



**Find out how your business can benefit from our expertise.**

PUM Netherlands senior experts offers knowledge and expertise from 50 sectors of the economy. Our experts have many years of professional experience in their field and share their knowledge on a voluntary base.



HEALTH & ENVIRONMENT

## Environmental Matters & Corporate Social Responsibility

Our environment constitutes the conditions in which we live, work and (re)create. Therefore, it is of the utmost importance to keep it in a healthy, unspoiled condition, not only now but also in the future for our descendants. The environment is the touchstone for the sustainability of our actions.

In all our operations we have to consider whether harmful side-effects can be avoided. Therefore, Environmental Matters are crosscutting most of the other PUM sectors, often concerning Labour Conditions, but also to prevent from harmful effects in the wider surroundings (like pollution).

It has been proven that companies that take care of environmental concerns and Corporate Social Responsibility are more profitable on the long run and will survive over the years. Operating a business with a minimum of waste, and in harmony with the environment is also the most cost-effective. Besides, consumers worldwide are demanding products and services that are produced and consumed in a sustainable way.

Experts of the Sector Environmental Matters are generalists that understand the principles of commercial business, but have a special eye (and skill) for environmental aspects, ecological systems and so called "Corporate Social Responsibility".

Education and Vocational Training are an effective way of transferring knowledge and experience in Environmental Matters. Therefore, in many cases Environmental Experts are invited to Workshops and Seminars organised in co-operation with so-called the "enabling parties", like branch organisations, chambers of commerce, educational institutes and governmental organisations.

### AREAS OF EXPERTISE

- CLEAN TECHNOLOGY IN INDUSTRY AND AGRICULTURE
- CIRCULAR ECONOMY (RE-USE OF MATERIAL).
- (HEALTHY) LABOUR CONDITIONS.
- ECOLOGY AND BIODIVERSITY.
- ENVIRONMENTAL ANALYSIS AND MANAGEMENT.
- MARINE & COASTAL MANAGEMENT.
- NATURE CONSERVATION.
- POLLUTION ABATEMENT (SOIL, WATER AND AIR).
- CORPORATE SOCIAL RESPONSIBILITY (NOT ONLY TECHNOLOGICAL, BUT ALSO SOCIAL FACTORS).

## CUSTOMER EXAMPLES



### RECYCLED BANANA BAGS

A company in Colombia that produces plastic hoses considered to use plastic bags that protect banana fruit during the growth as raw material. The PUM expert was able to advise positive on this recycling initiative and was also able to give practical advice how to improve their manufacturing process and equipment.



### REDUCTION OF AIR POLLUTION

Drums for drying green coffee beans often are heated by the use of the skins that are removed from dry beans. Often the oven stack produces dark smoke, that pollutes the environment. Coffee co-operations in Central America wanted to reduce this burden to the environment. A PUM expert analysed the combustion process and proposed a stepwise approach in which first the air supply was adjusted in balance with the fuel amount and the stack was heightened. For the next step filtering of the flue gas was proposed, making use of a bag filter or water filter.

### ECO-BUSINESS FOR GREEN KEY COFFEE

Coffee farmers asked for advice on how to obtain a Green Key endorsement label as an added value measure for their coffee experts. Our expert guided them through the steps required for ISO certification and further assisted them in the effective use of marketing tools.



### ECO LODGES

A hotel chain asked PUM for advice on how to transform their business into eco resorts and on how to incorporate sustainability concepts into the landscaping. PUM assisted in writing proposals for ecology marketing and for transition into "green" and sustainable resort management protocols. This included cost savings on energy via waste reduction and comprehensive recycling.

### IMPROVED LABOUR CONDITIONS

A bakery in Sierra Leone used a diesel driven dough kneader. Not only were the exhaust gasses of the engine blown into the bakery, making breathing difficult, also the rollers of the kneader were unprotected, risking the operator's hands being pulled into the kneader causing severe injury. First the PUM expert proposed to extend the exhaust pipe to the outside of the building. In a later phase the entire kneader was replaced by a modern, electrical dough kneader, protected against erroneous use. This electrical kneader was operated from electricity derived from a solar system.

### MANGROVE CONSERVATION

The mangrove forests on the ocean coast of an island were slowly diminishing due to changes in the meanders of oceanfront. PUM was asked for guidelines on how to develop a realistic plan for the long-term protection of the area. PUM experts advised on how to strengthen variation within the mangrove forests to create a natural protection against sea floods. Also, a local university became involved for the longer-term strategy. The expert created an "Environmental Management System" (EMS) and a certification scheme for small and medium size enterprises.

HOW CAN  
WE HELP  
SHAPE YOUR  
BUSINESS?

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