RECTIFICADORES GUASCH, S.A.
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PRODUCT LIFE CYCLE

OBJECTIVES

Determine the environmental and economic impacts generated by a product throughout its useful life, from obtaining raw materials to their use, establishing premises to minimize them, both from the time of design and purchases, manufacturing and the treatment of generated waste.

EXECUTION

Due to the characteristics of our products, temporary forecasting is not feasible, since they depend on the conditions and forms of final application, which are beyond our control, so that the objectives are achieved by prioritizing, as far as possible, the use of standardized materials and with the improvement in the efficiency of our internal processes

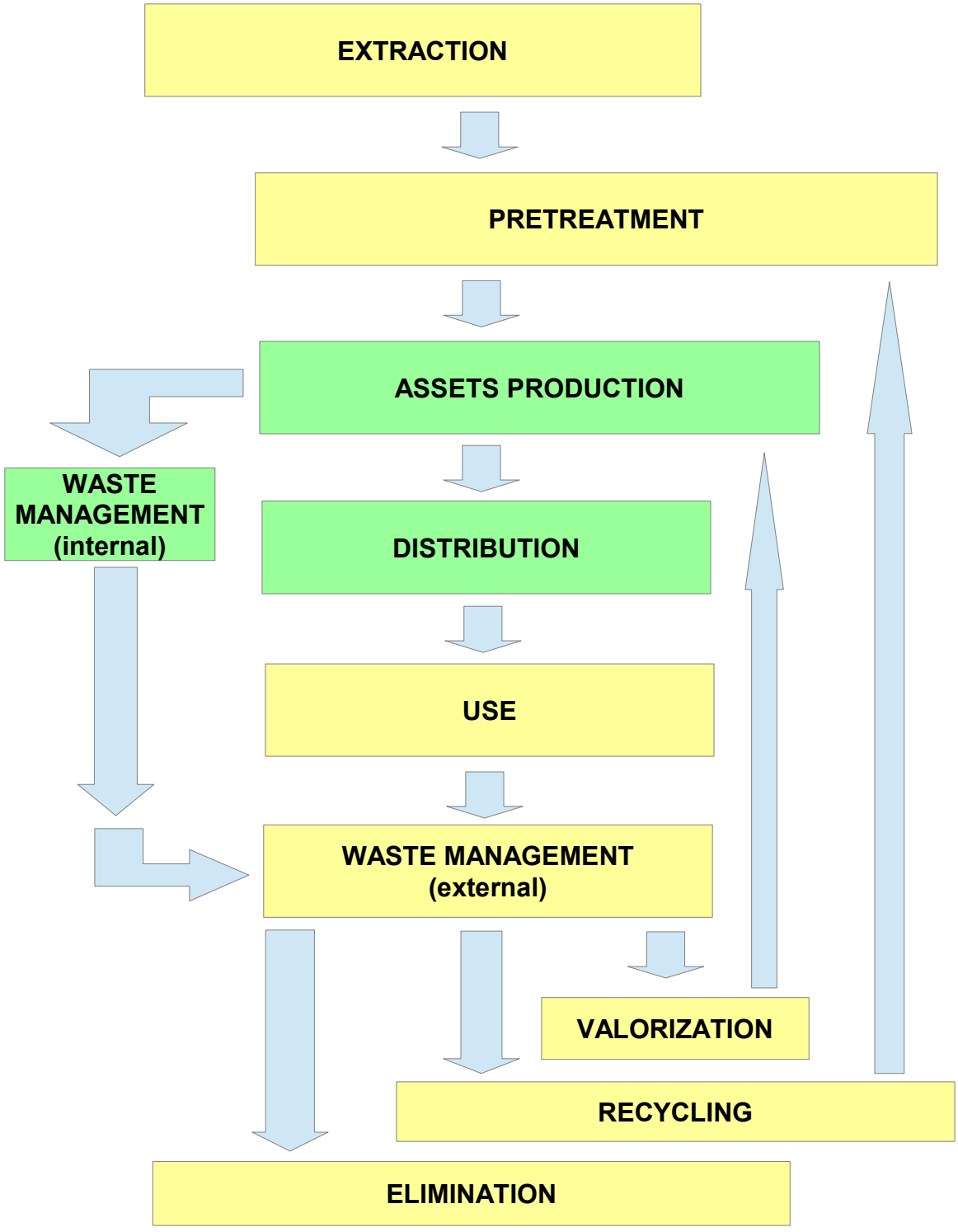
To achieve the objectives RECTIFICADORES GUASCH, S, A., applies design philosophies that seek the optimal compromise between cost and reliability, and for this a premise of the design is the minimization of processing costs and waste generated in the production process , evaluating in the revision of each project the capacity of its realization with existing means, or analyzing the constraints in case of not having them.

For this, it constantly analyzes the improvement of the processes in terms of reducing time, waste and energy consumption and applying specific improvement plans when deemed necessary.

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GENERAL SCHEME OF THE LIFE CYCLE

In yellow the external phases and in green the internal ones.



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Extraction

Exploitation of natural resources that must be carried out with the smallest possible environmental impact.

Pretreatement

Transformation of the extracted product to convert it into a raw material usable by the industry. Various pretreatments in series of different types can be linked.

Assets production

Transformation of raw materials into usable products (in many cases they will also form part of other products), through multiple techniques of industrial transformation.

Distribution

Shipment and delivery of goods produced to their recipients, which in some cases are industries that use them to generate goods of increasing complexity.

Use

It covers the entire period in which the product performs the function for which it was manufactured.

Waste management

The above graph refers to the monitoring and control of the product when it ceases to be functional, whether due to aging, obsolescence, breakdown or any other cause, but it also applies to intermediate operations, whether due to material losses, consumable expenses , energy, etc.

The management aims to minimize the final waste and store it in a way that is not harmful to the environment (deposition) or take advantage of it for other uses through various treatments (recycling).

Valorization: Use of the resources contained in the waste in a way that respects the environment, among others, the use as combustible for the generation of energy.

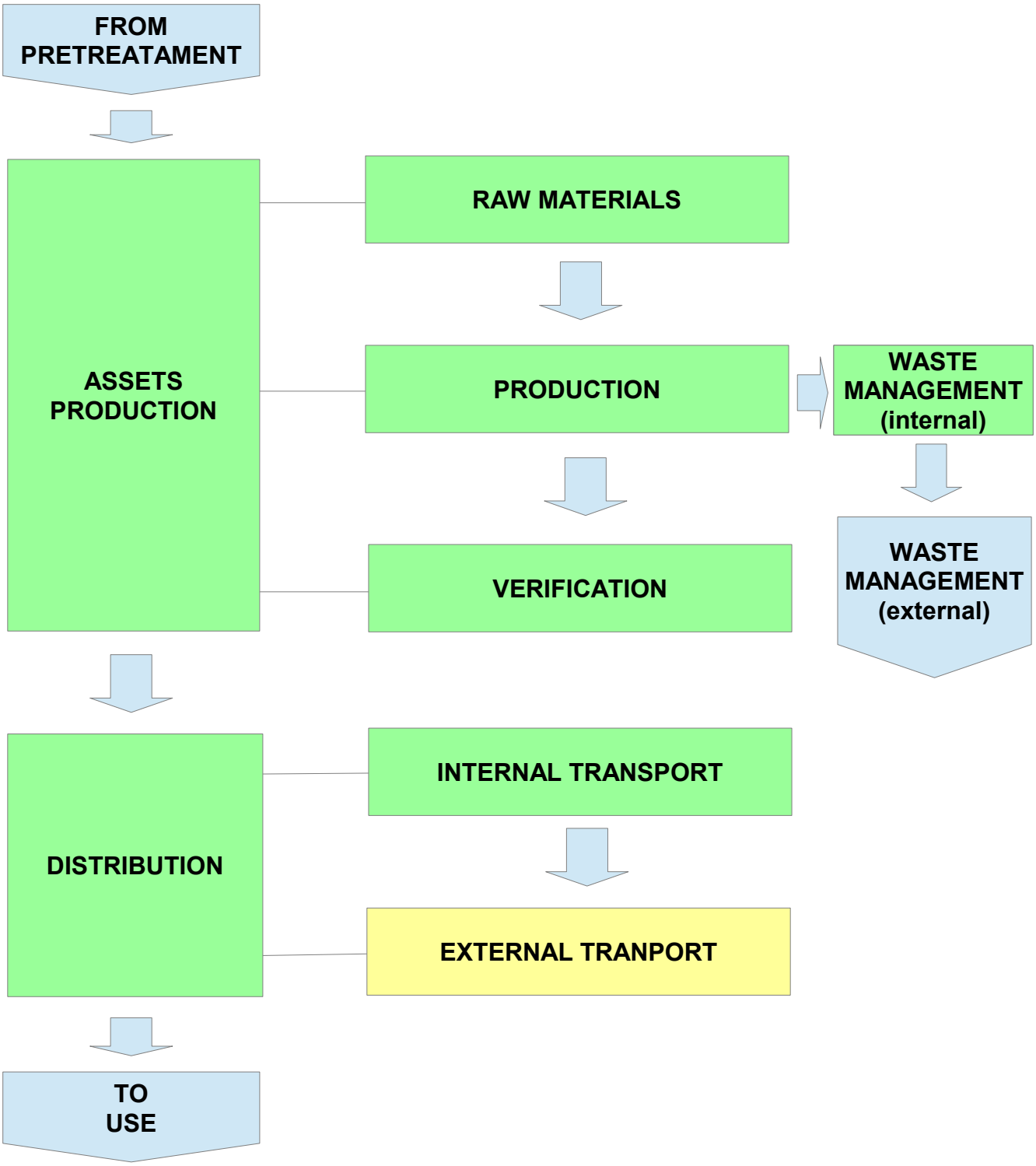
Elimination: It is the final storage of unusable waste in a controlled and environmentally friendly way.

Recycling: Use by transforming waste into a production process to obtain new products.

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DETAIL OF INTERNAL PHASES OF THE LIFE CYCLE IN RECTIFICADORES GUASCH, S.A.

In yellow the external phases and in green the internal ones



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Raw materials

RECTIFICADORES GUASCH, S.A., acquires the raw materials of approved suppliers with a long history and controlled reliability through the process of control in reception and the evaluation of suppliers.

From the design phase (R+D+i), environmental criteria are applied for the choice of raw materials used in the product.

Production

Sustainability criteria are applied to fungible products used in production, such as oils and drill lubricant, establishing guidelines for their maximum use, optimizing energy use and reducing the CO_2 footprint. Likewise, philosophies of minimum waste generation and exploitation and/or recovery of the remaining material are applied, separating it for later recovery.

R+D+i also proposes improvements in the production process and technological investments aimed at energy efficiency and the reduction of hazardous or non-recoverable waste

Waste management

The waste, already minimized with the production management, is managed according to the laws in force, always through authorized managers, avoiding their negative impact on the environment.

Verification

R+D+i defines the processes of verification of the product primarily through non-invasive routes and with a reasonable use of energy, minimizing consumption and the generation of CO_2 equivalent.

Internal transport

For internal transport of occasional type, there is a transport van maintained in optimal conditions thanks to the maintenance management and control integrated in our quality system.

External transport

External transport is carried out through external companies previously selected and approved.