



**TGI**  
Grupo Energía Bogotá

# ***Water footprint***



# Water footprint

It is an **environmental indicator** that seeks to quantify the amount of water involved in the generation of a good or service.

But it is also the way to know our responsibility as consumers and identify how we can be part of the solution to environmental problems.

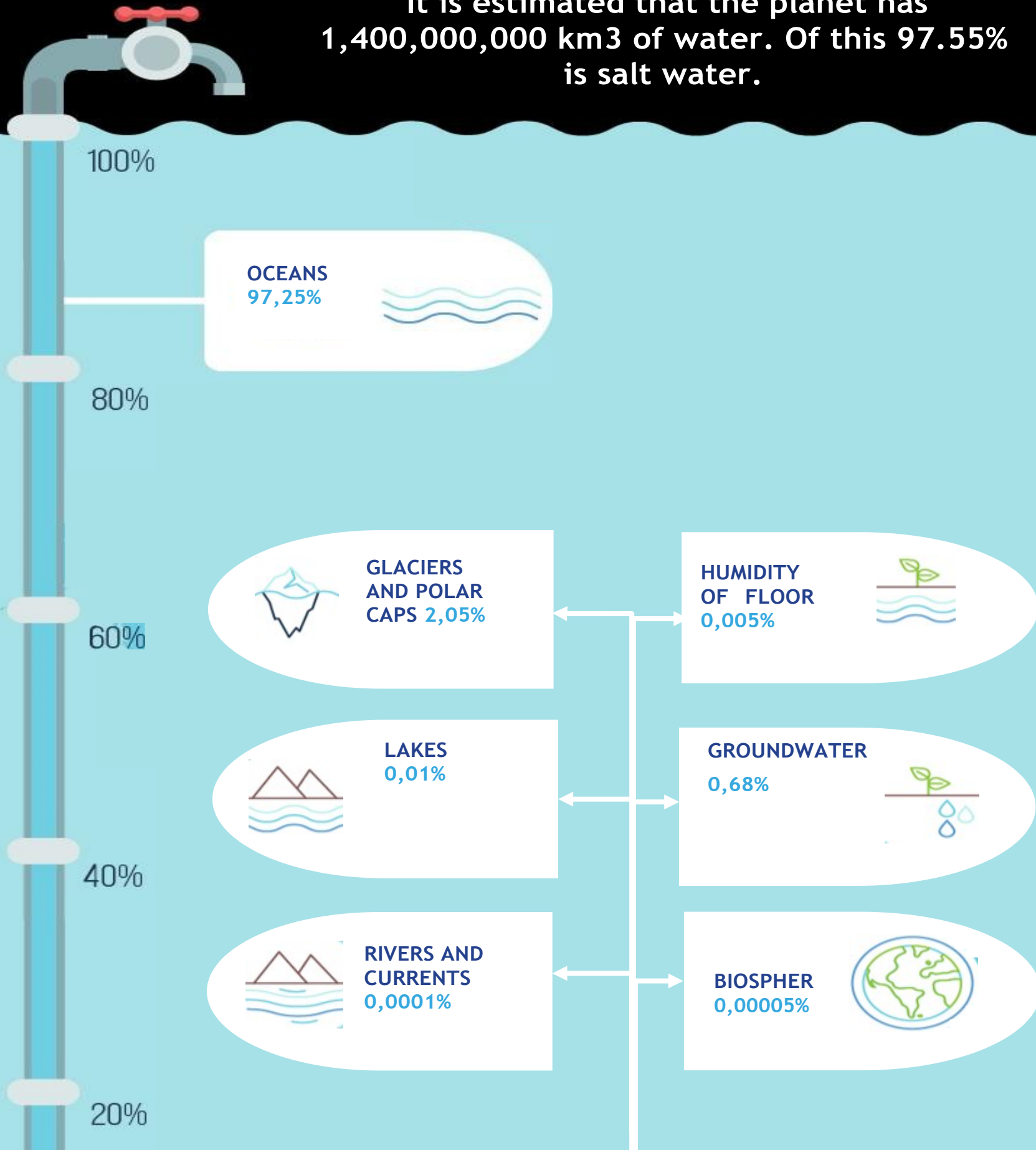
## Did you know?

The country's water footprint is 55,000 million m<sup>3</sup> per year

On average, a Colombian has a water footprint of 3,800 liters per day.



It is estimated that the planet has 1,400,000,000 km<sup>3</sup> of water. Of this 97.55% is salt water.



Divided into

**ONLY 2.75% OF THE WATER IS DRINKING**

The **water footprint** assesses consumption from different supply sources, as well as the levels of contamination from production processes. For this, it is estimated at following categories:

## Blue water footprint

water extracted from surface and / or underground sources that does not return to the source of where it was taken.

Use of rainwater on the grounds

## Green water footprint

## Gray water footprint

Theoretical volume of fresh water required to assimilate the pollutant load of a shedding.



The water footprint at the organization level can be direct or indirect. The first is the consumption of TGI, while the indirect is all the water involved in the elements used in its operation, such as pipes, paints, toiletries, stationery or cafeteria.



## Extracción de agua por sectores

Extracción de agua total\*

**4,001 =**  
**km<sup>3</sup>/año**



**12%**

### DOMÉSTICO

Actividades como preparar los alimentos, asearse, limpiar el hogar, regar el jardín, entre otras implican la utilización del agua



**19%**

### INDUSTRIAL

El agua utilizada para la producción de bienes materiales



**69%**

### AGRÍCOLA

El agua utilizada para el riego de los cultivos, la limpieza y alimentación del ganado

## Por continentes

África	227 Km <sup>3</sup> / año	33 Km <sup>3</sup> / año	9 Km <sup>3</sup> / año	184 Km <sup>3</sup> / año
América	859 Km <sup>3</sup> / año	123 Km <sup>3</sup> / año	321 Km <sup>3</sup> / año	415 Km <sup>3</sup> / año
Asia	2,556 Km <sup>3</sup> / año	234 Km <sup>3</sup> / año	253 Km <sup>3</sup> / año	2,069 Km <sup>3</sup> / año
Europa	334 Km <sup>3</sup> / año	69 Km <sup>3</sup> / año	181 Km <sup>3</sup> / año	84 Km <sup>3</sup> / año
Oceanía	25 Km <sup>3</sup> / año	5 Km <sup>3</sup> / año	4 Km <sup>3</sup> / año	16 Km <sup>3</sup> / año

\*Incluye el uso de agua desalada, el uso directo de agua residual municipal tratada y la utilización directa de agua de drenaje agrícola

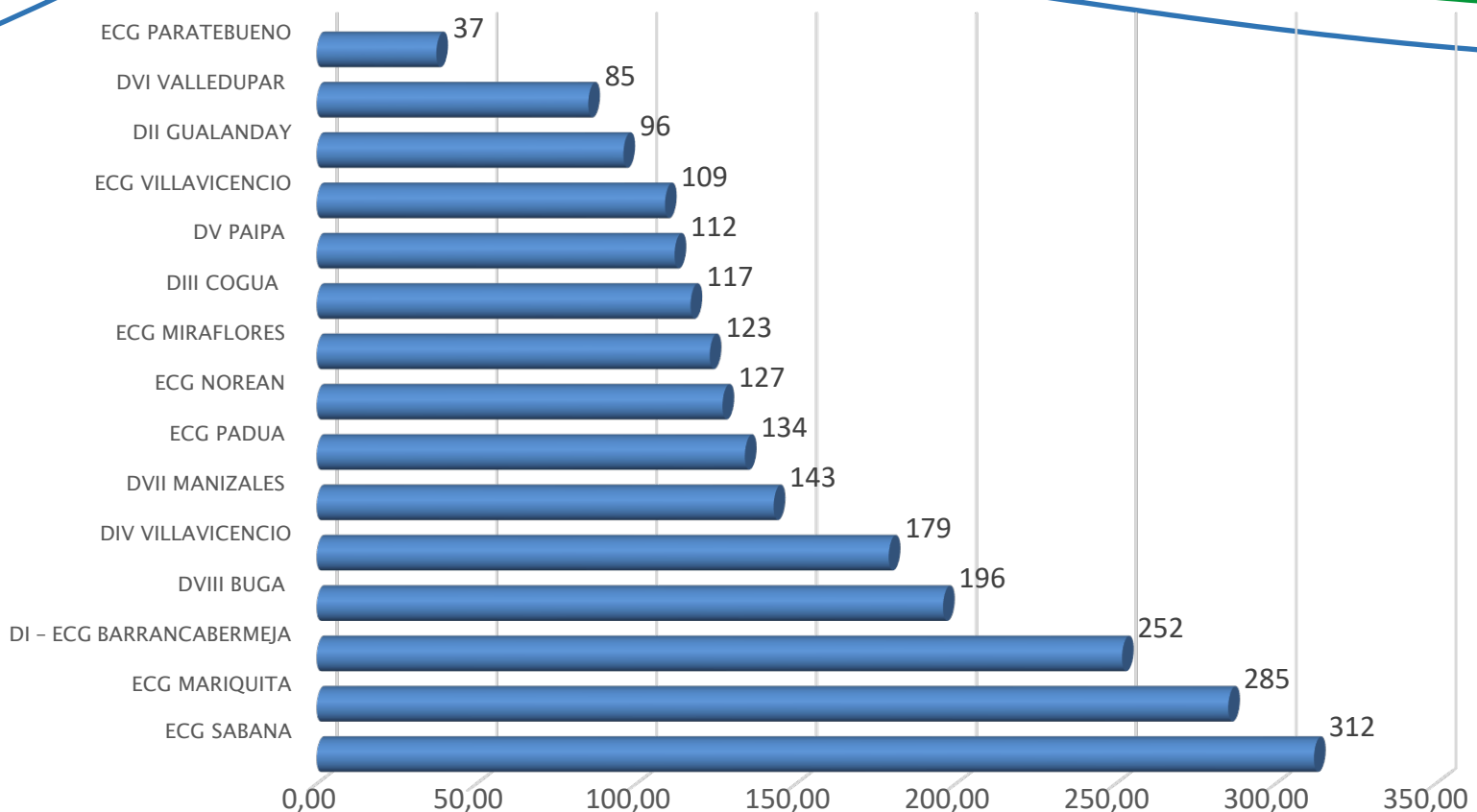
## Los países que más extraen agua al 2014 son:



# What is TGI's water footprint?

Water consumption in TGI is associated with domestic uses as it is not integrated into a product and is returned mostly in the form of dumping, so its direct water footprint is close to 0. Water consumption in TGI in 2020 was 3,346.94 m<sup>3</sup>,

## Consumption in m<sup>3</sup> in ECG and Districts



In the Administrative headquarters the consumption is 781.29 m<sup>3</sup>. Consumption in Norean, Mariquita and Villavicencio comes from wells while Paratebueno is purchased from tank cars.

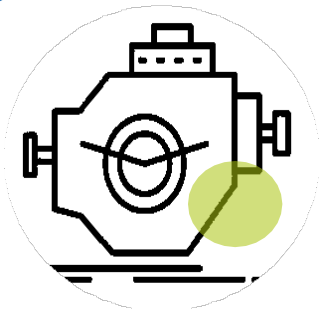
## Consumption in m<sup>3</sup> by type of source





# But does TGI have a water footprint?

Yes. The organization has an indirect **water footprint** due to the consumption of energy, fuel or paper.



## Natural Gas Consumed in the operation

For every m<sup>3</sup> of natural gas consumed, there is an associated blue water footprint of **0.0004 m<sup>3</sup>** of water. In total, TGI's indirect water footprint for this element would be **20,090.3 m<sup>3</sup>** of water.

Fuel consumption (ACPM, Gasoline) For the consumption of gasoline and ACPM, the water footprint is **1,380,910 m<sup>3</sup>**, of which **552,088 m<sup>3</sup>** of blue water footprint, **782,585 gray m<sup>3</sup>** and **46,237** of green footprint.



## Electricity consumption

For the organization's consumption of **3,566,038.61 kWh**, the blue water footprint is **20,090 m<sup>3</sup>** (0.0004 m<sup>3</sup> per kWh).

## Paper consumption

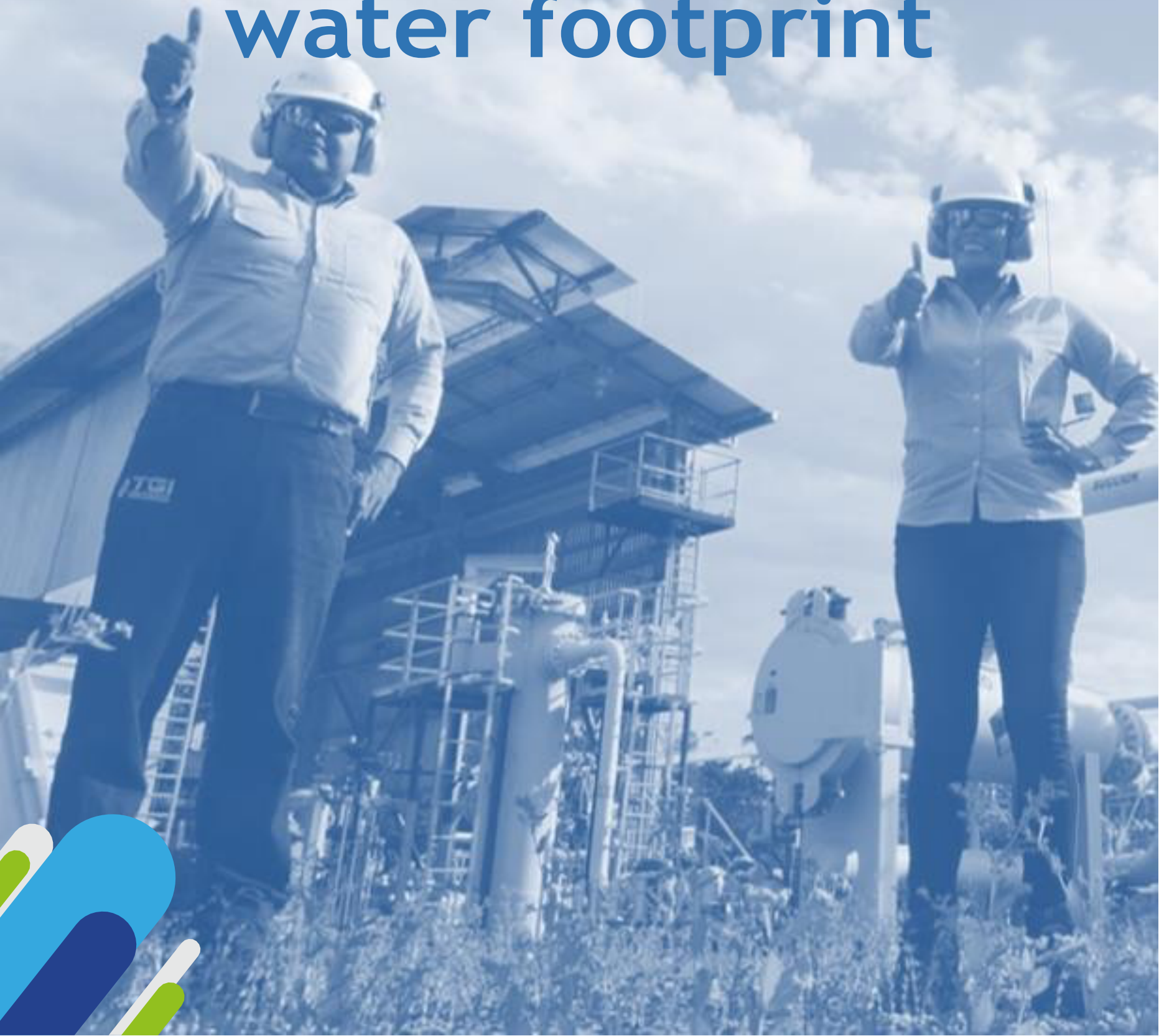
By consuming the **1,394 kg** of paper, there is a **blue water footprint of 19.23 m<sup>3</sup>**



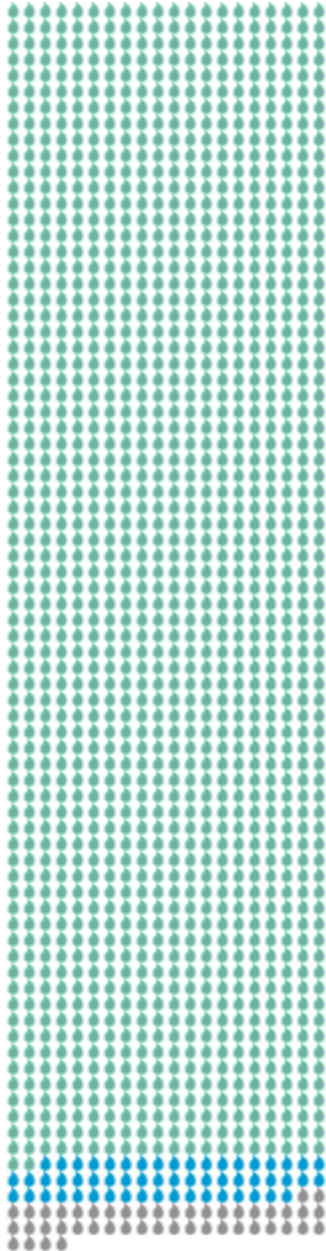


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# Personal water footprint

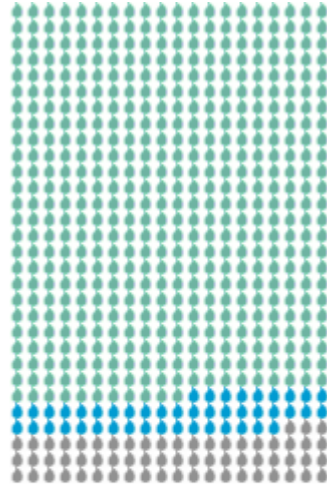






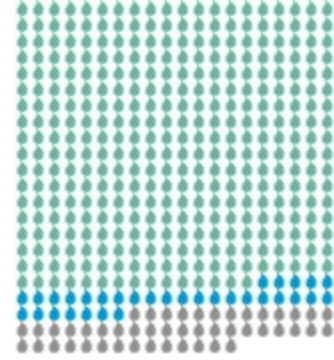
**beef (1 kg)**  
15,415 liters / kg  
94%V - 4%A -

2%G



**Pork (1 kg)** 5,988  
liters / kg

64%V - 21%A - 15%G



**Chicken meat (1 kg)**  
4,325 liters / kg

82%V - 7%A - 11%G



**Eggs (60 g)**

196 liters / kg

79%V - 7%A - 13%G

Beef has a higher water footprint due to the expenditure of water required to feed livestock.



**Wine (250 ml)**  
**109 liters**  
**70%V - 16%A - 14%G**



**Beer (250 ml)**  
**74 liters**  
**85%V - 6%A - 9%G**



**Coffee (125 ml)**  
**132 liters** **96%V**  
**- 1%A - 3%G**



**Milk (250ml)**  
**255 liters**  
**85%V - 8%A - 7%G**



**Potatoes(1 kg)**  
**287 liters/kg**

**66%V - 11%A - 22%G**



**Sugar (1 kg)**  
**1.782 Liters/kg** **66%V -**

**27%A - 6%G**



**Banana (1 kg)**  
**790 liters/kg**

**84%V - 12%A - 4%G**



**Apple (1 kg)**  
**822 liters/kg**

**68%V - 16%A - 16%G**



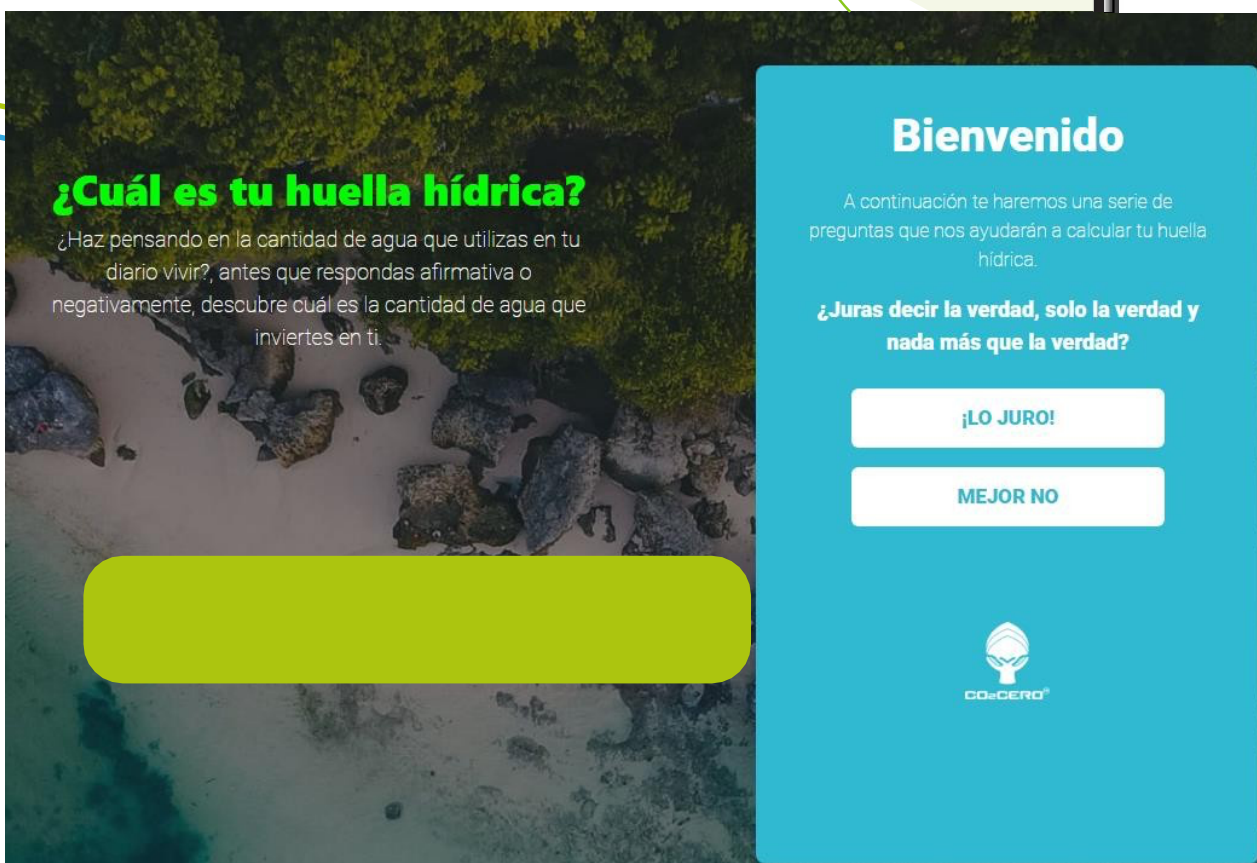
# Calculate your water footprint

To know your personal water footprint we recommend 2 options. The first download the CO2CERO app or enter the web calculator.

## ¡CO2CERO!

*Download the App*

*Measure your environment*





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