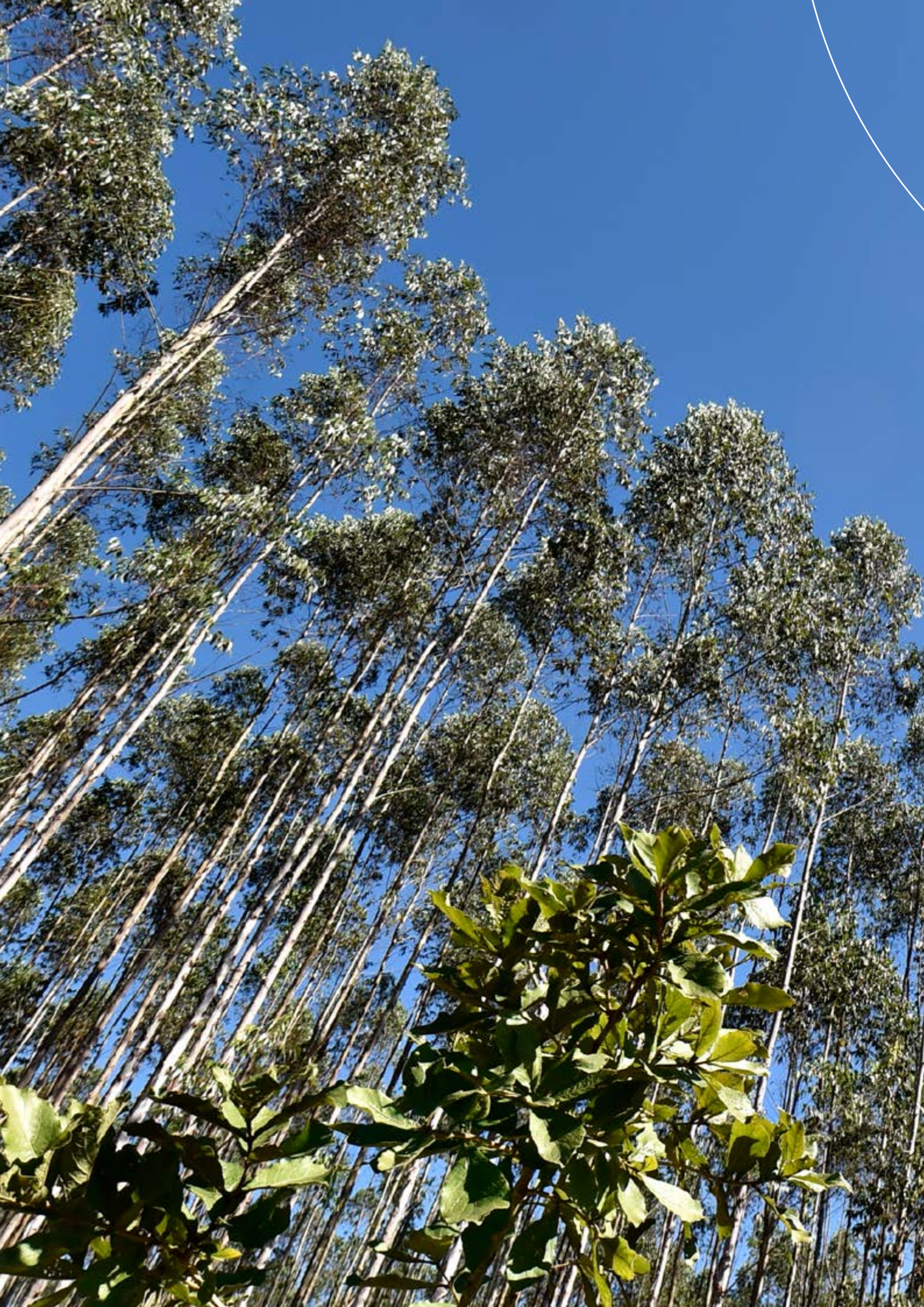
suzano

Green Bond Report 2019

Suzano S.A. related of erstwhile Suzano Papel e Celulose:

Use of Proceeds Statement



Suzano S.A. related to the Green Bond Report of erstwhile Suzano Papel e Celulose: Use of Proceeds Statement

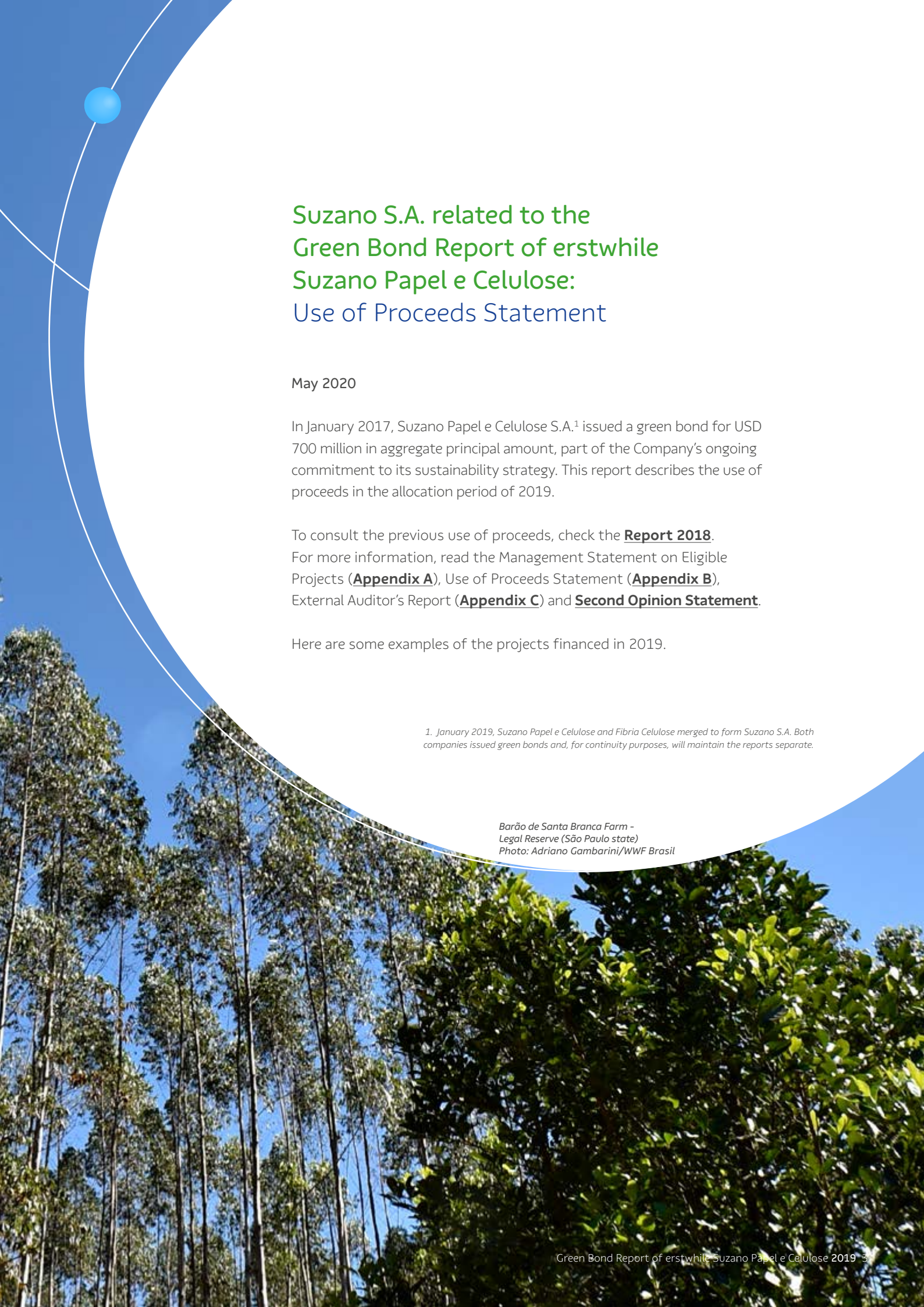
May 2020

In January 2017, Suzano Papel e Celulose S.A.[1] issued a green bond for USD 700 million in aggregate principal amount, part of the Company's ongoing commitment to its sustainability strategy. This report describes the use of proceeds in the allocation period of 2019.

To consult the previous use of proceeds, check the **Report 2018**.
For more information, read the Management Statement on Eligible Projects (**Appendix A**), Use of Proceeds Statement (**Appendix B**), External Auditor's Report (**Appendix C**) and **Second Opinion Statement**.

Here are some examples of the projects financed in 2019.

1. January 2019, Suzano Papel e Celulose and Fibria Celulose merged to form Suzano S.A. Both companies issued green bonds and, for continuity purposes, will maintain the reports separate.



Barão de Santa Branca Farm - Legal Reserve (São Paulo state)
Photo: Adriano Gambarini/WWF Brasil

1. Project: Debottlenecking and modernization of Imperatriz Unit

Suzano is the largest producer of eucalyptus pulp in the world in terms of production capacity and offers a broad portfolio of renewable-based products, composed of pulp; printing and writing paper; tissue papers and diapers; packaging paper for a number of segments; specialty papers, and many others.

The installation of the brown dough washer (DD-Washer), installed in 2018, along with the investments made for the removal of bottlenecks and modernization of the Imperatriz Unit (MA), helped to improve the pulp washing system during the cooking process, leading to environmental improvements and productivity gains during the pulp bleaching stage.

Thanks to the installation of new equipment and adjustments in the process, the pulp's chemical oxygen demand (COD) declined, minimizing the need for chemical inputs during the production process. There was a 36.5% reduction in the quantity of the main pulp-production chemical components – chlorine dioxide, caustic soda (sodium hydroxide) and sulfuric acid – used to make each air-dry metric ton (ADMT) between 2016 and 2019.

In October 2018, we started the DD-Washer operation, which, in addition to reducing the specific consumption of chemical components already mentioned, it reached a 10.5% reduction in the COD sent to the Wastewater Treatment Plant (WWTP).

Technical details

- **Total Allocation of proceeds until 2019 (BRL Thousand):** 135,787.63
- **Organic load sent to wastewater treatment plant:** 34.82 kg COD/ADMT
- **Use of water per ton of manufactured product:** 27.07 m³/ADMT
- **Specific use of chemicals[2]:** 38.51 kg/ADMT

2. Being 8.55 kg/ADMT of chlorine dioxide, 19.03 kg/ADMT of sodium hydroxide and 10.93 kg/ADMT of sulfuric acid.

From left to right: Willians Silva Rodrigues, Layane Bonfim dos Santos, Ana Célia Araújo da Silva, Jeysly Bandeira de Oliveira, Gina Kercia de Sousa Pimentel, Jessyca Cleanne da Mata Araujo and Izabela Lobato de Souza, Ocupational Safety, in Imperatriz (Maranhão state). Foto: Marcio Schimming

2. Project: Imperatriz WWTP

The expansion of the Wastewater Treatment Plant (WWTP) at the Imperatriz unit (Maranhão state), concluded in 2016, provided environmental gains in the past year. The project was included in the facility's 2013 plan, and the construction started after the factory began operations in order to provide support for the expansion of production capacity.

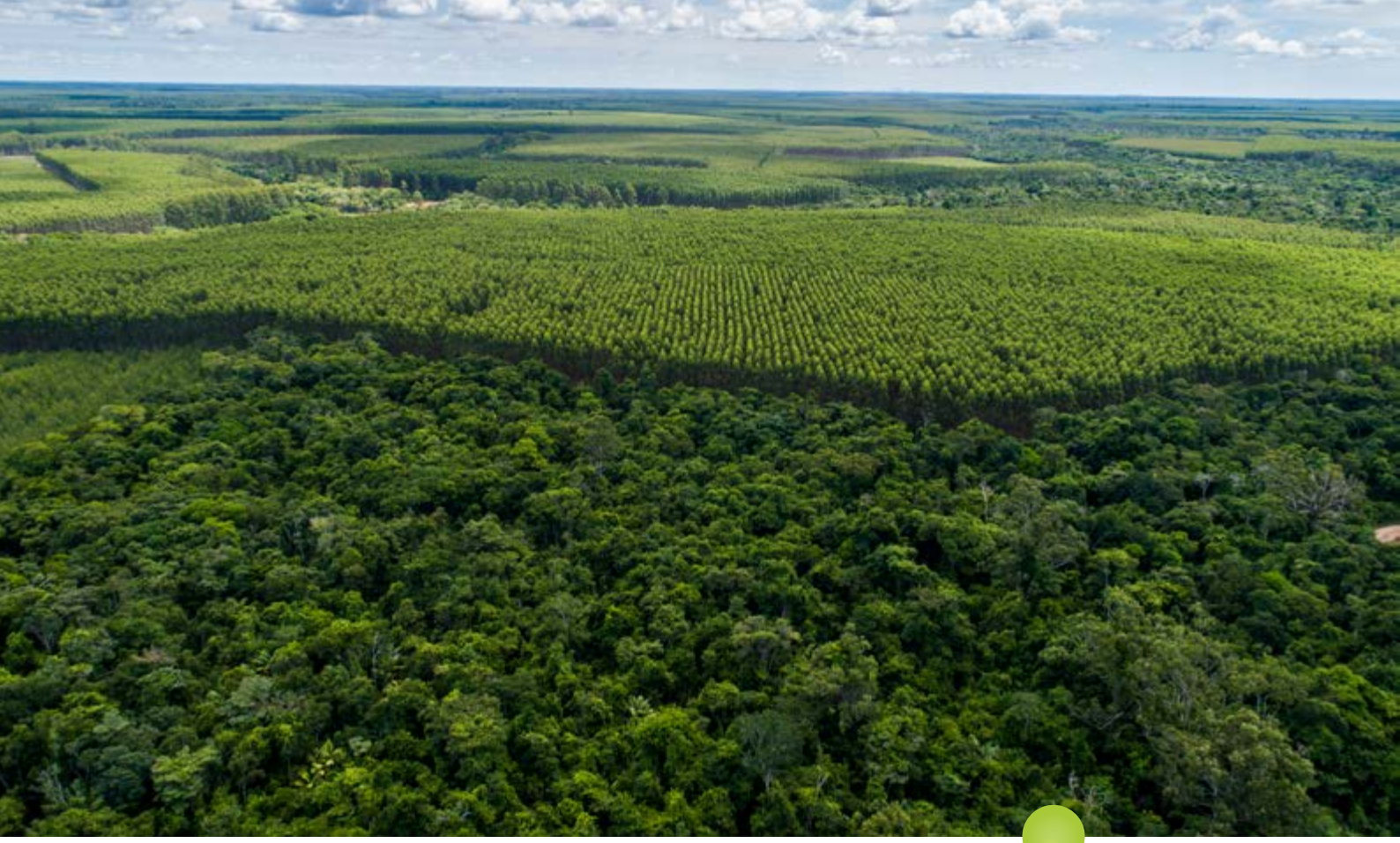
Even with the increase in the raw effluent volume sent, due to the increase in the production volume in recent years, the WWTP has been showing excellent performance.

We should note that the water quality parameters reported at the unit were already considered excellent, according to international benchmarks by the World Bank (IFC Guideline) and the European Commission that consider up to 15.5 kg of COD per air-dry metric ton (ADMT) to be in alignment with best practices.

In the last year, the treated effluent COD reached a performance of 2.69 kg COD/ADMT.

Technical details

- **Total Allocation of proceeds until 2019 (BRL Thousand):** 2,683
- **Organic load sent to wastewater treatment plant:** 2.69 kg COD/ADMT



Forest mosaic in Mucuri (Bahia state)
Photo: Ricardo Teles

3. Project: Mucuri WWTP

The new Wastewater Treatment Plant (WWTP) at the Mucuri unit (Bahia state) was concluded ahead of schedule, with its construction ending in 2017 and providing a direct impact on the quality of the effluent released into the Mucuri River. The investment was necessary to support the increase in printing and writing paper output, and the start of tissue manufacturing.

The initiative included the installation of a WWTP with an activated sludge system that operates in parallel with the current aerated-lagoon wastewater treatment plant. The former is more efficient, removing 99% of Biochemical Oxygen Demand (BOD), compared with a 94% efficiency rate for the lagoon system.

The project meets one our business's main demands: maintaining plants' operational capacity during periods of drought in the region. During droughts, with the consequent reduction in the volume of the Mucuri River, the capacity of releasing higher-quality effluent into this body of water mitigates any risk of production stoppages, as well as ensuring the environmental efficiency of industrial operations..

Technical details

- **Total Allocation of proceeds until 2019 (BRL Thousand):** 69,057.98
- **Organic load of final effluent:** 6.60 mg BOD/L

4. Project: Limeira WWTP

The swapping out of equipment at the Wastewater Treatment Plant (WWTP) at the Limeira unit (São Paulo state) led to improvements in efficiency and reduced environmental impacts forecast for the plant. The initiative, concluded in 2016, involved the swapping out of old aerators, which were less energy efficient and required the injection of liquid oxygen during treatment, for a waterfall-type model, which is more modern and requires less energy.

As a result, the specific use of energy decreased and the need to buy and apply liquid oxygen was permanently eliminated. The local impacts resulting from the improvements were noted in the reduction of the perception of odors. We have had no complaints from the community regarding this matter[2].

Technical details

- **Total Allocation of proceeds until 2019 (BRL Thousand):** 1,429
- **Specific energy load for treating effluent:** 0.1 kWh/m³

3. Source: Complaints records from the Environment department.

Limeira Unit (São Paulo state).
Photo: Ricardo Teles

5. Project: Forest recovery

The investments we have carried out in order to recovering degraded areas, preserving and managing the remaining native vegetation are part of our business strategy, and help to protect the biomes in Amazon, Atlantic Forest, and in Cerrado. Alongside our operations are aligned with the commitments made to environmental agencies and in order to comply with regulations - such as the National Forest Code - our restoration activities help to fight climate change, since they increase carbon stocks as growing vegetation captures carbon dioxide from the atmosphere.

In addition, reclaimed areas provide other ecosystem services, such as groundwater recharge, natural pests control that can damage plant species, and the protection and maintenance of soil properties.

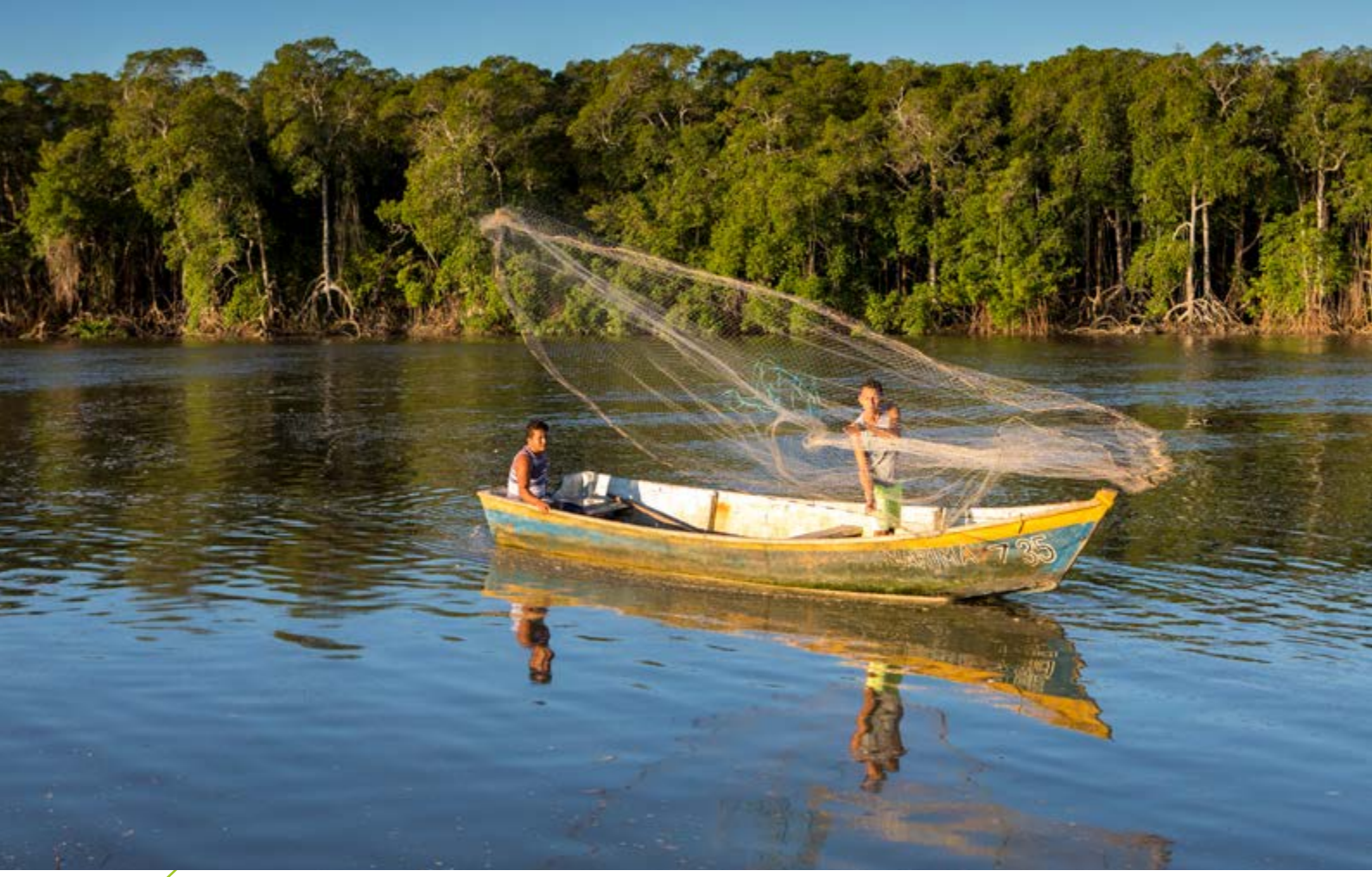
The communities close to our facilities have also benefited from having access to spaces set aside for non-timber activities, which contribute to the generation of complementary income, and from having access to educational activities, with a focus on raising awareness about the importance of environmental preservation.

All areas set to be recovered are evaluated during a diagnostic stage, which may include aerial imagery analyses and field studies. Based on this characterization report, we identify the current level of degradation and the conditions necessary for the recovery of each area, information that provides support for the planning of future recovery activities.

Technical details

- **Total Allocation of proceeds until 2019 (BRL Thousand):** 7,899

SUSTAINABLE FORESTRY Degraded areas recovery and maintenance of natural ecosystems	2015	2016	2017	2018	2019
1- Areas being recovered (ha)	5,503	5,571	5,886	7,274	2,291



Mucuri Springs Project (Bahia state). Photo: Ricardo Telles.

6. Project: Mucuri Springs

We are taking action beyond our ecosystem restoration operations, through partnership with NGOs and other institutions. In this context, the Mucuri Springs Project, launched in 2017 by Suzano in partnership with The Nature Conservancy (TNC), is worth mentioning. The initiative involves environmental education efforts and activities to qualify local producers, such as the restoration of springs and support for government preservation policies. Recovery of native forests is vital to preserve the availability of water resources of the Mucuri River. Furthermore, the vegetation helps on groundwater recharging, which then appear as springs. As a result, all the communities in the Mucuri Basin, including those in the municipalities where we have forestry and industrial operations, are benefited.

Technical details

- **Total Allocation of proceeds until 2019 (BRL Thousand):** 488

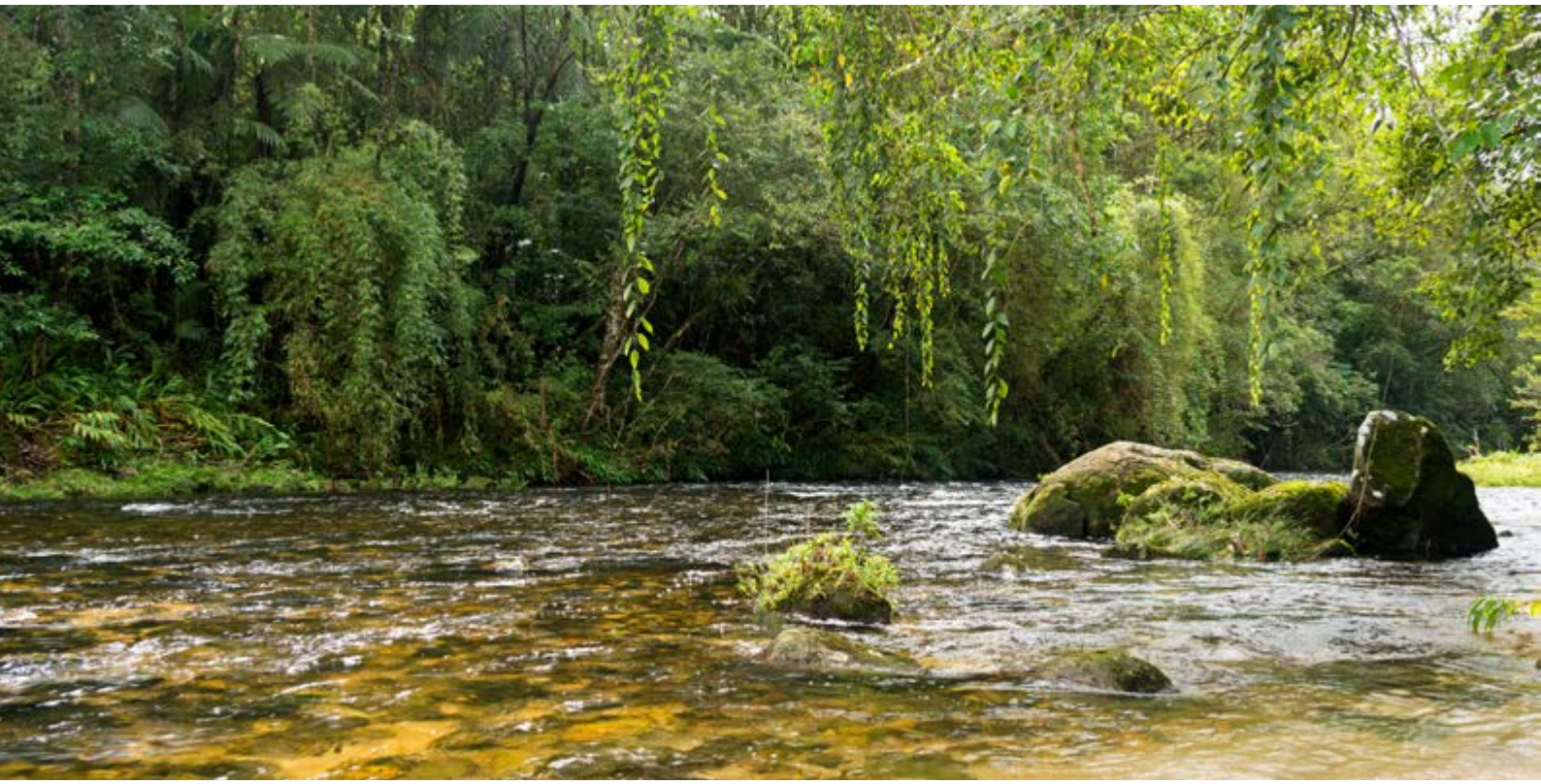
7. Project: Preserving biodiversity

We are present in three important Brazilian biomes: Atlantic Forest, Cerrado and Amazon - and also in its borders. We are committed to the integrity of these habitats and have adopted several measures for the biodiversity preservation.

In the operational units, we periodically monitor fauna and flora in High Conservation Value Areas (HCVAs), in two modalities: quick ecological assessments and more complete species identification campaigns. The frequency of these monitoring activities varies between the forestry units of the former Suzano Papel and Celulose in the states of Bahia, Maranhão and São Paulo, according to local characteristics.

The eucalyptus plantations in a mosaic system, interspersing the plots with areas of natural vegetation, allow the maintenance and development of fauna and flora species through ecological corridors. This technique helps to conserve endangered animal species and to preserve biodiversity in natural ecosystems.

Neblinas Park (São Paulo state). Photo: Eliza Carneiro



Meio Ambiente (Environment) Program - Ecofuturo Institute (São Paulo state) Photo: Eliza Carneiro

Through *Parque das Neblinas* (Neblinas Park), located at São Paulo state, we expanded, the impact of this topic (preserving biodiversity), promoting awareness courses for eco-tourists and promoting environmental education activities, in addition to supporting academic research and involving the local community in various initiatives. The area of approximately 7,000 hectares of the Atlantic Forest belongs to Suzano and is managed by Instituto Ecofuturo, an organization founded in 1999 and which has our company as its main sponsor.

Technical details

- **Total Allocation of proceeds until 2019 (BRL Thousand):** 12,584

CONSERVATION Maintenance and conservation of areas, fauna & flora, natural resources, studies and monitoring	2015	2016	2017	2018	2019
1 - Total natural areas (ha)	479,345	491,376	538,168	554,883	571,386
2 - Natural areas/total area (%)	44.17	44.42	44.70	44.36	44.32
3 - Natural areas/planted area (%)	109,76	108,70	106,10	102,27	101,71
4 - HCVAs identified and maintained	30	27	31	33	34
6 - Benefitted by environmental education programs	3,247	4,276	5,962	3,376	5,924
7 - Eco-tourists at Neblinas Park	2,544	3,355	3,392	4,839	4,800
8 - Number of studies carried out at Neblinas Park	4	3	16	14	73

Eucalyptus plantation in Itatinga (São Paulo State). Photo: image bank Suzano

8. Project: Sustainable Forestry

Eucalyptus cultivation is the core of our business model and provides the renewable material we use to manufacture products that provide to consumers a better quality of life and wellbeing. We do not conduct the conversion of natural vegetation into eucalyptus plantations, since our plantations occupy areas previously used by humans for other purposes.

Our plantations adopt the best techniques and technologies. These include minimal cultivation, which maintains leaves, tree bark, and other natural elements in the soil, which is a way to avoid soil exhausting and reduce the use of agrochemicals. We also do not use burns during our eucalyptus cutting and harvesting processes, reducing the carbon footprint of our forestry activities and any other negative impacts of this practice.

Reflecting our prominent forestry role at our owned and leased areas, our certified cultivation areas serve as practical tools for showing our clients and other stakeholders how our policies and procedures promote a balance between value creation and innovation. The chain of custody certificates FSC® (Forest Stewardship Council® - FSC C010014) and PEFC/CERFLOR (Brazilian Forest Certification Program) attest to the responsible origin of the wood we use in our production.

Technical details

- **Total Allocation of proceeds until 2019 (BRL Thousand):** 2,041,498

Sustainable FORESTRY Sustainable forestry in accordance with national and international standards of responsibility and sustainability.	2015	2016	2017	2018	2019
1 - Carbon stock in planted areas (tCO_2e)	55,164,857.82	54,831,925.56	57,867,710.70	70,464,382.51	60,657,122.00

9. Appendix A

Suzano is responsible for the completeness, accuracy and validity of Suzano Papel e Celulose's Use of Proceeds Statement (Appendix B). We assert through this use of proceeds attestation that net proceeds of BRL 2,295,769,912 were disbursed between January 2015 and December 2019 for qualifying Eligible Projects that meet the Eligibility Criteria set forth below:

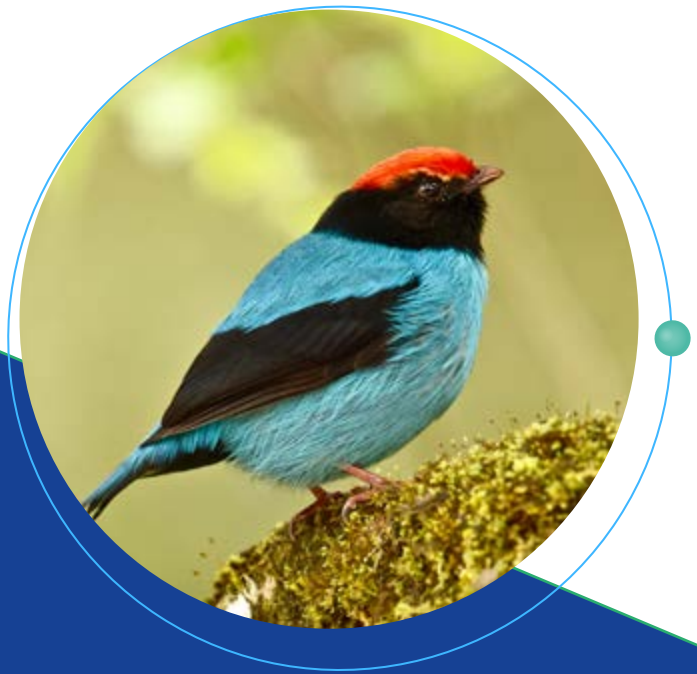
ELIGIBILITY CRITERIA	
Sustainable Forests – Forest Management	Investment related to the sustainable management of forests and compliance with national and international certification standards
Sustainable Forests – Restoration of degraded areas	Expenditures related to restoration of degraded areas and conservation of natural ecosystems
Biodiversity Conservation	Investment in projects of maintenance of natural areas (and their eventual expansion) and preservation of biodiversity and ecosystem services
Water Management	Investment in projects of maintenance of natural areas (and their eventual expansion) and preservation of biodiversity and ecosystem services
Energy Efficiency	Projects that increase energy efficiency, including actions to reduce fossil fuels consumption
Renewable Energy	Investments in projects that reduce greenhouse-gas emissions (GHG) through energy generation using renewable sources and/or the substitution of fossil fuels

Atlantic Forest in recovery in Neblinas Park (São Paulo state). Photo: Eliza Carneiro

10. Appendix B: Use of Proceeds

PROJECT CATEGORY	PROJECT	AMOUNT ALLOCATED (R$) 2015-2019
Water Management	Debottlenecking and modernization of Imperatriz Unit	135,787,630
Water Management	WWTP Mucuri	69,057,980
Water Management	WWTP Imperatriz	2,683,706
Energy Efficiency	WWTP Limeira	1,429,404
Sustainable Forestry	Sustainable Forestry - Restoration of degraded (leased) lands and conservation of natural ecosystems	7,899,311
Sustainable Forestry	Sustainable Forestry - Restoration of other private degraded lands and conservation of natural ecosystems	488,334
Conservation expenditures	Conservation expenditures – Maintenance and conservation of areas, fauna & flora, natural resources, studies and monitoring.	12,584,285
Sustainable Forestry	Sustainable management of forests with the adoption of best market practices (mosaic planting, ecological corridor, etc.) and certified by FSC®[4], PEFC/CERFLOR.	2,041,498,393
Sustainable Forestry	Social and environmental actions and certification audits focused on meeting the FSC® and PEFC/CERFLOR principles and criteria for the maintenance and expansion of our sustainable management	24,340,869
Total		**2,295,769,912**

4. Forest management certificates FSC-C110130, FSC-C118283, FSC-C100704, FSC-C009927 and FSC-C155943.



Tangará-dançarino
(Chiroxiphia caudata)
in Neblinas Park
(São Paulo state).
Photo: Mike May

11. Appendix C: External Auditor's Report

SUZANO PAPEL E CELULOSE

TYPE OF ENGAGEMENT: Annual Review
DATE: April 29, 2020
ENGAGEMENT TEAM: Zach Margolis, zach.margolis@sustainalytics.com, (+1) 647 695 4341
Winnie Toppo, winnie.toppo@sustainalytics.com, (+1) 647 317 3648

INTRODUCTION

In June 2016, Suzano Papel e Celulose ("Suzano") issued 500m USD in green bonds aimed at financing projects focused on sustainable forestry, conservation, water management, energy efficiency, and renewable energy. Suzano had a re-tap of the green bond in September 2017, raising an additional 200m USD. In April 2020, Suzano engaged Sustainalytics to review the projects funded through the issued green bonds and provide an assessment as to whether the projects met the Use of Proceeds criteria and the Reporting commitments outlined in the Suzano Green Bond Framework. This is Sustainalytics' third annual review of Suzano's 2016 and 2017 green bonds, following previous reviews in April 2018 and April 2019.

EVALUATION CRITERIA

Sustainalytics evaluated the projects and assets funded in 2019 based on whether the projects and programmes:

1. met the Use of Proceeds and Eligibility Criteria outlined in the Suzano Papel e Celulose S.A. Green Bond Framework; and

2. reported on at least one of the Key Performance Indicators (KPIs) for each Use of Proceeds criterion in the Suzano Papel e Celulose S.A. Green Bond Framework.

Table 1 lists the Use of Proceeds, Eligibility Criteria, and associated KPIs.

TABLE 1: USE OF PROCEEDS, ELIGIBILITY CRITERIA, AND ASSOCIATED KPIS

USE OF PROCEEDS	ELIGIBILITY CRITERIA	KEY PERFORMANCE INDICATORS (KPIS)
Sustainable Forestry	Sustainable management of forests that comply with national and international standards regarding the subject	Carbon stock in planted areas (tCO_2e)
		Continued maintenance of FSC® and PEFC/CERFLOR
	Recovery of native forest cover from degraded lands	Total land area with restoration in progress (hectares)
Conservation	Maintenance and development of conservation areas; protection of native plants and animal species and biodiversity	Total leased and owned land area with conserved native vegetation (hectares)
		Total leased and owned land area with conserved native vegetation/ total leased and owned land area (percent)
		Total leased and owned land area with conserved native vegetation/ total leased and owned planted land area (percent)
		Number of HCVAs identified and maintained
		Number of fauna species found in HCVAs
		Number of beneficiaries of environmental education programs
		Number of ecotourists at Parque das Neblinas
		Number of research studies developed at Parque das Neblinas
Water Management	Development of technologies and systems to increase quality of treated waste water, increase water reuse, and reduce water consumption	Reduction in fibre content in effluent (mg/L or percent)
		Reduction in Chemical Oxygen Demand or Biochemical Oxygen Demand (mg/L or percent)
		m^3 of water saved, reduced, or reused
Energy Efficiency	Projects that increase energy efficiency, including through reduction in fossil fuel consumption	h saved/reduced
		Tons of fossil fuel saved/reduced
		CO_2 emissions avoided
Renewable Energy	Substitution of fossil fuels with renewable sources and/or generation of energy from renewable sources	Tons of fossil fuel saved/reduced
		kWh produced
		CO_2 emissions avoided

ISSUING ENTITY'S RESPONSIBILITY

Suzano is responsible for providing accurate information and documentation relating to the details of the projects that have been funded, including description of projects, estimated and realized costs of projects, and project impact.

INDEPENDENCE AND QUALITY CONTROL

Sustainalytics, a leading provider of ESG and corporate governance research and ratings to investors, conducted the verification of Suzano's Green Bond Use of Proceeds. The work undertaken as part of this engagement included collection of documentation from Suzano employees and review of documentation to confirm the conformance with the Suzano Papel e Celulose S.A. Green Bond Framework.

Sustainalytics has relied on the information and the facts presented by Suzano with respect to the Nominated Projects. Sustainalytics is not responsible nor shall it be held liable if any of the opinions, findings, or conclusions it has set forth herein are not correct due to incorrect or incomplete data provided by Suzano.

Sustainalytics made all efforts to ensure the highest quality and rigor during its assessment process and enlisted its Sustainability Bonds Review Committee to provide oversight over the assessment of the review.

CONCLUSION

Based on the limited assurance procedures conducted,[1] nothing has come to Sustainalytics' attention that causes us to believe that, in all material respects, the reviewed bond projects, funded through proceeds of Suzano's Green Bond, are not in conformance with the Use of Proceeds and Reporting Criteria outlined in the Suzano Papel e Celulose S.A. Green Bond Framework. Suzano has disclosed to Sustainalytics that the proceeds of the green bond were fully allocated as of December 2019.

DETAILED FINDINGS

TABLE 2: DETAILED FINDINGS

ELIGIBILITY CRITERIA	PROCEDURE PERFORMED	FACTUAL FINDINGS	ERROR OR EXCEPTIONS IDENTIFIED
Use of Proceeds Criteria	Verification of the projects funded by the green bond in 2019 to determine if projects aligned with the Use of Proceeds Criteria outlined in the Suzano Papel e Celulose S.A. Green Bond Framework and above in Table 1.	All projects reviewed complied with the Use of Proceeds criteria.	None
Reporting Criteria	Verification of the projects funded by the green bond in 2019 to determine if impact of projects was reported in line with the KPIs outlined in the Suzano Papel e Celulose S.A. Green Bond Framework and above in Table 1. For a list of KPIs reported please refer to Appendix 1.	All projects reviewed reported on at least one KPI per Use of Proceeds criteria.	Nobe

1.Sustainalytics limited assurance process includes reviewing the documentation relating to the details of the projects that ha ve been funded, including description of projects, estimated and realized costs of projects, and project impact, which were provided by the Issuer. The Issuer is responsible for providing accurate information. Sustainalytics has not conducted on-site visits to projects.

APPENDIX 1: PROJECTS VERIFIED BY ELIGIBILITY CRITERIA

PROJECT CATEGORY	PROJECT	DESCRIPTION	AMOUNT ALLOCATED (BRAZILIAN REAL)	
			2015-2018[2]	2019
Water Management	Debottlenecking and modernization of Imperatriz Unit	Investment in retrofit and debottleneck at the Imperatriz Unit to increase production capacity and decrease the effluent load. This investment may also reduce the consumption of inputs such as sodium hydroxide from 16.5 kg to 15 kg/ADMT, hydrogen peroxide from 7 kg to 5 kg/ADMT, among others.	126,701,704	9,086,631
Water Management	WWTP Mucuri	Development of a new effluent treatment plant at the Mucuri Unit; which may reduce the organic matter load in the final effluent (BOD5) from an average of 67 mg/L to 27.5 mg/L.	67,907,801	1,150,976
Water Management	WWTP Imperatriz	Completion of the implementation of the ETS of the Imperatriz Unit.	2,683,706	0
Energy Efficiency	WWTP Limeira	Replacement of the waste stabilization pond aerators for a more energy efficient alternative	1,429,404	0
Sustainable Forestry	Sustainable Forestry - Recovery of degraded (leased) lands and conservation of natural ecosystems	The recovery project aims to restore areas that have been degraded over time, or that are in disagreement with the current environmental legislation, especially regarding areas newly acquired or leased properties (inherited liabilities and in most cases their restoration is not Suzano's legal responsibility). The recovery and conservation of natural areas does not only influence the maintenance of ecosystems but also promote the creation of natural enemies of pests that compromise flora species, groundwater recharge, soil protection, carbon capture and non-timber supply to extractive communities.	7,899,311	0
Sustainable Forestry	Sustainable Forestry - Recovery of other private degraded lands and conservation of natural ecosystems	The Mucuri Springs Project aims to foster/ boost the restoration chain in the Mucuri River Catchment region through partnerships with the main regional actors, local entities and communities. It also involves volunteering encouragement, technical capacitation and environmental education initiatives. These actions have a primarily educational focus and aim to stimulate producers in the region and the internal public to see forest restoration as a key factor for agricultural development. The recovery and conservation of natural areas not only influences the maintenance of ecosystems but also promotes the creation of natural enemies of pests that compromise flora species, groundwater recharge, soil protection, carbon capture and non-timber supply to extractive communities.	488,334	0

2. The annual review conducted by Sustainalytics in April 2019 includes the allocation amounts for the period 2015-2018.

PROJECT CATEGORY	PROJECT	DESCRIPTION	AMOUNT ALLOCATED (BRAZILIAN REAL)	
			2015-2018[2]	2019
Conservation expenditures	Conservation expenditures – Maintenance and conservation of areas, fauna & flora, natural resources, studies and monitoring.	The projects include: (1) maintenance and eventual expansion of preserved areas (following legal procedures); (2) monitoring of the remnants of great importance for conservation, aiming the increase in the number of species over time, identification of potential impacts and recommendations in favor of biodiversity conservation and ecosystem services; (3) periodic hydrological monitoring in Suzano's main microbasins, in order to assess physical and chemical conditions, qualitatively and quantitatively, to support environmental and forest management actions, aiming a higher sustainable productivity and mitigation of possible impacts; (4) environmental education actions and ecotourism through visits to preserved natural areas of Suzano or partners, aiming knowledge dissemination, skills and attitudes towards environmental and biodiversity preservation in order to promote scientific research and studies in this regard. In 2017, the "School of Heroes" program was included which works to raise social and environmental awareness among children and youth from municipal schools. It is a skill development course that supports the formation of important values for sustainability and citizenship.	12,584,285	0
Sustainable Forestry	Sustainable management of forests (FSC® and PEFC/CERFLOR).	Sustainable management of forests with the adoption of best market practices (mosaic planting, ecological corridor, etc.) and certified by FSC®, PEFC/CERFLOR or similar.	1,779,735,822	261,762,393
		Social and environmental actions and certification audits focused on meeting the FSC® and PEFC/CERFLOR principles and criteria for the maintenance and expansion of our sustainable management.	24,340,869	0
Total			2,023,771,236	272,000,000

APPENDIX 2: IMPACT REPORTING BY ELIGIBILITY CRITERIA

USE OF PROCEEDS	KPI REPORTED	ENVIRONMENTAL IMPACT[3]				
		2015	2016	2017	2018	2019
Sustainable Forestry						
Sustainable management of forests that comply with national and international standards regarding the subject	Carbon dioxide (CO_2) emissions avoided through planted forests	55,164,857.82 tCO_2e	54,831,925.56 tCO_2e	57,867,710.70 tCO_2e	70,464,382.51 tCO_2e	60,657,122.00 tCO_2e
Recovery of native forest cover from degraded lands	Total land area with restoration in progress (hectares)	5,503.12 ha	5,570.81 ha	5,886.00 ha	7,273.29 ha	2,291.30 ha
Conservation						
Maintenance and development of conservation areas; protection of native plants and animal species and biodiversity	Total leased and owned land area with conserved native vegetation (hectares)	479,345 ha	491,376 ha	538,168 ha	554,883 ha	571,386 ha
	Total leased and owned land area with conserved native vegetation/ total leased and owned land area (percent)	44.17% (of 1,085,299 ha total land area)	44.42% (of 1,106,317 ha total land area)	44.70% (of 1,203,177 ha total land area)	44.36% (of 1,250,966 ha total land area)	44.32% (of 1,289,115 ha total land area)
	Total leased and owned land area with conserved native vegetation/ total leased and owned planted land area (percent)	109.76% (of 436,725 ha total planted land area)	108.70% (of 452,048 ha total planted land area)	106.10% (of 507,048 ha total planted land area)	102.27% (of 542,561 ha total planted land area)	101.71% (of 561,789 ha total planted land area
	Number of HCVAs identified and maintained	30	27	31	33	34
	Number of species found in HCVAs	839	787	3,392	1,120	687
	Number of beneficiaries of environmental education programs	3,247	4,276	5,962	3,376	5,924
	Number of ecotourists at Neblinas Park	2,544	3,355	3,392	4,839	4,800
	Number of research studies developed at Neblinas Park	4	3	16	14	73

3. The impact metrics for 2016, 2017 and 2018 are reported based on impact generated until the end of each reporting period as some environmental impacts were created due to allocations made in previous years.

DISCLAIMER

The information, methodologies and opinions contained or reflected herein are proprietary of Sustainalytics and/or its third party suppliers (Third Party Data), and may be made available to third parties only in the form and format disclosed by Sustainalytics, or provided that appropriate citation and acknowledgement is ensured. They are provided for informational purposes only and (1) do not constitute an endorsement of any product or project; (2) do not constitute investment advice, financial advice or a prospectus; (3) cannot be interpreted as an offer or indication to buy or sell securities, to select a project or make any kind of business transactions; (4) do not represent an assessment of the issuer's economic performance, financial obligations nor of its creditworthiness; and/or (5) have not and cannot be incorporated into any offering disclosure.

These are based on information made available by the issuer and therefore are not warranted as to their merchantability, completeness, accuracy, up-to-dateness or fitness for a particular purpose. The information and data are provided "as is" and reflect Sustainalytics' opinion at the date of their elaboration and publication. Sustainalytics accepts no liability for damage arising from the use of the information, data or opinions contained herein, in any manner whatsoever, except where explicitly required by law. Any reference to third party names or Third Party Data is for appropriate acknowledgement of their ownership and does not constitute a sponsorship or endorsement by such owner. A list of our third-party data providers and their respective terms of use is available on our website. For more information, visit http://www.sustainalytics.com/legal-disclaimers.

The issuer is fully responsible for certifying and ensuring the compliance with its commitments, for their implementation and monitoring.

In case of discrepancies between the English language and translated versions, the English language version shall prevail.

SUSTAINALYTICS

Sustainalytics is a leading independent ESG and corporate governance research, ratings and analytics firm that supports investors around the world with the development and implementation of responsible investment strategies.

For over 25 years, the firm has been at the forefront of developing high-quality, innovative solutions to meet the evolving needs of global investors.

Today, Sustainalytics works with hundreds of the world's leading asset managers and pension funds who incorporate ESG and corporate governance information and assessments into their investment processes.

Sustainalytics also works with hundreds of companies and their financial intermediaries to help them consider sustainability in the policies, practices and capital projects. With 16 offices globally, Sustainalytics has more than 600 staff members, including over 200 analysts with varied multidisciplinary expertise across more than 40 industry groups. For more information, visit www.sustainalytics.com.

Contact

For questions and suggestions, please contact us through email **ri@suzano.com.br**

Forest mosaic in Mucuri (Bahia state) Photo: Ricardo Teles

Charles da Silva Gonçalves, Cutter Assistant. Limeira unit (São Paulo state). Photo: Ricardo Teles

suzano

suzano.com.br

investor relations: ir.suzano.com.br

linkedin: linkedin.com/company/suzano

instagram: instagram.com/suzano_oficial

youtube: youtube.com/Suzanovideos

facebook: fb.com/suzanoempresa