

# Air Separation Plants

## Large Scale Experience



### Understanding your needs

At Air Products, we know the importance of a safe and reliable technical gases delivery system. We have built more than 1,200 air separation plants since our beginning in 1940, and we are an industry leader in safety, earning more safety-related awards than any other industrial gas company. Today we have over 300 air separation units in operation with references up to 3800 T/D and development up to 7,000 T/D. We have operations around the globe, and we serve "large scale" air separation unit customers in industries such as oil and gas, petroleum refining, chemicals and petrochemicals, power generation, steel, gold and copper mining, and others.



### Representative List of our Large Scale Air Separation Units since 2000

Startup Date	Location	Customer	Segment	Oxygen Capacity (T/D)*	Oxygen Capacity (Nm <sup>3</sup> /H)
2020*	Saudi Arabia	Saudi Aramco	Refining	18600	542,500
2017	China	Inner Mongolia Yitai Chemical Co. Ltd.	Fuels CTL	3 X 3018	264,075
2016	China	Shandong Qingdao Iron & Steel Gases Co., Ltd	Steel	2 X 1406	82000
2016	China	Jinmei	CTL	2331	67987
2016	China	Shaanxi Future Energy Chemical	CTC	4 X 3,000	340,000
2015	South Korea	Korean Western Power	IGCC	2,200	65,000
2014	China	Zhenyuan Chemical Group	Ammonia**	2,400	70,000
2013	China	Pucheng Clean Energy & Chemical	Methanol**	3x 2,800	240,000
2013	China	Henan Xin Lian Xin Fertilizer	Ammonia**	2,200	65,000
2013	China	Bodashidi Chemical Co (BDSD)	CTC	2,160	63,000
2013	China	Guizhou Kaiyang Chemicals	CTC	2,000	58,000
2013, 2010, 2006	China	Wison Chemical	Methanol**	1,650 (3)	48,000 (3)
2012	Dominican Republic	Pueblo Viejo Dominicana Corp	Non-Ferrous	2 X 2,000	116,000
2011	Saudi Arabia	National Industrial Gases Co	GTL	3,600	105,000
2011	Nigeria	Chevron Nigeria, LTD	GTL	2 X 3,500	204,000
2011	USA	Duke Energy	IGCC	2 X 2,800	164,000
2011	China	Weihe Clean Energy Co	Methanol**	2,100	60,000
2010	USA	Eastman Chemical	Other	2 x 3,600	210,000
2009	China	Shaanxi Yanchang	Methanol**	1400	41,000
2008	India	Essar Steel	Ferrous	1,700	50,000
2005	Qatar	Oryx	GTL	2 X 3,500	204,000
2005	Chile	Lurgi/Methanex	Methanol**	2,400	70,000
2003	Trinidad	Atlas Methanex	Methanol**	2,800	82,000
2001	Saudi Arabia	National Industrial Gases Co	GTL	2,100	61,000
2000	USA	Exxon Mobil	Coal to Hydrogen	2,600	76,000

\*Single or Multi-train units

\*\*Includes Derivatives



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