



WATER USE EFFICIENCY PROGRAM

Updated as of May 2025

- 1** **COMMITMENT**
- 2** **WATER CONSUMPTION - OUR CONTEXT**
- 3** **WATER EFFICIENCY IN OUR RICE BUSINESS**
- 4** **OUR COMMITMENT**
- 5** **WATER RISK MANAGEMENT**

WATER EFFICIENCY PROGRAM

COMMITMENT

GENERAL COMMITMENT

Since our inception we have been working in our sustainable production model in which we generate food and renewable energy, while being efficient in the use of natural resources.

In our **Environmental Policy** we state our commitment to prevent water pollution as well as promoting a conscious and rational use of this natural resource.

In 2021, we created our **ESG Committee** to analyze and monitor the impact of sustainability trends on our business. During the ESG meetings, we analyze the environmental, social, economic and governance impacts for each of our businesses. The main environmental indicators measured in each business are carbon balance, **water consumption**, renewable energy generated, energy consumption, effluents and waste management.

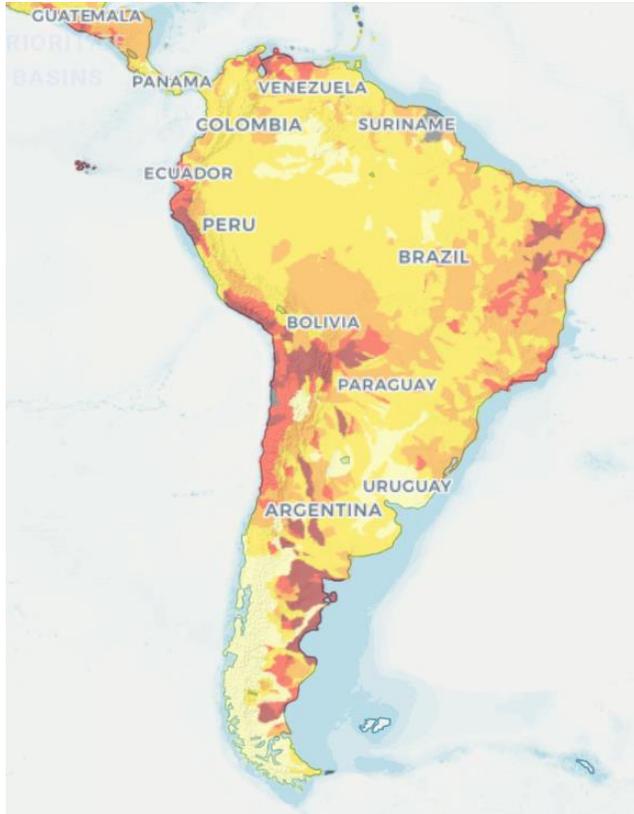
“During 2022, we began to discuss public commitments to reduce emissions and water consumption in order to contribute to the Paris Agreement and the United Nations 2030 Agenda. We are currently in the decade of action, a critical period until 2030 in which, according to the United Nations, the world must accelerate sustainable solutions to reduce global emissions. These goals will strengthen our role in the fight against climate change and in energy transition.” – **Mariano Bosch, Adecoagro CEO**

WATER CONSUMPTION

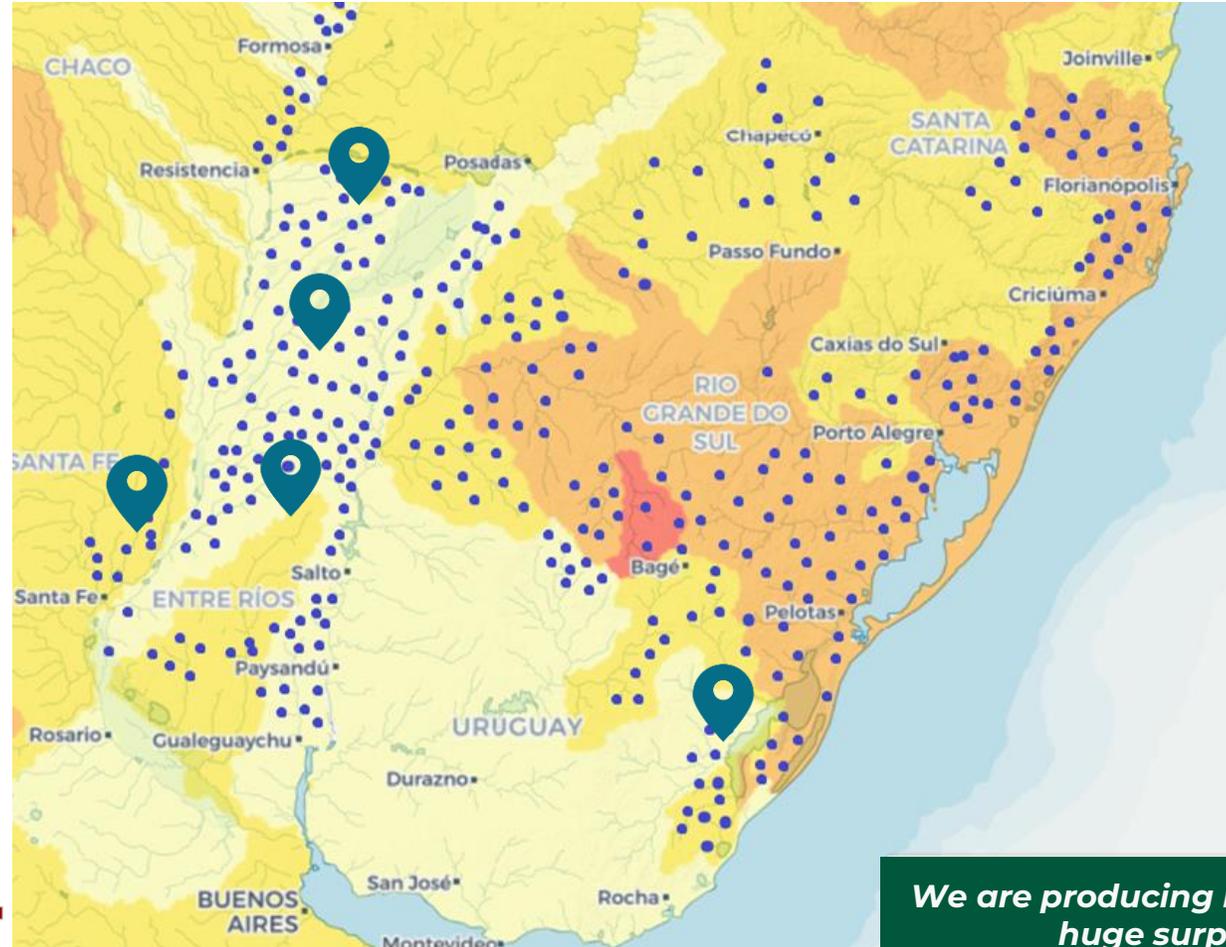
OUR CONTEXT

GLOBAL WATER RISK – SOUTH AMERICA

BETA
AQUEDUCT WATER RISK ATLAS



Overall Water Risk



- Rice production area
- 📍 Adecoagro's rice operations

We are producing rice in regions with a huge surplus of water

WATER WITHDRAWAL ANALYSIS

Most of our fields – except for rice and some crop fields – are rainfed only. We irrigate only a small portion of our fields (10% of total planted area - ~60k of 586k ha)*.

Rice business consumes more water than other businesses since the production of the rice grain requires the fully irrigation of the crop for approximately 90 days.

ADECOAGRO'S WATER WITHDRAWAL

Adecoagro does not withdraw water in water-stressed areas.

Water withdrawal in m3	2021	2022	2023	2024
Rice fields	426,726,485	574,759,553	495,223,485	501,874,804
Other Argentina & Uruguay	4,921,397	7,561,966	9,343,520	11,460,055
Brazil	7,216,470	6,421,720	6,124,774	6,637,211
Total	438,864,353	588,743,240	510,691,779	519,972,069
Rice fields (%)	97%	98%	97%	97%
Rice hectares	44,282	60,857	55,648	58,452

2024 details

Our rice fields are irrigated from rivers (58%) and reservoirs (42%); all of them have the corresponding permits granted by local authorities.

Other Argentina & Uruguay includes 1,780 ha of irrigated crops (corn, wheat, soybeans), and water for industrial processes.

Brazil includes the water consumed for the milling process.

97% of our water consumption corresponds to our rice fields, therefore our main efforts for action are in this business

WATER EFFICIENCY

RICE BUSINESS

OUR WATER MANAGEMENT APPROACH

Water is a critical factor for rice production, so we focus our efforts on improving water use efficiency in our irrigation process.

Our water management approach is based on the following pillars



Efficient irrigation technologies

We already have efficient irrigation technologies in place such as **precision leveling (zero level)** and **polypipes** that help to reduce water consumption up to 30%

In 2024, **100% of our own rice fields hectares were irrigated using efficient-irrigation technologies** (84% when including leased area).



Enhancing efficiency with technology

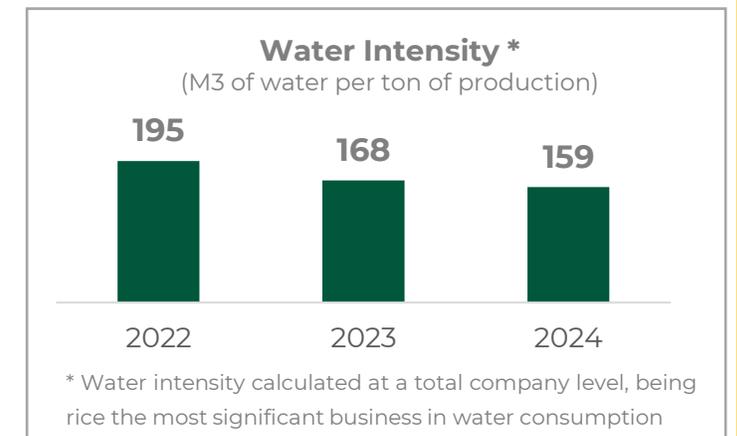
We implement innovative technologies to enhance irrigation efficiency such as drones, satellite imagery, electronic buoys and sensors:

- **2,400+ electronic buoys** installed, monitoring 25,900+ ha.
- **Sensors** in place to monitor the water level in channels.
- **Automated pumping** process in 76% of ha.



Measuring our water footprint*

We track our **water intensity** and footprint as part of our water management to improve even further our water consumption per unit of production.



EFFICIENT IRRIGATION – PRECISION LEVELING (ZERO LEVEL)



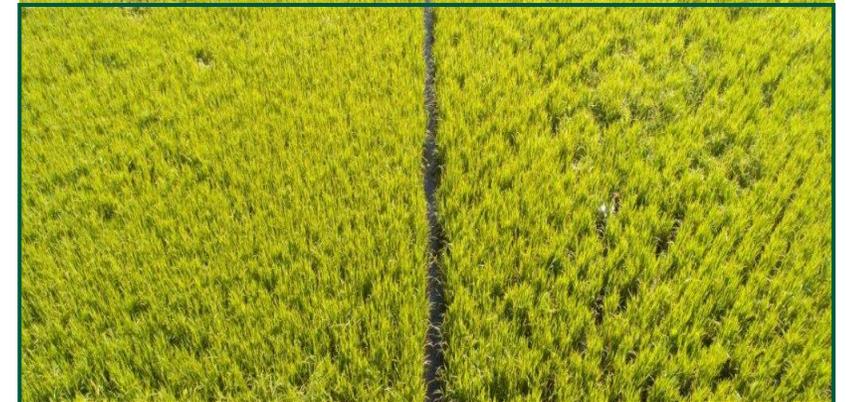
MAIN FEATURES

- Irrigation is critical to rice yield and cost of production
- We were **pioneers in introducing this technology** in the region
- With precision leveling, **fields are perfectly leveled**, and have a square shape

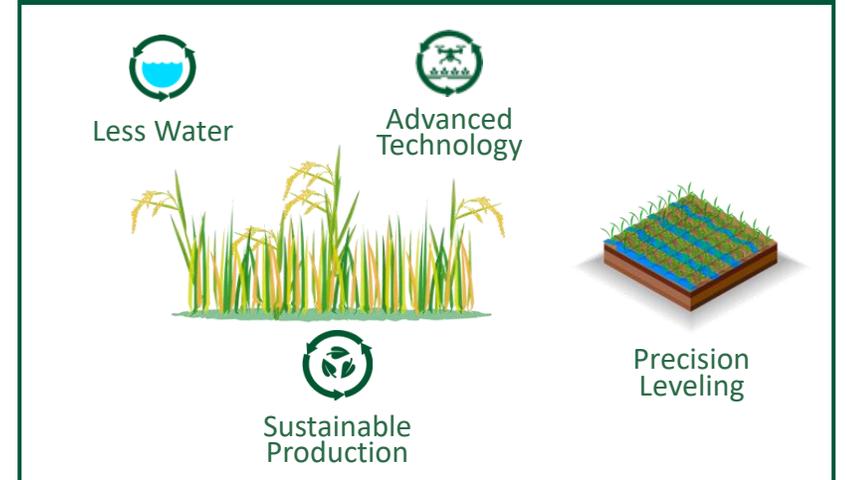


MAIN BENEFITS

- It helps us to **reduce water consumption by 30%**, energy consumption by 44% and its associated GHG emissions
- It allows us to perform a **better irrigation management**, leading as well to a more controlled irrigation calendar scheme potentially reducing GHG emissions derived from the irrigation process
- Lower water and energy consumption, **reduces the irrigation cost**



Precision Leveling: ~40,000 ha



EFFICIENT IRRIGATION – POLYPIPES TECHNOLOGY



MAIN FEATURES

- We use this technology in hilly farms, where Precision Leveling is not feasible
- Water is conducted through **polyethylene tubes** (different sizes for different flows and field sizes)
- No dirt-based channels are needed



MAIN BENEFITS

- **20%-30% less water and 35% less energy consumption** (lower cost and GHG emissions associated)
- It enables more **efficient irrigation management**, resulting in a more controlled irrigation schedule and a potential GHG emissions reduction associated with this process.
- **Lower erosion risks** (as dirt-based channels are avoided)



Polypipes 23/24 campaign: 9,400 ha

ENHANCING EFFICIENCY – TECHNOLOGY FOR MONITORING



MAIN FEATURES

- We are measuring the water-flow from the river and channels to the fields; it is connected through IoT
- We are monitoring water levels on our fields with Drones and Satellite imagery
- This methodology helps us to be more efficient by optimizing water usage and enhancing rice productivity

DRONES

- Visible RGB
- Thermal

SATELLITE

- NDVI



MEASURING OUR WATER FOOTPRINT



WATER FOOTPRINT NETWORK (WFN) METHODOLOGY

- During 2021 we carried out a pilot in Doña Marina farm
- The methodology includes direct and indirect use of water
- It also assesses 3 types of footprint

WATER FOOTPRINT PILOT RESULTS:

 **GREEN FOOTPRINT:** Rainwater

 **BLUE FOOTPRINT:** Fresh water used for irrigation

 **GREY FOOTPRINT:** Fresh water required to assimilate pollutants

491 Lt/kg

796 Lt/kg

195 Lt/kg



Similar to our own estimations (1,402 Lt/kg)*



We are transforming local “excess” of water into high quality food

OUR COMMITMENT TO WATER INTENSITY EFFICIENCY

WATER INTENSITY COMMITMENT – SINCE OUR ORIGIN AND GOING FURTHER

As an agribusiness company, water is essential to our field production, particularly in our rice operations. Water is among Adecoagro's top 10 material topics, reason why we constantly search for **efficiencies** to reduce and **optimize the use of this resource**.

For years, we've been adopting **advanced irrigation technologies**, and we continue to expand these practices across the hectares of our rice fields. These technologies have allowed us to **reduce water consumption in irrigation by up to 30%**. Our eagerness for efficiency and environmental stewardship drives us to adopt **innovative solutions** that further **minimize our water footprint**.

As outlined in our Environmental Policy, we remain **committed to preventing water pollution and promoting the responsible use of this vital resource** .

WATER RISK MANAGEMENT

OUR APPROACH

OUR WATER RISK MANAGEMENT APPROACH

- As an agribusiness company, water is critical for our field production, especially in our rice business.
- Extreme weather events such as floods or droughts can affect the flows and volume of water available used for our crop production, impacting as well in soil erosion.
- To face and overcome possible water risks, we have different technologies and practices in place:

Our water risk management approach



Regenerative agriculture

Implementing practices that help us take care of the soil and improve water infiltration leading to lower water requirements

- Precision agriculture
- No-till
- Cover crops
- Land-levelling



Efficient irrigation technologies

Adopting technologies that lead to lower water requirements for production

- Precision leveling and polypipes
- Drones
- Satellite images
- Buoys, levels and hoses
- IoT nodes
- Weather forecasts



Productivity efficiencies

Enhancing productivity efficiencies lead to lower water requirements, mitigating the impact of extreme weather events

Flexibility in our production plan allows us to adapt sowing based on weather forecasts, including the adjustment of crop rotations and planting schedules

WATER USE EFFICIENCY PROGRAM

Please [CLICK HERE](#) to access our Sustainability website

Please [CLICK HERE](#) to access our 2024 Integrated Report



consultas@adecoagro.com
www.adecoagro.com