ENVIRONMENT

We do things with *care* for the world.

+ 95%

OF OUR WASTE IS RECYCLABLE AND REUSED

Environment

Since our beginnings, we have worked every day to get the best out of the fruit and bring a wide variety of juices, nectars and world-class beverages to each family's table, without compromising the balance of the environment which provides our inputs.



Climate strategy

201-2

At Grupo Jumex we are convinced that climate change is a reality, so identifying the risks and opportunities we could face is of great relevance for our business.

RISKS

Risk description	Clasificación	Impact	Financial implications	Methods used to manage risk
Frost in Chihuahua and Monterrey	Physical	Pipe freezing	Production stoppage	Lines are drained to prevent pipe freezing

OPPORTUNITIES

Investment in new technologies in combustion equipment	Physical	Reduction of greenhouse gas emissions	Expenditure	Investment projects

Additionally, we are working on developing a climate strategy to frame and direct the actions we are implementing focused on reducing our carbon footprint, including:

» **We are implementing photovoltaic projects for energy production.**

» **We carry out a life cycle analysis of products to establish carbon footprint reduction targets.**

» **We implemented a weight reduction plan in PET containers (Jumex Sport, Kermato).**

» **We acquired new state-of-the-art steam generating equipment for greater efficiency.**

» **We acquired a hybrid delivery fleet with Euro 6 technology.**

In addition, since 2013 we started a water, gas and electricity program, **Jumex AGE.** We invite our employees to join different initiatives they can carry out in their daily lives, and we also implemented improvements within our operation.

JUMEX AGE SUCCESS STORIES

» **We implemented automatic background purges, given that the removal of impurities is essential to maintain steam quality.**

» **We changed vertical pumps for horizontal, in this way water is heated at a lower speed avoiding bubbling and maintaining the temperature.**

» **We changed a feed tank to boilers, installed a 44-thousand-liter tank to avoid spills.**

» **We installed a steam flowmeter for consumption measurement.**

October

We celebrated the **month of efficient use of water**, organizing a photo contest and other actions that allowed us to take care of the water for 826 families of five members for a full year.

November

We invited our employees to participate in a LUPs contest on the **efficient use of gas**, in which they could win prizes such as a bicycle, a boiler or an express pot.

December

As part of **the month of efficient use of electricity**, we organized a poster contest with messages alluding to the care of this resource in the company or in daily life.

As part of this program, we made improvements to our processes such as optimizing the SLATE system for carburetion efficiency, using a gas particle ionizer to improve combustion and swapping engines for new high-efficiency ones.

The results of these efficiencies are presented in the Water and Energy Management sections within this chapter.

Sustainable agriculture

FB-NB-440a.1, FB-NB-440a.2

A sustainable and resilient supply chain is crucial for us to satisfy the hydration needs of our consumers at every moment of the day, especially when much of the inputs we need come from the field.

Thanks to the commitment and close relationship we have with producers of the Mexican field, it is possible for Grupo Jumex to transform over 200 thousand tons of fruit into products of world quality each year.

We invest and bring resources that give life to the land so we can harvest the best fruits. Some of our best practices in this regard include:

- In 2019 we installed biofactories that generate agricultural inputs from organic elements.
- In 2019 we donated 4,800 apple and mango fruit trees in Chihuahua and Oaxaca.
- It is proposed to resume training programs for producers to improve crops, eliminating the use of chemical fertilizers and pesticides through the creation of Agricultural Operation Centers.

We also have identified the potential supply, environmental and social risks we face with our priority ingredients.

INGREDIENT	Risk description
WATER	Shortages in some regions of the country.
FRUIT	Production problems and scarcity.
FRUCTOSE	Warning labels related to fructose-sweetened products.

90% OF THE FRUITS AND VEGETABLES WE USE AS INGREDIENTS COME FROM AREAS WITHOUT WATER STRESS

Water management

303-3, 303-4, 303-5, FB-NB-140a.1, FB-NB-140a.2

Water is an indispensable resource to produce our beverages, so we know that we are committed to ensuring the efficient use in our processes. We recognize that we must take care of this resource for the benefit of society and the planet.

We have defined metrics and initiatives, designed to use water more efficiently such as:

» We have a wastewater treatment plant and tertiary treatment for water reuse.

» We reuse water in the fruit washing process, which comes from evaporated water.

» We have closed circuits of energy saving in pasteurization and cooling processes of containers – cooling towers.

» We have specific objectives per plant, focused on achieving better efficiencies in water use compared to the previous year.

WATER CONSUMPTION

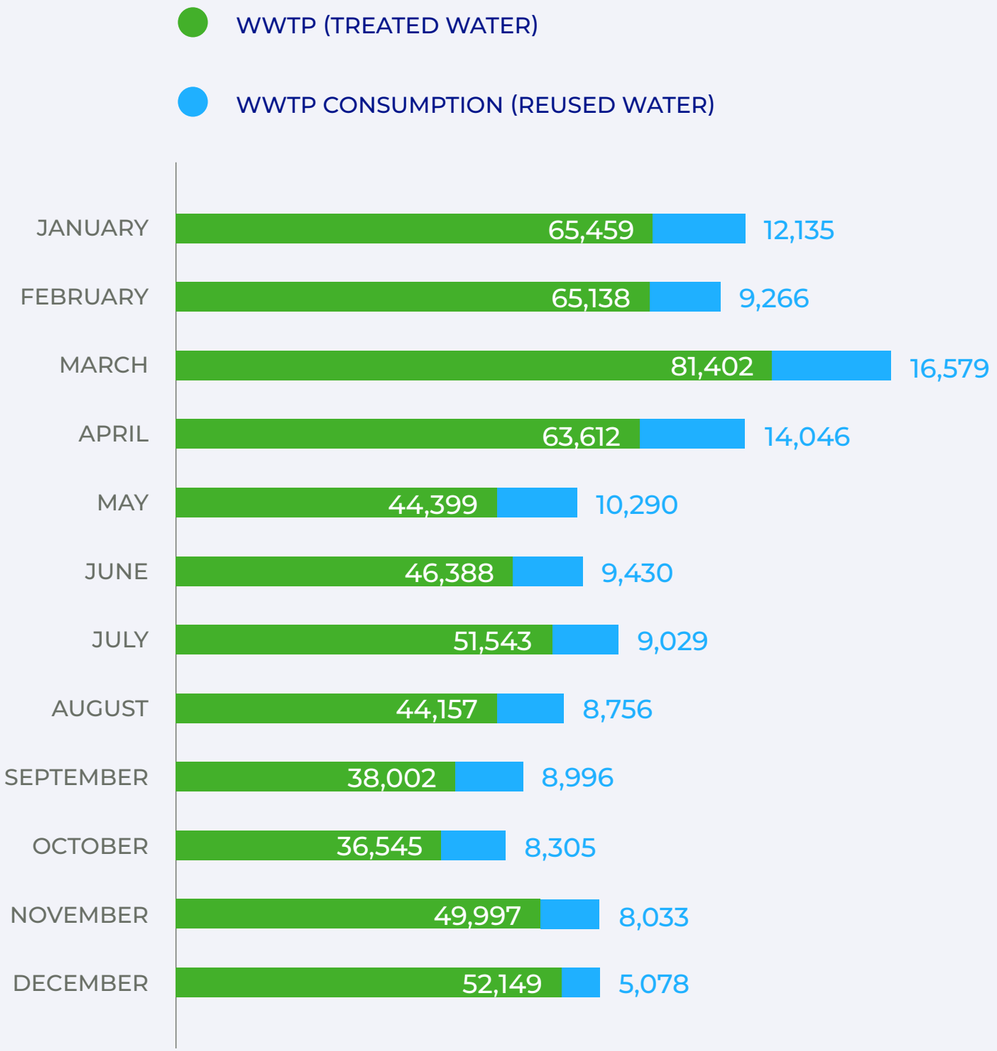
WITHDRAWAL SOURCE		MEGALITERS
GROUNDWATER		**2,281**
	% corresponding to areas with water stress	>80%
MUNICIPAL WATER SUPPLY		**281**
	% corresponding to areas with water stress	>80%
THIRD-PARTY WATER		**128**
	% corresponding to areas with water stress	>80%
PRODUCED WATER		**1**
	% corresponding to areas with water stress	>10%

TOTAL 2,692
MEGALITERS

We treat all the wastewater that results from our production processes, especially because of the high organic load waters can have due to fruit concentrates.

1.614
LITERS/BOTTLED LITER
INTENSITY IN WATER USE

TREATED AND REUSED WATER
(m³)



WWTP: Wastewater Treatment Plant.

119,943
m³ OF WATER REUSED DURING 2021

10
LITERS OF WATER TREATED PER SECOND

WATER DISCHARGES

DESTINATION	MEGALITERS
THIRD-PARTY WATER	**0**
SURFACE WATER	**807**

TOTAL 807
MEGALITERS

Aware that water is a priority resource for our operation, we identified the risks related to the way we manage it and we are in the process of analyzing and implementing practices to mitigate them.

RISKS ASSOCIATED

WITH WATER WITHDRAWAL AND

consumption in terms of environmental restrictions	consumption in terms of regulatory and financial constraints	with water or wastewater discharges
»Water stress in the north and central areas of the country. »Environmental contingencies, for example, frosts in the north and south of the country, hurricanes; last year the Category Three Hurricane Grace occurred.	»The amount of extraction is limited by a concession title, which in turn is in force for a certain period. »The increase in the costs of consumables to carry out water treatment, which depend on the region in which our plants are located. »The change or updating of standards, such as NOM 001 SEMARNAT.	»Destabilization of water treatment plants. »The increase in the costs of consumables to carry out water treatment, which depends on the region in which our plants are located. »The change in NOM 001 SEMARNAT, modifications must be developed for compliance with the new Standard in the existing WWTPs.

Energy management

302-1, 302-2, 302-3, FB-NB-110a.1, FB-NB-130a.1

Energy is another of the key resources for our operations, so we have set ourselves the goal of improving energy efficiency along our value chain.

The energy we use at Grupo Jumex is for the operation of our manufacturing plants, corporate offices and distribution centers, while the fuel is for steam generation for manufacturing processes and transportation.

Our main source of supply for electricity is the network of the *Comisión Federal de Electricidad* (CFE). We have a high voltage substation (85,000 V) with capacity for 14 MW for our complex in Tulpetlac, energy supplied by CFE Calificados.

ELECTRICAL ENERGY CONSUMPTION

LOCATION	MWh	GJ
PLANTS	77,296	278,266
DISTRIBUTION CENTERS	1,761	6,340
Total	**79,057**	**284,606**

FUEL CONSUMPTION FROM STATIONARY SOURCES

SOURCE	LITERS
NATURAL GAS	16,952,944,370
FUELOIL	465,298
DIESEL	150
Total	**16,953,409,818**

FUEL CONSUMPTION OF MOBILE SOURCES

SOURCE	LITERS
GASOLINE	5,544,389
LP GAS	771,031
DIESEL	192,168
Total	**6,507,588**

0.037
kWh/BOTTLED LITER
ENERGY INTENSITY

1.155
kWh/KG CONCENTRATE
FUELOIL INTENSITY

0.148
kWh/BOTTLED LITER
GAS INTENSITY

We have implemented electricity and fuel saving projects in all our facilities, including the change of high energy efficiency luminaires. In the WWTP of Tulpetlac complex we have a 1.2 MW cogeneration system.

GHG emissions

305-1, 305-2

In line with our commitment to the environment, we quantify and report greenhouse gas (GHG) emissions generated by our operations.

Our Direct Scope 1 emissions correspond to the consumption of natural gas and LP gas used in boilers and the diesel consumption of our delivery units. On the other hand, our indirect Scope 2 emissions are derived from the use of electrical energy in our offices, plants and production processes.

73,878

SCOPE 1 – DIRECT EMISSIONS tCO_2e

36,320

SCOPE 2 – INDIRECT EMISSIONS tCO_2e

In addition, we have initiatives focused on reducing our emissions, which are listed in the Climate Strategy section.

Waste management

306-3, 306-4, 306-5

We seek to mitigate the environmental impact of our operations, which is why we promote a culture of waste management throughout our value chain.

We use different recycling, reduction and reuse strategies, which are based on:

- Separation of recoverable materials.
- Sending organic waste to other sites for reuse.
- Identification of improvements in the value chain through life cycle analysis and the comprehensive waste management plan.
- Selection of service providers based on the best treatment and reuse proposals.

We seek to actively contribute to the solution for the global crisis of packaging pollution. In this regard, all our packaging is recyclable.

Non-hazardous waste

Recycled
13%
12,080,000 KG

Other use
87%
77,764,000 KG

Hazardous waste

Reused
13.3%
11,253 KG

Incineration
0.07%
63 KG

Confinement
33.9%
28,551 KG

Recycled
52.9%
44,893 KG

Municipal solid waste

100%
Sent to landfill

85,441,000 KG

WE HAVE DEFINED GOALS FOR THE FOLLOWING YEARS:

Goals

	2022	2023	2024
Implementation of recycled PET in PET bottles	**50% recycled PET** in cold fill bottles.	**25% recycled PET** in hot fill bottles.	
Reduction of polyethylene shrink film in packaging		**reduce by 7% the amount of shrinkable polyethylene** sent to the market.	
Reduction of corrugated cardboard in packaging		**reduce by 7% the amount of corrugated cardboard** sent to the market.	
Stretch film reduction		**reduce by up to 10% the amount of stretch film** sent to the market.	
Implementation of recycled polyethylene resins in shrink films for packaging			**add 15% recycled** resin.

The recycling rate of our PET products is 53%.
We are members of ECOCE.

GOALS BY CATEGORY:

Goals

	2022	2023	2024
Packaging	»Biodegradable straws	»Reduction in packaging weights »IBB technology in packaging	»Eco design »Eco-labeling »Recycled material
Water	»Water recovery and reuse (WWTP)	»Rainwater harvesting	»Water circularity »Aquifer recovery
Agriculture	»Urbanization in communities: construction of road and bridge in Tuxpan	»Sustainable agriculture/Organic Certification	
Sustainable certifications	»LEED certification	»***Industria Limpia***	
Sustainability		»Lifecycle calculator	»Circular economy »Carbon credits
Energy		»Electric transport: forklifts and vehicles »Photovoltaic projects in Chihuahua and Tulpetac plant	
Waste		»Zero waste	