

## 2021 AIST DRI and HBI Roundup

AIST Roundup data is based on information submitted in the third quarter of 2020.

Company and location	Start-up year	Module	Rated capacity MTPA	Technology	Product type	CO <sub>2</sub> removal	Typical product metallization, %	Typical product carbon, %	Product use
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### Argentina

<b>ArcelorMittal Acindar SA</b> Villa Constitucion, Santa Fe	1978	1	0.60	Midrex	CDRI	No	94.0	2.5	Captive
<b>Tenaris Siderca</b> Siderca Seamless Tubes Mill Campana, Buenos Aires	1976	1	0.61	Midrex	CDRI	No	95.0	2.4	Captive

### Brazil

<b>Gerdau</b> Usiba Salvador, Bahia	1991	1*	0.30	HYL III	CDRI	Yes	93.0	2.8	Captive
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### Canada

<b>ArcelorMittal Montreal</b> Contrecoeur, Que.	1973	I	0.40	Midrex	CDRI	No	94.7	2.2	Captive
	1977	II	0.60	Midrex	CDRI	No	94.8	2.2	Captive

### Germany

<b>ArcelorMittal</b> Hamburg	1971	—	0.4	Midrex	CDRI	No	95	2.2	Captive
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### Mexico

<b>ArcelorMittal Lázaro Cárdenas</b> Lázaro Cárdenas, Mich.	1997	I	1.20	Midrex	CDRI	No	95.0	2.5	Captive
	1988	II A	0.50	HYL III	CDRI	Yes	94.0	2.6	Captive
	1988	II B	0.50	HYL III	CDRI	Yes	94.0	2.6	Captive
	1991	III A	0.50	HYL III	CDRI	Yes	94.0	2.6	Captive
	1991	III B	0.50	HYL III	CDRI	Yes	94.0	2.6	Captive
<b>Ternium Mexico S.A. de C.V.</b> Puebla, Pue. Monterrey, N.L.	1995	2P5	0.93	HYL III	CDRI	Yes	94.2	3.0	Captive
	1983	3M5	0.78	HYL-ZR	CDRI	Yes	94.5	3.8	Captive
		4M	0.95	HYL-ZR	HDRI	Yes	94.8	3.8	Captive

### Russia

<b>JSC Lebedinsky GOK</b> Gubkin, Belgorod Oblast	1999	I	0.9	HYL	HBI	Yes	94	1.2	Merchant
	2007	2	1.4	Midrex	HBI	No	94	1.4	Merchant
	2017	3	1.8	Midrex	HBI	No	94	1.4	Merchant
<b>OEMK</b> Stary Oskol, Belgorod Oblast	1983	I	0.4	Midrex	CDRI	No	94	2.3	Captive
	1985	II	0.4	Midrex	CDRI	No	94	2.3	Captive
	1985	III	0.4	Midrex	CDRI	No	94	2.3	Captive
	1987	IV	0.4	Midrex	CDRI	No	94	2.3	Captive

\*idle

CDRI = cold direct reduced iron; HBI = hot briquetted iron; HDRI = hot direct reduced iron

Interested in becoming a member of the AIST DRI Technology Committee? Contact Anna Voss at [avoss@aist.org](mailto:avoss@aist.org).

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<b>ArcelorMittal Point Lisas</b> Point Lisas (idle)	1980	I*	0.42	Midrex	CDRI	No	—	—	Captive
	1982	II*	0.42	Midrex	CDRI	No	—	—	Captive
	1999	III*	1.36	Midrex	CDRI	No	—	—	Merchant
<b>Nu-Iron Unlimited</b> Point Lisas	2006	1	1.60	Midrex	CDRI	No	96.5	2.7	Merchant

### Trinidad and Tobago

### United States

<b>Nucor Steel Louisiana LLC</b> Convent, La.	2013	1	2.50	HYL/ Energiron-ZR	CDRI	Yes	95.0	3.8	Merchant
<b>voestalpine Texas LLC</b> Portland, Texas	2016	1	2.00	Midrex	HBI	No	93.8	1.5	Merchant

### Venezuela

<b>Bricar-Briquetas del Caroni (Vemprecar)</b> Puerto Ordaz, Bolivar	1990	1	0.82	Midrex	HBI	No	95.2	1	Merchant
<b>Briquetas del Orinoco</b> Puerto Ordaz, Bolivar	2000	1 (idle)	0.55	Finmet	HBI	Yes	86.2	0.8–0.9	Merchant
	2000	2 (idle)	0.55	Finmet	HBI	Yes	86.2	0.8–0.9	Merchant
	2000	3 (idle)	0.55	Finmet	HBI	Yes	86.2	0.8–0.9	Merchant
	2000	4	0.55	Finmet	HBI	Yes	86.2	0.8–0.9	Merchant
<b>Briquetera de Venezuela (BriqVen)</b> Puerto Ordaz, Bolivar	2000	1	0.75	HYL III	HBI	Yes	92.7	0.8	Merchant
	2000	2 (idle)	0.75	HYL III	HBI	Yes	—	—	Merchant
<b>Complejo Siderurgico de Guayana (Comsigua)</b> Puerto Ordaz, Bolivar	1998	1	1.00	Midrex	HBI	No	95.0	0.9	Merchant
<b>CVG Ferrominera Orinoco (FMO)</b> Puerto Ordaz, Bolivar	1990	1 (idle)	1.00	Midrex	HBI	No	94.0	0.8	Merchant
<b>Siderúrgica del Orinoco (Sidor)</b> Puerto Ordaz, Bolivar	1977	I (idle)	1.00	Midrex	CDRI	No	95.5	2.5	Merchant/ captive
	1979	II A (idle)	0.95	Midrex	CDRI	No	94.5	2.4	Captive
	1979	II B (idle)	0.95	Midrex	CDRI	No	94.5	2.4	Captive
	1979	II C (idle)	0.95	Midrex	CDRI	No	94.5	2.4	Captive

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