

# GLOBAL DENIM

*The Green Book*

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# GLOBAL DENIM *Green*





# Environment

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Because this is our planet too, and we care about global warming and reducing our carbon footprint, Global Denim® has been actively involved in the protection and preservation of the environment since its startup.

We always stand behind sustainable practices. We're committed to state-of-the-art waste treatments, consuming green and lower energy, and we are committed to recycling our resources wherever is possible.

**“The environment is where we all meet; where all have a mutual interest; it is the one thing all of us share”**

**Lady Bird Johnson**



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A commitment to social responsibility and a better future for the planet is part of the culture and values of Global Denim®.

In pursuit of our goal, we do the following:

- Recycled water treatment plant
- Hydropower Plant
- Cogeneration Plant
- Constant maintenance of the plant
- Production processes that allow us to care for green areas
- Ongoing programs for caustic soda recovery
- Gradual replacement of chemicals and dyes
- Reduction programs in waste generation



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# Initiatives



The different initiatives that Global Denim has had from the beginning can be seen reflected in the following diagram:







# Hydropower Plant

Global Denim´s® own Hydropower Plant is located in Orizaba, Veracruz. Next to the Rio Blanco.

Hydropower is a fully renewable, 100% clean, green energy. It consumes no natural resources, produces no emissions, and creates no waste.

Installed Capacity of 11.3 MW

It produces energy for our Mill located in San Martin, Puebla, as well for other textiles mills.

It produces the energy used for Orizaba public lighting. It is entirely committed to the local community providing them electricity whenever they need it and with better prices.

Because it is located on a touristic spot in Orizaba called “Los 500 escalones”, it is committed to helping with its maintenance. Also its grounds are open to the public and is commonly used as a place for recreational activities.

It is regulated by the CRE (Energy Regulatory Commission) to meet its “clean energy” standards.





# Cogeneration Plant

Global Denim's® own Cogeneration Plant is Located inside our Mill on San Martin, Puebla.

Cogeneration (Combined Heat and Power or CHP) is the simultaneous production of electricity and heat (steam), taking advantage of all the power capacity of natural gas.

Cogeneration offers energy savings when compared with the supply of electricity and heat from conventional power stations and boilers.

It is the most effective and efficient form of power generation.

It has lower emissions to the environment, in particular of CO<sub>2</sub>, the main greenhouse gas.

Installed capacity of 20.4 MW.





# Water Treatment Plant

Global Denim's® own Water Treatment Plant is located on San Martin, Texmelucan in Puebla.

Wastewater treatment is a process to convert wastewater, which is water no longer suitable for its most recent use, into an effluent that can be either reused for different purposes (like irrigation) or returned to the watersupply with minimal environmental issues.

Our water treatment plant includes physical, chemical, and biological processes to remove contaminants and produce environmentally safe treated wastewater.

The physical-chemical process removes all the dyes, pigments and organic matter from the water, and regulates the pH, while the biological process cleans it.

Lastly Chlorine is added to the treated water and it is reincorporated to the water flow or used to care for green areas.



# CO<sub>2</sub> Recycling

To continue reducing our carbon footprint and helping the environment, we came out with a process to reuse and recycle our CO<sub>2</sub>.

We redirect all of the CO<sub>2</sub> that comes out of the boilers, and from the cogeneration plant through pipes and inject it into our Water Treatment Plant, instead of letting it go freely into the environment (which produces a big amount of contamination).

This process not only helps us reduce our carbon footprint, but also helps with the biological process of water treatment, and reduces our chemical usage.





# *Plastic Recycling*

Inside Global Denim's® Group is our own Plastic Recycling Plant, located in Lerma, Toluca in Mexico.

We recycle post-industrial and post-consumer plastic materials and produce plastic pellets, that will later turn into new products.

We also generate recycled plastic bags for supermarket and drugstore use, as well as non food safe grade plastic containers, for different companies.





# *Ecoloop- Cotton Recycling*

Ecoloop is a Global Denim® cotton recycling program based on the creation of new fabrics with recycled cotton yarn, sourced from pre-consumer waste, PIW, our own denim floor scraps, as well as denim waste from our business partners and customers.

This new initiative was born from the idea of responsibility, continuing sustainability, as well as helping the environment and creating a circular economy.

A brighter future needs our help and Global Denim is proud to call itself a game changer in the industry



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