

## Green Balance: Committed to safeguarding the future.



**Keller Lufttechnik participates in the industry commitment to save the environment and natural resources.**

As the developer and manufacturer of high quality air pollution control systems for industry and commerce, issues with respect to environmental engineering have always been part of the solutions which the company has been offering to its customers for many decades.

Basically, the focus is on optimal particle filtration to create clean working conditions and processes. However, the challenges regarding the careful handling of Nature's resources are gaining more and more attention.

**The earth's bio capacity is limited – namely, its ecological footprint.**

This footprint measures the consumption of Nature's resources. Various interactions and environmental data are summarized in a manageable value (ecological footprint) to ensure the monitoring of the earth's bio capacity.

The central effort should be in sustaining individual human beings, a single nation and finally, mankind, with regard to space and CO2 levels (NOTE: are you referring to Oxygen or Carbon Dioxide?) requirements which are necessary for survival. The national differences on this issue are enormous. As an example, the average living standard in Germany requires the the renewal capacity of 2.4 Earths. This energy consumption cannot be offset by "poorer" countries. The earth's bio capacity was already exceeded in the mid-80'ies (WWF 2008:4). This factor now lies at approx. 30 %.

**Industry has been provided with guidelines for saving the environment.**

The effects of unrestrained energy and raw material consumption as well as Nature's reaction to the resulting changes are increasing. Examples and evidence are widely available. Additionally, the intensive consumption of energy and raw materials worsened with the increased prosperity of newly industrialized regions worldwide.

The issues raised by this topic are no longer a matter of personal responsibility, (refer to the policy) but also the responsibility of the economy overall.

Companies and entrepreneurs are increasingly taking on the challenge to contribute towards an environmentally-friendly and humanitarian future.

Keller Lufttechnik of course is positioned within the global industrial structure. Energy is created from other sources and separation systems will most probably require power from the available energy supply as well in the upcoming decades. However, it is our obligation to reduce this energy consumption requirement.

In the near future, economics and ecology can no longer remain separate – this is the only solution for safeguarding the future. Keller Lufttechnik's board of management is also committed to this initiative.

**Green Balance – Name and motto for a new strategy.**

How can the process of change be initiated and directed towards "green" technology? A declaration of intent is insufficient – because in the end, every individual in a company is involved in its realization, either with the design and control of a drive with respect to energy efficiency or with designs targeting the lowest possible consumption of material.

The acquisition of materials or consumables, their production conditions and transport routes are becoming increasingly important. End customers in the manufacturing chain selling their products to customers have to ensure that their products are evaluated in a positive manner according to the criteria of the ecologic footprint for competitive reasons.

Companies in the present day are already considering the advancement of corresponding research methods and setting new criteria.

The automotive industry, for example, must deal with the question of a deployment of resources to maintain the air quality in a painting facility. As a leading manufacturer, Keller Lufttechnik is prepared for such requirements. Green Balance is the effective tool.

Green Balance establishes goals for achieving a balance between the needs of industry and the best means of achieving these environmental efficiency goals.

Energy efficiency, production quality, separation efficiency, sustainability, standards and guidelines are the essential criteria which must be considered or be continuously improved. Guidelines for balancing the economy and ecology apply to Keller products as well as to the company as a whole.

Since Keller has already instituted appropriate products and measures, the new label can be appropriately applied such as on systems for the new RECLAIM dry separation during wet painting processes.

**With GREEN BALANCE Keller Lufttechnik GmbH + Co. KG is committed to reliable, far-sighted treatment of all resources – bringing into line technological progress, operational issues and social targets in order to protect the environment.**



[www.keller-lufttechnik.de/greenbalance](http://www.keller-lufttechnik.de/greenbalance)

**Energy efficiency**

Special measures ensure the lowest possible energy demand with Keller process and system technologies. State of the art drive technologies with automated demand control avoiding peak loads as well as technologically optimized filters in terms of energy requirements, brief dirty and clean air passages, heat consumption and functional optimization are all incorporated. > pages 6, 10, 23

**Production quality**

Problem-free and efficient processes reduce the use of resources to a minimum. This technical and functional aspect is completed with the training of personnel involved. > page 30

**Separation efficiency**

The separation of air from air pollutants is the main focus of Keller process technologies. The wide range ensures specific solutions with the highest possible efficiency – according to the corresponding technological level. > page 12

**Sustainability**

The main goal is maintaining the quality of life for ensuing generations. Sustainability means the smart use of resources as well as the avoidance of polluting residues. The recycling of materials and auxiliaries is also involved. > page 6

**Standards and directives**

Standards and directives for pollution limit values in the air already exist for the operation of separation systems. These values are reference values for Keller which we must undertake as a commitment. Besides protecting humanity, these directives also mandate the protection of our ecological systems. > page 14

The articles on the specified pages show what this means exactly. >