ISO 9000, 9001:2000...)**
- **Environment (ISO 14001, BS 7750,...)**
- **Safety (BS 8800,...)**
- **TQM**
- **Integrated QMS (draft: ISO 19011)**

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## Labels



### Product

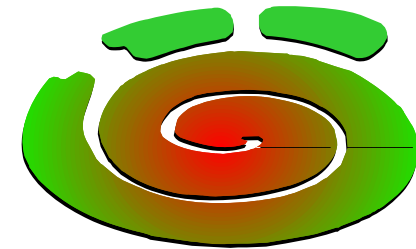


### Site



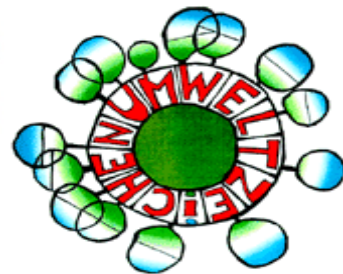
- **Austrian environmental label**
- **Blue angel (Germany)**
- **Envn. Label of EU (flower)**
- **CE-sign**
- **GISBAU information system**

- **Responsible Care**
- **EMAS / Eco-Audit**
- **ISO 14001**
- **BS 7750**
- **ÖKOPROFIT**
- **QMS**



## Instruments for evaluation of products and suppliers

- **Envn. label**
- **Product awards**
- **CE - certificates**
- **models of how to evaluate suppliers**
- **Quality certificates**
- **experience**
- **Self-auditing of suppliers**
- **site lables**
- **suppliers' conformity declaration**
- **Auditing through the buyer**
- **references of the producer**
- **cooperations between producer and user**



## Berglandmilch Graz Savings from ecological purchasing

- **Use of light weight plastic cups for the yoghurt production**

- 43 t/a packaging

material

- **Change of a plastic foil to a grid foil**

-2/3 packaging

material

+better cooling effect!!

- **Filling of milk in rolling containers :**

-30% shrink foil (14.500kg/a)



*Das Beste aus den Bergen*



## Neckermann mail order house savings.....

- **Bigger packing bags instead of packing cardboards**
  - 20 t packaging weight
- **Transport reduction due to better use of the cargo space of lorries:**
  - 89.000 km/a
- **Internal multi-used cardboards:**
  - 47 t cardboards
- **Thinner middle layer for packaging cardboards**
  - 16,5 t packaging weight





## Wo & Wo blinds savings

- **Change to the use of isocyanat free glue:**  
- 2000 pieces
- **New route planning, new low emission lorries:**  
- 4,5% saving of fuel
- **Cardboard multi-way system with suppliers :**  
- 13t/a cardboards



## Ecological purchasing

- **Motivate, Integrate**
- **Consider profitability**
- **Quality problems/new processes/trainings**
- **contact with suppliers**
- **avoid insecurities: eco-labels!!**



## How do you succeed in implementing e.p. in your company?

- **Enlist the products**
- **Product requirements**
- **Environmental characteristics**
- **Evaluation of products and suppliers**
- **Organisation of the purchasing:  
centralized/decentralized**
- **Optimising the purchasing**
- **Control of the results: signing the products**

