

Harvest update of South-Central region

Bi-weekly bulletin

Position until 01/01/2021



UNIÃO DA INDÚSTRIA DE CANA-DE-AÇÚCAR

ETANOL • AÇÚCAR • ENERGIA

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Table 1. 2020/2021 harvest season: accumulated production until January 1, 2021

Product	South-Central region			São Paulo			Others states		
	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)
Sugarcane ¹	579,086	597,360	↑ 3.16%	339,096	354,802	↑ 4.63%	239,991	242,558	↑ 1.07%
Sugar ¹	26,483	38,195	↑ 44.22%	18,358	26,274	↑ 43.13%	8,126	11,921	↑ 46.71%
Anhydrous ethanol ²	9,851	9,586	↓ -2.70%	5,785	5,255	↓ -9.17%	4,066	4,331	↑ 6.51%
Hydrous ethanol ²	22,296	19,711	↓ -11.60%	10,556	9,081	↓ -13.97%	11,740	10,629	↓ -9.46%
Total ethanol ²	32,147	29,296	↓ -8.87%	16,341	14,336	↓ -12.27%	15,806	14,960	↓ -5.35%
TRS ¹	80,603	86,730	↑ 7.60%	47,079	51,987	↑ 10.43%	33,524	34,742	↑ 3.64%
TRS/ ton of sugarcane ³	139.19	145.19	↑ 4.31%	138.84	146.53	↑ 5.54%	139.69	143.23	↑ 2.54%
Share % sugar	34.48%	46.22%	↑	40.92%	53.04%	↑	25.44%	36.01%	↑
ethanol	65.52%	53.78%	↓	59.08%	46.96%	↓	74.56%	63.99%	↓
Liters of ethanol/ ton of sugarcane	53.69	45.92	↓ -14.46%	48.19	40.41	↓ -16.16%	61.46	54.00	↓ -12.14%
Kg of sugar/ ton of sugarcane	45.73	63.94	↑ 39.81%	54.14	74.05	↑ 36.79%	33.86	49.15	↑ 45.15%

Table 2. 2020/2021 harvest season: BI-WEEKLY values (2nd two-week period of December, 2020)

Product	South-Central region			São Paulo			Others states		
	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)
Sugarcane ¹	733	453	↓ -38.16%	161	24	↓ -85.41%	572	430	↓ -24.86%
Sugar ¹	13	11	↓ -13.68%	4	0	↓ -99.90%	9	11	↑ 25.13%
Anhydrous ethanol ²	53	40	↓ -24.38%	23	-4	↓ -119.20%	30	44	↑ 50.10%
Hydrous ethanol ²	85	106	↑ 25.94%	-12	8	↓ -166.00%	96	99	↑ 2.73%
Total ethanol ²	137	146	↑ 6.60%	12	3	↓ -72.23%	126	143	↑ 13.86%
TRS ¹	95	69	↓ -26.81%	25	5	↓ -79.98%	69	64	↓ -7.35%
TRS/ ton of sugarcane ³	128.94	152.61	↑ 18.36%	157.28	215.76	↑ 37.18%	120.96	149.15	↑ 23.31%
Share % sugar	14.37%	16.94%	↑	16.64%	0.08%	↓	13.53%	18.28%	↑
ethanol	85.63%	83.06%	↓	83.36%	99.92%	↑	86.47%	81.72%	↓
Liters of ethanol/ ton of sugarcane	63.99	74.10	↑ 15.80%	71.94	136.89	↑ 90.30%	61.75	70.67	↑ 14.43%
Kg of sugar/ ton of sugarcane	17.65	24.64	↑ 39.59%	24.94	0.17	↓ -99.32%	15.60	25.97	↑ 66.54%

Source: UNICA. Note: ¹- thousand tons; ²- million liters; ³- kg of TRS/ ton of sugarcane. Total Recoverable Sugar (TRS) index was calculated excluding corn ethanol production (the data are those shown in Table 8).

Table 3. Bi-weekly sugarcane crushing, ACCUMULATED - results for the South-Central region

Bi-weekly period	SUGARCANE (tons)								
	São Paulo			South-Central region			Others states		
	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)
16/04	6,569,258	13,617,049	107%	13,899,536	22,510,291	62%	7,330,278	8,893,242	21%
01/05	25,179,709	37,969,735	51%	45,628,290	60,701,136	33%	20,448,581	22,731,401	11%
16/05	49,140,141	64,724,605	32%	84,668,602	103,038,835	22%	35,528,461	38,314,230	8%
01/06	75,569,695	90,611,341	20%	128,974,836	145,462,972	13%	53,405,141	54,851,631	3%
16/06	100,383,119	115,684,179	15%	171,529,400	187,274,089	9%	71,146,281	71,589,910	1%
01/07	128,093,735	140,793,668	10%	218,054,004	230,389,899	6%	89,960,269	89,596,231	0%
16/07	151,328,006	168,430,617	11%	259,055,782	277,144,202	7%	107,727,776	108,713,585	1%
01/08	180,755,489	198,524,550	10%	308,959,753	327,983,874	6%	128,204,264	129,459,324	1%
16/08	205,662,798	225,954,441	10%	351,820,605	374,563,603	6%	146,157,807	148,609,162	2%
01/09	234,145,411	251,300,957	7%	399,790,851	416,811,187	4%	165,645,440	165,510,230	0%
16/09	257,228,569	277,373,078	8%	439,398,577	461,482,922	5%	182,170,008	184,109,844	1%
01/10	277,821,500	301,059,813	8%	474,603,493	501,865,802	6%	196,781,993	200,805,989	2%
16/10	301,019,439	322,664,494	7%	512,225,407	538,851,788	5%	211,205,968	216,187,294	2%
01/11	320,728,208	338,954,795	6%	545,006,184	565,783,274	4%	224,277,976	226,828,479	1%
16/11	332,126,557	350,341,913	5%	564,897,942	586,142,044	4%	232,771,385	235,800,131	1%
01/12	337,834,661	354,184,781	5%	575,777,896	594,877,839	3%	237,943,235	240,693,058	1%
16/12	338,934,750	354,778,300	5%	578,353,403	596,906,948	3%	239,418,653	242,128,648	1%
01/01	339,095,769	354,801,800	5%	579,086,444	597,360,238	3%	239,990,675	242,558,438	1%
16/01	339,105,940			579,214,045			240,108,105		
01/02	339,115,761			579,300,846			240,185,085		
16/02	339,115,761			579,471,266			240,355,505		
01/03	339,115,761			579,929,722			240,813,961		
16/03	340,012,241			582,885,596			242,873,355		
01/04	343,750,456			590,360,866			246,610,410		

Source: UNICA.

Table 4. Bi-weekly sugar production, ACCUMULATED - results for the South-Central region

Bi-weekly period	SUGAR (tons)								
	São Paulo			South-Central region			Others states		
	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)
16/04	189,162	627,659	232%	340,097	971,453	186%	150,935	343,794	128%
01/05	896,261	2,077,035	132%	1,382,273	3,004,807	117%	486,012	927,772	91%
16/05	2,041,606	3,841,295	88%	2,986,824	5,490,043	84%	945,218	1,648,748	74%
01/06	3,356,861	5,617,360	67%	4,857,487	8,047,084	66%	1,500,626	2,429,724	62%
16/06	4,638,645	7,400,975	60%	6,727,704	10,606,917	58%	2,089,059	3,205,942	53%
01/07	6,189,207	9,271,538	50%	8,939,510	13,345,135	49%	2,750,303	4,073,597	48%
16/07	7,494,584	11,348,752	51%	10,881,625	16,375,221	50%	3,387,041	5,026,469	48%
01/08	9,225,125	13,709,952	49%	13,362,564	19,815,032	48%	4,137,439	6,105,080	48%
16/08	10,690,136	15,919,032	49%	15,492,231	23,051,327	49%	4,802,095	7,132,295	49%
01/09	12,449,046	17,987,129	44%	18,013,596	25,985,169	44%	5,564,550	7,998,040	44%
16/09	13,841,811	20,163,089	46%	20,051,912	29,189,150	46%	6,210,101	9,026,061	45%
01/10	15,095,905	22,127,067	47%	21,849,093	32,054,841	47%	6,753,188	9,927,774	47%
16/10	16,476,211	23,918,078	45%	23,762,724	34,675,789	46%	7,286,513	10,757,711	48%
01/11	17,554,292	25,116,551	43%	25,281,196	36,413,772	44%	7,726,904	11,297,221	46%
16/11	18,097,383	25,968,633	43%	26,072,269	37,667,402	44%	7,974,886	11,698,769	47%
01/12	18,329,581	26,232,810	43%	26,420,262	38,093,386	44%	8,090,681	11,860,576	47%
16/12	18,353,528	26,274,271	43%	26,470,438	38,184,246	44%	8,116,910	11,909,975	47%
01/01	18,357,544	26,274,275	43%	26,483,375	38,195,413	44%	8,125,831	11,921,138	47%
16/01	18,357,544			26,487,649			8,130,105		
01/02	18,357,544			26,491,297			8,133,753		
16/02	18,357,544			26,493,805			8,136,261		
01/03	18,357,544			26,493,805			8,136,261		
16/03	18,381,140			26,534,637			8,153,497		
01/04	18,515,133			26,761,354			8,246,221		

Source: UNICA.

Table 5. Bi-weekly ethanol production, ACCUMULATED - results for the South-Central region

Bi-weekly period	ETHANOL TOTAL (m³)								
	São Paulo			South-Central region			Others states		
	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)
16/04	300,908	516,905	72%	739,915	986,225	33%	439,007	469,320	7%
01/05	1,071,889	1,393,845	30%	2,239,177	2,589,975	16%	1,167,288	1,196,130	2%
16/05	2,054,503	2,396,738	17%	4,051,880	4,418,199	9%	1,997,377	2,021,461	1%
01/06	3,201,144	3,381,407	6%	6,220,817	6,238,633	0%	3,019,673	2,857,226	-5%
16/06	4,295,560	4,320,899	1%	8,348,126	8,085,023	-3%	4,052,566	3,764,124	-7%
01/07	5,533,683	5,281,007	-5%	10,708,776	10,052,265	-6%	5,175,093	4,771,258	-8%
16/07	6,604,755	6,321,437	-4%	12,885,597	12,187,996	-5%	6,280,842	5,866,559	-7%
01/08	7,976,935	7,500,336	-6%	15,549,740	14,605,113	-6%	7,572,805	7,104,777	-6%
16/08	9,199,449	8,605,914	-6%	17,964,942	16,890,379	-6%	8,765,493	8,284,465	-5%
01/09	10,624,449	9,669,324	-9%	20,699,826	19,068,797	-8%	10,075,377	9,399,473	-7%
16/09	11,825,199	10,772,174	-9%	23,104,007	21,389,896	-7%	11,278,808	10,617,722	-6%
01/10	12,921,154	11,824,518	-8%	25,339,586	23,563,745	-7%	12,418,432	11,739,227	-5%
16/10	14,148,696	12,817,296	-9%	27,638,706	25,637,064	-7%	13,490,010	12,819,768	-5%
01/11	15,247,906	13,580,630	-11%	29,698,726	27,149,409	-9%	14,450,820	13,568,779	-6%
16/11	15,913,226	14,111,985	-11%	31,003,391	28,323,789	-9%	15,090,165	14,211,804	-6%
01/12	16,256,971	14,297,893	-12%	31,760,884	28,919,201	-9%	15,503,913	14,621,308	-6%
16/12	16,329,768	14,332,758	-12%	32,010,226	29,150,033	-9%	15,680,458	14,817,275	-6%
01/01	16,341,351	14,335,975	-12%	32,147,498	29,296,365	-9%	15,806,147	14,960,390	-5%
16/01	16,343,601			32,243,133			15,899,532		
01/02	16,346,150			32,346,308			16,000,158		
16/02	16,348,975			32,449,978			16,101,003		
01/03	16,350,656			32,559,416			16,208,760		
16/03	16,389,013			32,802,741			16,413,728		
01/04	16,544,705			33,258,355			16,713,650		

Source: UNICA.

Table 6. Bi-weekly anhydrous ethanol production, ACCUMULATED - results for the South-Central region

Bi-weekly period	ANHYDROUS ETHANOL (m ³)								
	São Paulo			South-Central region			Others states		
	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)
16/04	40,634	119,256	193%	74,239	178,515	140%	33,605	59,259	76%
01/05	229,490	389,273	70%	393,623	615,913	56%	164,133	226,640	38%
16/05	582,440	695,175	19%	954,867	1,119,859	17%	372,427	424,684	14%
01/06	1,016,699	1,010,294	-1%	1,680,103	1,665,045	-1%	663,404	654,751	-1%
16/06	1,446,496	1,329,445	-8%	2,418,241	2,228,565	-8%	971,745	899,120	-7%
01/07	1,918,114	1,648,180	-14%	3,233,200	2,824,863	-13%	1,315,086	1,176,683	-11%
16/07	2,327,195	2,014,511	-13%	3,957,485	3,498,347	-12%	1,630,290	1,483,836	-9%
01/08	2,813,625	2,420,111	-14%	4,794,322	4,238,815	-12%	1,980,697	1,818,704	-8%
16/08	3,233,339	2,796,519	-14%	5,526,032	4,958,051	-10%	2,292,693	2,161,532	-6%
01/09	3,722,954	3,155,068	-15%	6,327,144	5,618,863	-11%	2,604,190	2,463,795	-5%
16/09	4,129,115	3,542,132	-14%	7,010,930	6,368,433	-9%	2,881,815	2,826,301	-2%
01/10	4,490,914	3,986,764	-11%	7,625,954	7,151,004	-6%	3,135,040	3,164,240	1%
16/10	4,895,381	4,411,867	-10%	8,314,508	7,912,879	-5%	3,419,127	3,501,012	2%
01/11	5,281,709	4,776,082	-10%	8,957,479	8,550,532	-5%	3,675,770	3,774,450	3%
16/11	5,548,972	5,044,246	-9%	9,384,606	9,051,989	-4%	3,835,634	4,007,743	4%
01/12	5,711,343	5,211,227	-9%	9,682,002	9,403,587	-3%	3,970,659	4,192,360	6%
16/12	5,761,864	5,259,054	-9%	9,798,545	9,545,683	-3%	4,036,681	4,286,629	6%
01/01	5,785,074	5,254,597	-9%	9,851,306	9,585,583	-3%	4,066,232	4,330,986	7%
16/01	5,781,549			9,878,294			4,096,745		
01/02	5,769,084			9,885,393			4,116,309		
16/02	5,733,952			9,884,336			4,150,384		
01/03	5,709,836			9,869,482			4,159,646		
16/03	5,683,885			9,866,647			4,182,762		
01/04	5,708,268			9,945,683			4,237,415		

Source: UNICA.

Table 7. Bi-weekly hydrous ethanol production, ACCUMULATED - results for the South-Central region

Bi-weekly period	HYDROUS ETHANOL (m ³)								
	São Paulo			South-Central region			Others states		
	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)	2019/2020	2020/2021	Var. (%)
16/04	260,274	397,649	53%	665,676	807,710	21%	405,402	410,061	1%
01/05	842,399	1,004,572	19%	1,845,554	1,974,062	7%	1,003,155	969,490	-3%
16/05	1,472,063	1,701,563	16%	3,097,013	3,298,340	7%	1,624,950	1,596,777	-2%
01/06	2,184,445	2,371,113	9%	4,540,714	4,573,588	1%	2,356,269	2,202,475	-7%
16/06	2,849,064	2,991,454	5%	5,929,885	5,856,458	-1%	3,080,821	2,865,004	-7%
01/07	3,615,569	3,632,827	0%	7,475,576	7,227,402	-3%	3,860,007	3,594,575	-7%
16/07	4,277,560	4,306,926	1%	8,928,112	8,689,649	-3%	4,650,552	4,382,723	-6%
01/08	5,163,310	5,080,225	-2%	10,755,418	10,366,298	-4%	5,592,108	5,286,073	-5%
16/08	5,966,110	5,809,395	-3%	12,438,910	11,932,328	-4%	6,472,800	6,122,933	-5%
01/09	6,901,495	6,514,256	-6%	14,372,682	13,449,934	-6%	7,471,187	6,935,678	-7%
16/09	7,696,084	7,230,042	-6%	16,093,077	15,021,463	-7%	8,396,993	7,791,421	-7%
01/10	8,430,240	7,837,754	-7%	17,713,632	16,412,741	-7%	9,283,392	8,574,987	-8%
16/10	9,253,315	8,405,429	-9%	19,324,198	17,724,185	-8%	10,070,883	9,318,756	-7%
01/11	9,966,197	8,804,548	-12%	20,741,247	18,598,877	-10%	10,775,050	9,794,329	-9%
16/11	10,364,254	9,067,739	-13%	21,618,785	19,271,800	-11%	11,254,531	10,204,061	-9%
01/12	10,545,628	9,086,666	-14%	22,078,882	19,515,614	-12%	11,533,254	10,428,948	-10%
16/12	10,567,904	9,073,704	-14%	22,211,681	19,604,350	-12%	11,643,777	10,530,646	-10%
01/01	10,556,277	9,081,378	-14%	22,296,192	19,710,782	-12%	11,739,915	10,629,404	-9%
16/01	10,562,052			22,364,839			11,802,787		
01/02	10,577,066			22,460,915			11,883,849		
16/02	10,615,023			22,565,642			11,950,619		
01/03	10,640,820			22,689,934			12,049,114		
16/03	10,705,128			22,936,094			12,230,966		
01/04	10,836,437			23,312,672			12,476,235		

Source: UNICA.

Table 8. Accumulated and bi-weekly corn ethanol production in 2020/2021 harvest season - results for the South-Central region

Bi-weekly period	BI-WEEKLY values			ACCUMULATED values		
	a. Anhydrous ethanol	b. Hydrous ethanol	Total a+b	a. Anhydrous ethanol	b. Hydrous ethanol	Total a+b
16/04	20,896	65,400	86,296	20,896	65,400	86,296
01/05	44,341	67,717	112,058	65,237	133,117	198,354
16/05	21,536	73,501	95,037	86,773	206,618	293,391
01/06	12,448	44,923	57,371	99,221	251,541	350,762
16/06	16,598	50,935	67,533	115,819	302,476	418,295
01/07	31,273	57,359	88,632	147,092	359,835	506,927
16/07	28,219	71,224	99,443	175,311	431,059	606,370
01/08	20,610	88,056	108,666	195,921	519,115	715,036
16/08	26,422	66,124	92,546	222,343	585,239	807,582
01/09	26,662	85,557	112,219	249,005	670,796	919,801
16/09	45,558	74,520	120,078	294,563	745,316	1,039,879
01/10	37,874	79,627	117,501	332,437	824,943	1,157,380
16/10	40,382	81,916	122,298	372,819	906,859	1,279,678
01/11	24,988	102,973	127,961	397,807	1,009,832	1,407,639
16/11	31,470	83,058	114,528	429,277	1,092,890	1,522,167
01/12	40,164	75,715	115,879	469,441	1,168,605	1,638,046
16/12	22,064	90,336	112,400	491,505	1,258,941	1,750,446
01/01	24,070	88,673	112,743	515,575	1,347,614	1,863,189
16/01						
01/02						
16/02						
01/03						
16/03						
01/04						

Source: UNICA.

Table 9. Ethanol sales by mills in South-Central region, per ethanol type and destination (m³).

Product	Month	Total		External market		Domestic market	
		2019/2020	2020/2021	2019/2020	2020/2021	2019/2020	2020/2021
Total ethanol	Apr	2,511,161	1,812,065	54,865	75,163	2,456,296	1,736,902
	May	3,028,753	2,207,601	138,476	151,118	2,890,277	2,056,483
	Jun	2,709,939	2,419,564	185,054	265,703	2,524,885	2,153,861
	Jul	2,943,774	2,701,790	222,253	306,783	2,721,521	2,395,007
	Aug	3,100,886	2,718,632	288,211	302,346	2,812,675	2,416,286
	Sep	2,935,733	2,892,517	199,626	342,799	2,736,107	2,549,718
	Oct	3,121,884	3,049,777	227,536	358,018	2,894,348	2,691,759
	Nov	2,847,663	2,732,552	143,814	240,529	2,703,849	2,492,023
	Dec	2,805,762	2,779,627	120,559	170,065	2,685,203	2,609,562
	Jan	2,556,867		63,746		2,493,121	
	Feb	2,405,380		120,787		2,284,593	
	Mar	2,315,577		148,619		2,166,958	
	Total		26,005,555	23,314,125	1,580,394	2,212,524	24,425,161
Anhydrous ethanol	Apr	665,424	529,227	50,542	30,036	614,882	499,191
	May	928,442	652,028	121,817	61,319	806,625	590,709
	Jun	815,297	769,435	118,728	104,698	696,569	664,737
	Jul	909,323	952,359	151,706	183,253	757,617	769,106
	Aug	1,033,925	925,978	217,835	129,915	816,090	796,063
	Sep	866,350	984,480	127,280	188,030	739,070	796,450
	Oct	896,801	992,089	142,527	191,604	754,274	800,485
	Nov	854,600	912,031	93,010	90,711	761,590	821,320
	Dec	840,362	900,285	30,393	41,336	809,969	858,949
	Jan	771,869		39,000		732,869	
	Feb	819,283		82,466		736,817	
	Mar	858,186		81,654		776,532	
	Total		7,810,524	7,617,912	1,053,838	1,020,902	6,756,686
Hydrous ethanol	Apr	1,845,737	1,282,838	4,323	45,127	1,841,414	1,237,711
	May	2,100,311	1,555,573	16,659	89,799	2,083,652	1,465,774
	Jun	1,894,642	1,650,129	66,326	161,005	1,828,316	1,489,124
	Jul	2,034,451	1,749,431	70,547	123,530	1,963,904	1,625,901
	Aug	2,066,961	1,792,654	70,376	172,431	1,996,585	1,620,223
	Sep	2,069,383	1,908,037	72,346	154,769	1,997,037	1,753,268
	Oct	2,225,083	2,057,688	85,009	166,414	2,140,074	1,891,274
	Nov	1,993,063	1,820,521	50,804	149,818	1,942,259	1,670,703
	Dec	1,965,400	1,879,342	90,166	128,729	1,875,234	1,750,613
	Jan	1,784,998		24,746		1,760,252	
	Feb	1,586,097		38,321		1,547,776	
	Mar	1,457,391		66,965		1,390,426	
	Total		18,195,031	15,696,213	526,556	1,191,622	17,668,475

Source: UNICA.

Data released in this report has been compiled and analyzed by UNICA, with figures provided by mills and by the following associations of producers from South-Central states:

- *Ethanol and sugar producers association in the state of Paraná (Alcopar);*
- *Bioenergy producers association of Mato Grosso do Sul (Biosul);*
- *Sugar and ethanol industries association in the state of Minas Gerais (SIAMIG);*
- *Association of ethanol industry of Goiás state (SIFAEG);*
- *Sugar and ethanol industry association of Mato Grosso (SINDALCOOL);*
- *Plants and distilleries society of Espírito Santo state (SUDES);*
- *Ethanol and sugar industry association of Rio de Janeiro (SISERJ).*

Data regarding weather and agricultural conditions has been provided by the Center for Sugarcane Technology (CTC).

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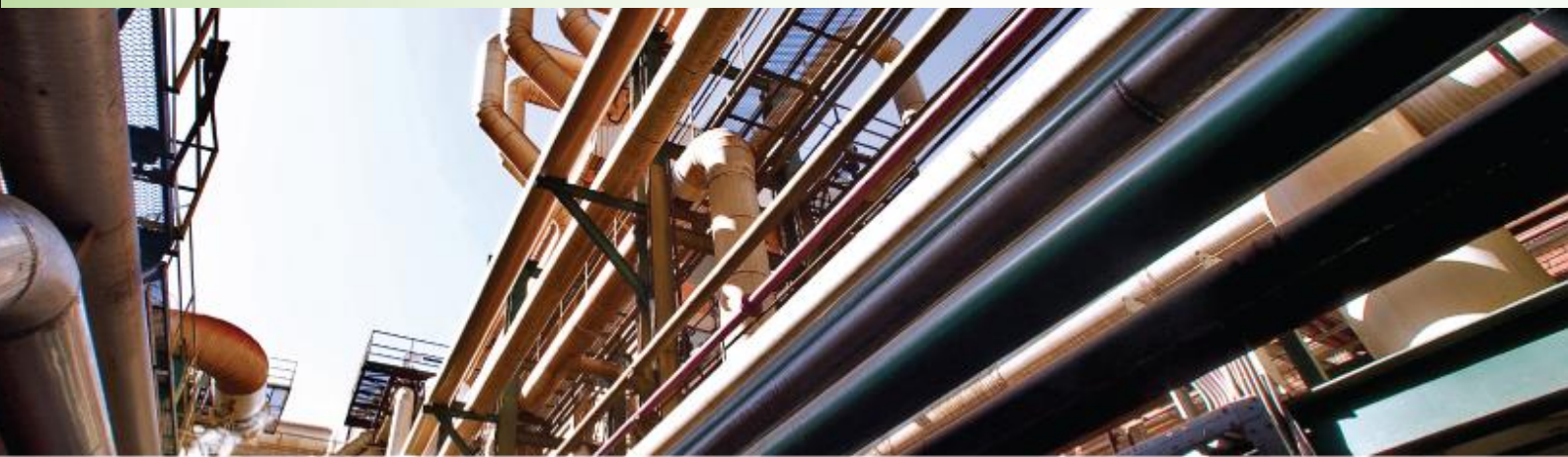
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SIAMIG
BIOENERGIA - ETANOL - AÇÚCAR
Associação das Indústrias Sucroenergéticas de Minas Gerais



SINDALCOOL/MT
SINDICATO DAS INDÚSTRIAS SUCROALCOOLEIRAS
DO ESTADO DE MATO GROSSO

SISERJ

Sindicato da Indústria Sucroenergética
do Estado do Rio de Janeiro

SIFAEG

SINDICATO DA INDÚSTRIA DE FABRICAÇÃO
DE ETANOL DO ESTADO DE GOIÁS
GOIÁS ETHANOL INDUSTRY ASSOCIATION

SIFAÇUCAR

SINDICATO DA INDÚSTRIA DE FABRICAÇÃO
DE AÇÚCAR DO ESTADO DE GOIÁS
GOIÁS SUGAR INDUSTRY ASSOCIATION

SUDES