

## **BUNGE RESPONSE** SDG SDG<sub>2</sub> End hunger, As a leading agribusiness and food company, Bunge strives to be a shaper of sustainable practices within our achieve food sector. security and improved nutrition and We're more than 30,000 employees helping farmers produce sustainably. We deliver responsible ingredients, promote consumer foods, animal feed and renewable fuels. In operation for nearly 200 years, and working in more sustainable agriculture than 40 countries, our activities include: Origination and transport of oilseeds and grains from the world's primary growing regions to customers worldwide; Crushing oilseeds to make meal for the livestock industry and oil for the food processing, food service and biofuel industries; Producing bottled oils, mayonnaise, margarines and other staple food products for consumers; Milling wheat and corn for food processors, bakeries, brewers and other commercial customers; Crushing sugarcane to make sugar, renewable ethanol and electricity; Selling fertilizer to farmers. **Our Sustainability Pillars** We aim to build 21st Century Value Chains, free of deforestation and human rights issues, and which make positive contributions to economic wellbeing; address climate change through our own operations, by reducing deforestation and by enhancing the efficiency and resiliency of global trade; reduce our own environmental footprint; and act transparently and with world-class governance. Our philosophy is to "Act, Conserve and Engage." We intend to move, even when the path is not clearly marked; to find new ways to reduce our footprint; and to collaborate actively with other value chain participants and civil society. Read more at http://bunge.com/sustainability **Food Security** An expected surge in global population and the unpredictability of rainfall and other weather patterns due to climate change are making it necessary for agribusiness and food companies to plan for increased food production and less food waste, and to take measures to combat and manage the risks of climate change. Bunge is preparing to help feed 9.5 billion people by 2050 on several fronts: we are investing in new facilities; working to increase the efficiency and integration of our supply chains; promoting sustainable agriculture and striving to ensure resiliency to climate change in various regions of the world. Recently, we have invested in processing facilities in Europe and the Americas, improved our logistics assets and introduced new products.



**BUNGE RESPONSE SDG Partnerships** SDG<sub>2</sub> We are doing this work collaboratively, partnering with peers and civil society. Recently we helped create a End hunger, new collaboration platform called the Soft Commodity Forum, which is part of the World Business Council for achieve food security and Sustainable Development (WBCSD), a CEO-led organization working to galvanize businesses around the world improved to help create a sustainable future. We continue to partner with NGOs and regional consortia to promote nutrition and sustainable practices. You can read more about our efforts at http://bunge.com/sustainability/partnershipspromote sustainable and-projects and on our regional Web sites. agriculture **Responsible Sourcing** Bunge has supported The Nature Conservancy in a multi-year partnership in the Brazilian states of Pará, Mato Grosso and Bahia. Our \$5 million investment has promoted environmental registration among farmers via the CAR system, increased municipal governance, mapped impacts related to agriculture, produced instructional materials for producers, and developed tools for evaluating the best way for agriculture to expand sustainably. Specific achievements have included: Municipal Environmental Portals: the municipalities of Luís Eduardo Magalhães, São Desidério and Formosa do Rio Preto, in the West of Bahia, as well as Ruropolis and Itaituba (Para) have received a free online system that will help officials plan for sustainable agricultural expansion and monitor deforestation. Good Agricultural Practices Guide: a free online guide to help rural producers make their farms more sustainable by focusing on 13 simple and affordable agricultural techniques, which increase productivity and sustainability in the field. We have also sponsored and contributed to the development of Agroideal.org, an online tool for traders and other players in the soy sector that helps identify the best areas to invest in new production, sourcing, infrastructure and commercial activities. The tool's multiple data layers enable a clear vision, on actionable scales, of where soy can expand sustainably, with minimal social and environmental impacts. At the same time, entrepreneurs, governments, and others can use the same information to develop strategies and supportive policies for sustainable local development. It is an innovative system that allows customized analysis of data that, to date, has been unavailable or not integrated effectively. In the U.S., we have enhanced our Centerfield program, a online system, based on the Field to Market Fieldprint Calculator, which aggregates farmer environmental data, enabling them to compare their performance to peers and identify opportunities to improve sustainability. Information can also be shared with customers to promote more sustainable sourcing decisions. We prioritize the safety of our employees above profit and production. We also support diversity and professional development, engagement with all our stakeholders, local communities and the protection of human and labor rights in our value chain. See our labor policy at http://bunge.com/sustainability/labor.



SDG	BUNGE RESPONSE
SDG 4	
Ensure	
inclusive and	Community Development
equitable	
quality education and	Bunge participates in and sponsors activities that support the communities in which we operate around the
promote	world.
lifelong learning	
opportunities	Through the Fundacao Bunge, the company promotes responsible development and the assessment of social
for all	and economic needs in different Brazilian communities. The Fundacao has developed Integrated
	Management Plans, which provide guidelines for private social investment in collaboration with local leaders
AND	in the States of Tocantins and Pará (Brazil).
AND	
	Activities with non-governmental organizations, including Childhood, are fighting sexual exploitation of
SDG 8:	children by engaging with families and truck drivers.
Promote	
sustained,	Select locations are also targets for educational programs that support students in finding their first jobs.
inclusive and sustainable	Forums and public consultations have reached more than 300,000 people.
economic	
growth, full and	You can read more at http://www.fundacaobunge.org.br/en/projects/
productive	
employment	In the Southern Cone of South America, Bunge is investing to fight poverty through various programs. An
and decent work for all	example is the XXI Century Rural School, an educational program run by Fundación e.dúcate Uruguay. It is
WOLK TOT ALL	supported by Reaching U and sponsored by Bunge Southern Cone. It focuses on strengthening educational
	activities in the rural communities of Soriano Department. These organizations join forces to ensure the right
	to education among children and teenagers by deterring child labor. Other projects and latest news on social
	development for the region are available at http://www.bungeargentina.com.ar/en/ciudadania/responsable.
	Families living in farms face a range of safety risks, such as those associated with grain silos and tractors.
	Educating children about safety is one of the ways Bunge gives back to rural communities. Bunge North
	America Foundation is the lead sponsor of Progressive Agriculture Safety Days, which educates more than
	80,000 children and adults each year about how to stay safe and healthy on the farm, ranch or home. More
	information about this and other projects are publicly available at
	https://www.bungenorthamerica.com/about/citizenship



SDG	BUNGE RESPONSE							
	We engage in best practices to attract a richly diverse workforce and aim to include all voices in our							
SDG 5	operations. Our employee-training offerings are an investment in our workforce and the future of our							
Achieve gender	business.							
equality and empower all								
women and	Diversity & Inclusion							
girls	To sustain our future, better reflect the communities we serve and foster innovation, Bunge has developed a							
	multi-year global strategy to foster a more diverse and inclusive (D&I) workplace where each employee feels							
	valued and respected. Diversity and inclusion is the right thing to do, and it also increases employee retention, attracts top talent and improves business performance.							
	attracts top taleni	and improves business p	performanc	e.				
	We take proactive	measures to increase er	nnlovees' n	articination	and inclusion. We also examine comments			
	•			•	regular global employee engagement survey			
		•			ofessional viewpoints, we also aim for cross-			
	functional represe	entation on our internal t	eams. The	company ma	aintains a diversity council that serves as an			
	advisory board fo	r the company. It is made	up of emp	loyees who l	ead, advocate for, coordinate, inform, and			
	monitor the strate	egic diversity managemer	nt process.					
					siness Leaders group, whose mission is to			
	* *	• •			nd ethnicities with the goal of developing a			
		team that reflects the div e focused around:	ersity of th	e markets w	e serve and the communities in which we			
		e rocused around. ng and participating in op	nortunities	for diversity	recruitment			
	-		-	•	rs to encourage retention and professional			
	developr	•	0					
	- Fostering group interaction through professional events and community service activities that							
	complement Bunge's corporate exposure							
	Global Employee Statistics.							
	Global Employee Statistics.							
	2016							
		All Genders	Male	Female				
	All Operating Companies	34,101	27,682	6,419				
	Companies							
	2016							
		All Genders	Male	Female	Average Workforce Tenure			
	All Operating	7.4	7.5	6.9	riverage workjoree remare			
	Companies							
	2016							
		All Genders	Male	Female	Average Workforce Age			
	All Operating	38.7	39.1	37.4	,			
	Companies	30.1		J				



SDG BUNGE RESPONSE

### SDG 6 Ensure availability and sustainable management of water and sanitation for all

#### Water

Because water plays a central role in ag and food, and because access to safe, clean water is a UN-recognized human right, managing the limited availability of freshwater around the world is a central concern for the agribusiness and food sector. Agriculture is generally considered to use roughly 70% of the world's available freshwater. Trade in global agricultural commodities has been shown to reduce the total consumption of freshwater for ag production by nearly 10% per year.

### Assessing and managing water risk

Using the CEO Water Mandate's definitions, Bunge assesses water stress and water risk in watersheds or other areas where our facilities are located using:

- Internal company knowledge
- Regional government databases
- The WBCSD Global Water Tool<sup>©</sup> (GWT) and Aqueduct

A 2016 comprehensive analysis showed that Bunge operates 16 facilities we call "Tier 5" that are in areas of high water stress, are subject to increasing costs or regulatory burdens and source from the local area. Water risks at these facilities, on a standalone basis, are not substantive.

### Water Reduction Goals

During our latest three-year period for environmental goals, 2014-2016, we reduced water use/mt of production by 8%.

Our new goal is to reduce water use/mt of production by an additional 10% over the next ten years, while reducing use/mt by 25% in regions of high water stress.

#### Water Use

Direct Use: With the exception of sugarcane milling, which relies on freshwater for processing and, in some cases, irrigation of crops, Bunge's production facilities use water primarily for heating and cooling purposes, as well as certain production processes. Water is not a material ingredient in our principal products.

Indirect Use: Bunge sources agricultural commodities from thousands of independent farmers. The majority of suppliers do not use irrigation. Generally, data on water use has been closely held by farmers. The complexity of collecting and aggregating this information at scale is cost prohibitive. Bunge's diversified supply chain has a natural effect of mitigating the risk of impacts related to water. We are working in specific regions to improve data collection and water efficiency on farm.

Some of the farmers from whom we source are located in areas reliant on irrigation. A reduction in the availability of groundwater in these localities could impact the quantity of crops available for purchase. Bunge sources a significant amount of crops from regions employing rain fed production.

Our sugar production depends on the volume and sucrose content of the sugarcane that we cultivate or that is supplied to us by third-party growers. Both sugarcane crop yields and sucrose content depend significantly



SDG	BUNGE RESPONSE					
	on weather conditions, such as rainfall and prevailing temperatures. As such, unfavorable weather condit					
	have had and could in the future have a material adverse effect on our sugar operations. Our 8 facilities for					
	Sugar and Bioenergy segments are in areas of low water stress but are subject to higher degree					
	variability.					
SDG 6 Ensure	Water Withdrawal (megaliters/year), 2016					
availability and	Fresh surface water	44.426,83				
sustainable	Brackish surface water/seawater	23.694,63				
management of water and	Rainwater	0,00				
sanitation for all	Groundwater - renewable	0,00				
	Groundwater - non-renewable	14.003,94				
	Produced/process water	0,00				
	Municipal supply	9.797,46				
	Wastewater from another organization	0,00				
	Total	91.922,85				
	a guide for farmers in West Bahia, Brazil, an area practices for farmers in order to support watership Nature Conservancy. The guide is available at http.  We are also a founding member of Field to Market academics and government agencies committed in Field to Market has developed peer reviewed medetermining the environmental profile of crop prosustainability performance and developed an onlinidentify areas of improvement. The group is developed www.fieldtomarket.org  The company is also a member of Bonsucro, a gloethanol production. The Bonsucro standard include	bduction, issued national reports on agricultural ne tool for growers to assess their own operations and loping metrics on water quality and biodiversity.  bal certification body for sustainable sugar and sugarcane des parameters for water use per ton of product and the including wetlands, as well as for agronomic practices that				



SDG	BUNGE RESPONSE
SDG 7 Ensure access to affordable, reliable, sustainable and modern energy for all	We produce sugarcane products sustainably in Brazil, with two mills producing Bonsucro®- certified products. Our mills also produce sugarcane ethanol, an advanced biofuel, and run on bagasse, a renewable-energy byproduct of sugarcane processing. As a result, the plants generate carbon-neutral electricity. Surplus electricity is sold into the local power grid. In 2016, we sold 589,000 MWh, enough to meet the annual power needs of more than 300,000 households in Brazil.
SDG 12 Ensure sustainable consumption and production patterns	A notable recent achievement was our 16% reduction in waste disposal per metric ton of production between 2014 and 2016.  Looking ahead, we have a 10-year goal of reducing waste disposal/mt by an additional 10% and total waste generation/mt by 20%.
	In South America, where we operate a large consumer product business, we run programs aimed at reducing post consumption waste. The program, Soya Recicla, spans over 100 cities and more than 3,000 locations, including schools, supermarkets and restaurants. In 2016, around 845 ton of used cooking oil were collected, as well as 17.6 tons of PET packaging. Created in 2006, it is currently the largest voluntary used cooking oil collection program in the country, and has collected almost 5 million liters of used oil since its launch.



SDG	BUNGE RESPONSE
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SDG 13 Take urgent action to combat climate change and its impacts	Energy Use, Emissions and Climate  As an agribusiness and food company, Bunge seeks to support adaptation and resilience to climate change in our operations and supply chain by managing the origin location and diversity of crops we source; by reducing our own energy use and emissions in our operations; and by protecting forests.
Impacts	Emissions and Energy Reduction  Bunge has made meaningful progress in reducing our non-renewable energy use and emissions.
	Between 2014-2016, we reduced CO2 emission/mt of production by 8% and energy use/mt of production by 2%.
	We accomplished these reductions through the use of renewable energy and by implementing a variety of efficiency programs and investments.
	In 2016, we set a new, long-term goal of reducing emissions/mt of production by 10%, and, for the first time, have set emissions reduction goals for our logistics operations.
	Our efforts to reduce deforestation in our supply chains—we have committed to eliminating deforestation from our supply globally—also contributes to climate change mitigation.
	Managing climate change risks  Adverse weather conditions have historically caused volatility in the agricultural commodity industry and consequently in our operating results by causing crop failures or significantly reduced harvests, which may affect the supply and pricing of the agricultural commodities that we sell and use in our business, reduce demand for our fertilizer products and negatively affect the creditworthiness of agricultural producers who do business with us.
	The potential physical impacts of climate change are uncertain and may vary by region. These potential effects could include changes in rainfall patterns, water shortages, changing sea levels, changing storm patterns and intensities, and changing temperature levels that could adversely impact our costs and business operations, the location and costs of global agricultural commodity production and the supply and demand for agricultural commodities. These effects could be material to our results of operations, liquidity or capital resources.
	Public policy advocacy We seek to influence public policy on bioenergy through direct engagement with policy makers and participation in the trade associations of FEDIOL, ABIOVE and UNICA. We participate in the governance structure of all of these groups. Our engagement focuses on issues related to biofuel production, marketing, sustainability and trade. The company supports market based approaches to promoting economically and environmentally efficient first generation biofuels. We report avoided emissions to the CDP Climate Change program for our low-carbon products: ethanol, biofuel, biomass and bioelectricity.



SDG	BUNGE RESPONSE							
	Emissions and Energy Statistics							
SDG 13	Total Emissions (in metric tons)*							
Take urgent						2016		
action to combat climate	Direct CO <sub>2</sub> emissions from fuel use in facilities					1.66M metric tons		
change and its	Indirect CO <sub>2</sub>	emissions from	purchased ele	ctricity and st	team 1.72M metric tons no			
impacts					change			
	* Bunge collec	cts activity data	and calculates	Scope 1 and	Scope 2 emiss	sions u	sing the Brazil GHO	6 Protocol
	_						006), and the U.S. I	•
		· -				the A	rgentine Secretary	of Energy, and
	the Brazilian N	Ministry of Scien	ice and Techno	ology; and loca	al sources.			
	F C		4   6 2	B 414/L-1#				
		mption (Scope	1 and Scope 2,	wwn)*				
	Scope 1 Natural gas				7,382,751			1
	Gasoline				1,981			-
	Light oil				6,577			-
	Diesel				74,051			_
	Fuel oil/heav	v oil			59,366			-
	Shale oil	<del>/ -</del>			0			
		troleum gas (LP	G)		26,101			
	Wood or wo	od waste	·		1,607,373			-
	Seed hulls				860,822			-
	Other prima	ry solid biomass	;		596,736			
	Sugar cane w	vaste			9,273,540			
	Ethanol				22,859			
	Coal				836,616			
	Total direct e	energy consump	otion		20,506,069			
	Total electricity consumed (MWh)	Consumed electricity that is purchased	Total electricity produced	Total renewable electricity produced	is produc	ble that ed by	Comm	ent
		(MWh)	(MWh)	(MWh)	compa (MWł	-		
	2678305	2155705	1368331	1019485	436545		Renewable elect produced and co the plants with b gen in Brazil	nsumed in
					1			



### **SDG BUNGE RESPONSE HOW WE CONSERVE: Sustainable Agriculture** We are committed to Sustainable Agriculture and the creation of traceable, trustworthy 21st Century Value **SDG 15** chains. Our activities include: Protect, restore and promote sustainable use Enhancing the traceability of our supply chains and mapping suppliers in key areas of terrestrial Extending the Soy Moratorium in the Amazon Biome ecosystems, sustainably Blocking farmers in Brazil who violate labor and deforestation regulations manage forests, Certifying sugarcane mills under the Bonsucro system combat desertification, Launching public grievance and supplier verification mechanisms for palm oil and halt and Working with The Nature Conservancy and a coaltion of companies, NGOs and government agencies reverse land to develop open source tools to help identify areas for sustainable expansion of agriculture degradation Expanding volumes of certified products and halt biodiversity Partnering with The Forest Trust to improve the sustainability of the global palm oil industry and our loss own supply Participating in numerous multi-stakeholder groups committed to promoting sustainable agriculture, including Field to Market in the U.S. We disclosed our performance to the CDP Forests program for the first time in early 2016 **Non-Deforestation Commitments** Bunge believes all agricultural value chains should be free of deforestation, environmentally sustainable and economically beneficial to local communities. We established a comprehensive, NDPE sourcing policy for palm oil in 2014. Full information on our supply and activities can be found at <a href="http://www.bunge.com/sustainability/palm-oil-dashboard">http://www.bunge.com/sustainability/palm-oil-dashboard</a> For oilseeds and grains, we have a clear strategy of promoting traceability, sustainable expansion over suitable areas and proper incentives for conservation. Learn more and read our latest public updates at http://bunge.com/sustainability/zero-deforestation.



## **BUNGE RESPONSE SDG Transparency** Bunge is considered to be a good partner by stakeholders within our value chains, a professional team with **SDG 17** whom organizations can engage in dialogue around sustainability. We are respected for being honest about Strengthen the means of what we are doing and for reporting our progress in sustainability in a balanced way. implementation and revitalize **Public Reporting** the global partnership for We publicly disclose our efforts and progress through several sustainability reporting mechanisms, including sustainable through the Global Reporting Initiative (GRI) framework, and through CDP programs. development Sustainability reports Bunge issued our first global Citizenship report in 2008. Bunge's 2014 Citizenship Report was our first GRIbased report at the global level, and the 2016 edition was our first global report in compliance with the Core indicators of the GRI G4 framework. We have been reporting on sustainability at the regional level longer: Bunge Brazil released its fourteenth report this year — its fourth GRI Comprehensive report. Bunge Southern Cone, which has been reporting on its performance since 2009, published a 3<sup>rd</sup> party audited GRI standard report for operations in Argentina, Uruguay, Paraguay and Bolivia this year. Bunge North America also published its Citizenship report with information on our performance in Canada, USA and Mexico. CDP programs & the CEO Water Mandate Bunge discloses its sustainability performance via the CDP Water, CDP Climate Change and, for the first time in 2016, CDP Forests programs. In 2015, we became a signatory to the CEO Water Mandate. Charters and Principles Bunge belongs or is a signatory to several charters and principle frameworks, including the <u>UN Global</u> Compact and Brazil's Soy Moratorium. Read more at http://bunge.com/sustainability/reports-and-governance. **Member Organizations** Bunge is a member of the following organizations, all of which are working toward a more sustainable agribusiness and food industry. ABIOVE (Brazilian Association of Vegetable Oils Industries) Bonsucro, Board participation (2013–2016); chair in 2015/16 FEDIOL (Federation representing the European Vegetable Oil and Protein meal Industry in Europe), Board presidency in 2016 Field to Market: consortium of industry, grower groups, NGOs, academics and government agencies committed to improving the sustainability of production agriculture. **UNICA** World Business Council on Sustainable Development (WBCSD)

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SDG	BUNGE RESPONSE
Anti-corruption	Bunge operates a robust ethics and compliance function that oversees corruption issues. We also operate a
	public whistleblower hotline and sustainability grievance mechanism.
	Lear more at <a href="http://bunge.com/investors/code-conduct">http://bunge.com/investors/report-concern</a> ,