

Ten Principles SuperVerde™

Principle 1. **Production non-edible renewable resources**

The feedstock we produce and sell for the production of renewables will be non-edible crops and therefore have no influence on the (inter)national food prices.

1. We only use or sell crops that are not produced for alimentation of humans for the production of renewables.
Examples are Mamona (Castor bean), Pinhão Manso (Jatropha curcas)
2. By-products of crops used for alimentation without having a significant impact on the yield of food per hectare may also be considered as feedstock for renewables.

Principle 2. **Managing CO₂ and other emissions in supply chain**

During the various stages of our operations from land preparation up to the consumption of our final product we have positive and negative impact on global warming. We aim to contribute to the reduction of global warming.

1. Green agriculture. We apply for CDM certification of our agro-operations
Our agro-operations have a negative CO₂ balance. The calculation will be done in accordance with the requirements of UNFCCC
2. Green fleet. We use biodiesel for our own fleet (tractors, cars, trucks)
3. Green energy. We manage and systematically reduce our grey energy consumption
When selecting production areas renewable energy supply will be part of the feasibility study

Principle 3. **Minimizing use of land by optimizing agro-production**

We aim to use as little land possible for our production. We manage our soil, we invest in high efficient crops and we use irrigation to optimize our production yield per hectare.

1. Our agro-production will be irrigated achieving two to three times the production yields of non-irrigated land.
2. We work closely together with professional institutes and universities in the development of state of the art crops.
3. We invest in nurseries to research and develop new crops.
4. We continuously test our soils. We use ecological soil improvement and exchange crops to keep our lands fertile.
5. We invest 1% of our operational results in research

Principle 4. **Preservation of forests and natural habitats**

We reduce negative impact of our agro-operations by strict rules on preservation areas and deforesting. We execute an environmental impact assessment before we prepare new agricultural land.

1. At least 20% of our production land will be preserved.
2. We will enhance biodiversity in our preservation areas.
3. We will not deforest areas where natural ecosystems will be damaged or erosion problems will occur.
EIA will address this issue and will be part of the decision-making before land is purchased and will be revisited when purchased land will be developed.
4. We will not deforest rain forest nor will we use deforested areas in the Amazone region.

Principle 5. **Minimizing impact on food chain**

We will use our lands both for the production of feedstock for renewables and for food products. Food products will not be sold as feedstock for renewables.

1. On our own lands we use equal areas for food and for non-food products. By choosing the right exchange crops this will also benefit the quality of our soils.
2. For the shadow production by associated micro farmers we promote cross cropping of food an non food products.
A good example is cross cropping of Mamona Nordestina and Feijão verde.

Principle 6. **Ecological agro-production**

We apply sustainable agriculture minimizing the negative impacts of our agro-operations. We will avoid the use of agro-chemicals on our lands.

1. We will not use artificial 'biocides' such as insecticides, herbicides, fungicides and pest control chemicals avoiding 'biological magnification'.
We experiment with large-scale use of natural defensives such as the Nim tree.
2. We will use natural fertilizers and soil improvement. Where possible we will use exchange crops for soil improvement.
3. We will control the use of fertilisers avoiding micronutrient deficiency in soil and seepage of fertilizers to groundwater.
The applied fertilisers may not percolate down and find their way into groundwater aquifers.
4. In case of emergency when natural pest control is not sufficient we will only use light chemicals that are proven not to have a negative impact.

Principle 7. **Create significant employment with fair pay**

Creating sustainable employment in rural areas of the Northeast of Brazil.

1. We guarantee payment of minimum wages to our employees.
2. SuperVerde commits itself to work together with associated farmers on the same scale as its own operations.
Shadow production by associated micro farmers will generate large numbers of fair paid self-employment.

Principle 8. **Social investments around production units**

Our main social impact is the inclusion of micro farmers in our business model. We invest additionally in and around the areas where we work.

1. We reserve at least 1% of our operational results for social investments. When our profit before taxes exceeds our goals additional investment will be done.
We prioritize investments that benefit our own workforce, our associated farmers and their families. We mainly invest in sport, culture and education.
2. Social investments are part of our financial planning.

Principle 9. **Rationalizing use of water and resources**

We aim to use minimum quantities of water and resources for our agro-production.

1. We use irrigation systems with a minimum efficiency of 80%
2. We implement water management systems.
3. We strictly monitor the groundwater levels when using groundwater for irrigation
4. We monitor and rationalise the use of fertilizers
5. We monitor and rationalise the use of energy

Principle 10. **Facilitating a fair income for micro farmers**

We facilitate micro farmers to produce renewables on their own fields and to make this economically viable.

1. We invest in research and programs to ensure economical viable production by micro farmers
Up till now the production of products such as Mamona have not been economically interesting for local farmers. We will work together closely with governments and associations and help to provide training and instructions.

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SuperVerde™ renewables

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