

List of
Urea
Plants
Utilizing TOYO Process



1. Urea plant (1/5)

No.	Owner	Location	Daily Capacity (MT/D)	Process	*On stream	Main contractor
1	Mitsui Toatsu Chemicals, Inc.	Fukuoka, Japan	460	PR-B	1948	Owner
2	Mitsui Toatsu Chemicals, Inc.	Hokkaido, Japan	400	PR-B	1950	Owner
3	Showa Denko K.K.	Kanagawa, Japan	230	PR-B	1955	MTC
4	Toyo Gas Chemicals Co., Ltd.	Niigata, Japan	140	PR-B	1958	Owner
5	Mitsui Toatsu Chemicals, Inc.	Chiba, Japan	400	TR-A/B	1958	Owner
6	Tokai Gas Chemicals Co., Ltd.	Mie, Japan	100	PR-B	1962	TOYO
7	Abonos Colombianos	Cartagena, Colombia	225	TR-B	1963	C&I Girdler (Basic Eng'g: TOYO)
8	Fertilizantes Mexicanos S.A.	Minatitlan, Mexico	145	TR-B	1962	C&I Girdler (Basic Eng'g :TOYO)
9	Polimex-Zaklady Azotowe Kedzierzyn	Kedzierzyn, Poland	500	TR-B	1964	Power Gas (Basic Eng'g :TOYO)
10	P.T. Pupuk Sriwidjaja	Palembang, Indonesia	300	TR-C	1963	H.K. Ferguson (Basic Eng'g :TOYO)
11	Nihon Suiso Kogyo K.K.	Fukushima, Japan	100	PR-B	1962	TOYO
12	Tohoku Hiryo K.K.	Akita, Japan	160	PR-C	1963	TOYO
13	Toyo Gas Chemicals Co., Ltd.	Niigata, Japan	260	PR-B	1963	TOYO
14	Showa Denko K.K.	Kanagawa, Japan	170	PR-B	1963	TOYO
15	W.R. Grace & Co.	Aruba, Netherlands Antilles	225	TR-B	1964	C&I Girdler
16	The Fertilizer Corp. of India	Gorakhpur, India	550	TR-B	1968	TOYO
17	Gujarat State Fertilizer Co., Ltd.	Baroda, India	323	TR-C	1967	TOYO
18	Mitsui Toatsu Chemicals, Inc.	Osaka, Japan	800	TR-C	1966	TOYO
19	Imperial Chemical Industries Ltd.	Billingham, England	1,016	TR-C	1966	TOYO
20	Polimex-Zaklady Azotowe Pulawy	Pulawy, Poland	2,500	TR-B	1968	Owner
21	Strojimport	Sala, Czechoslovakia	300	TR-C	1968	Power Gas (Basic Eng'g :TOYO)
22	Fel-Tex	Nebraska, U.S.A.	45	PR-A	1968	C&I Girdler
23	V/O Techmashimport	Cherkassy, U.S.S.R.	1,030	TR-C	1969	TOYO
24	FESA Fertilizantes Espanoles S.A.	Huelva, Spain	225	TR-B	1967	C&I Girdler
25	Borden Chemicals	Louisiana, U.S.A.	540	TR-C	1967	C&I Girdler

1. Urea plant (2/5)

No.	Owner	Location	Daily Capacity (MT/D)	Process	*On stream	Main contractor
26	ICI Canada Ltd.	Ontario, Canada	162	PR-B	1967	C&I Girdler
27	American Cyanamid of Canada	Ontario, Canada	270	PR-B	1966	H.K. Ferguson (Basic Eng'g :TOYO)
28	K.K. Kasei Mizushima	Okayama, Japan	200	TR-C	1966	TOYO
29	Korea Fertilizer Co., Ltd.	Ulsan, Korea	1,000	TR-C	1967	TOYO
30	Exxon Chemical Pakistan Ltd.	Daharki, Pakistan	515	TR-C	1968	Fluor (Basic Eng'g :TOYO)
31	Chinhae Chemical Co., Ltd.	Chinhae, Korea	375	TR-C	1967	Fluor
32	Yong Nam Chemical Co., Ltd.	Ulsan, Korea	375	TR-C	1967	Fluor (Basic Eng'g :TOYO)
33	Showa Denko K.K.	Kanagawa, Japan	200	TR-C	1966	TOYO
34	Kyowa Hakko Kogyo Co., Ltd.	Yamaguchi, Japan	250	TR-C	1967	TOYO
35	Ube Industries Ltd.	Osaka, Japan	500	TR-C	1967	TOYO
36	Fertilizantes Nitrogenados do Nordeste S.A.	Bahia, Brazil	250	TR-C	1971	TOYO
37	Taiwan Fertilizer Co., Ltd.	Hsinchu, China	300	PR-C	1968	TOYO
38	Kemira B.V.	Rotterdam, Netherlands	515	TR-C	1968	Fluor
39	Fertilizants Maexicanos S.A.	Camargo, Mexico	225	TR-C	1968	C&I Girdler
40	Agrico Chemical Co.	Louisiana, U.S.A.	540	TR-C	1968	C&I Girdler
41	Burma Chemical Industries Development Co., Ltd.	Chauk, Burma	205	TR-C	1970	TOYO
42	Gujarat State Fertilizer Co., Ltd.	Baroda, India	800	TR-C	1969	TOYO
43	Urea Fertilizer Factory Ltd.	Ghorasal, Bangladesh	1,137	TR-C	1970	TOYO
44	ICI India Ltd.	Kanpur, India	1,364	TR-C	1969	TOYO
45	Nissan Chemical Industries Ltd.	Toyama, Japan	200	TR-C	1968	TOYO
46	BASF A.G.	Ludwigshafen, F.R. Germany	800	TR-C	1968	TOYO
47	Mitsui Toatsu Chemicals, Inc.	Osaka, Japan	1,800	TR-CI	1969	TOYO
48	Dawood Hercules Chemicals Ltd.	Lahore, Pakistan	1,100	TR-CI	1971	Fluor
49	Nippon Kasei Chemical Co., Ltd.	Fukushima, Japan	900	TR-CI	1970	TOYO
50	Nippon Ammonia Co., Ltd.	Chiba, Japan	1,000	TR-CI	1971	TOYO

1. Urea plant (3/5)

No.	Owner	Location	Daily Capacity (MT/D)	Process	*On stream	Main contractor
51	T.V.A.	Alabama, U.S.A.	180	TR-CI	1972	H.K. Ferguson (Basic Eng'g :TOYO)
52	Zuari Agro Chemicals Ltd.	Goa, India	1,140	TR-C	1973	TOYO
53	Qatar Fertilizer Co. S.A.Q.	Doha, Qatar	1,000	TR-C	1974	Power Gas
54	BASF A.G.	Ludwigshafen, F.R. Germany	800	TR-CI	1979	TOYO
55	Southern Petrochemical Industries Corp., Ltd.	Tuticorin, India	1,600	TR-CI	1975	TOYO
56	Petroleos del Peru	Talara, Peru	510	TR-CI	1975	TOYO
57	P.T. Pupuk Sriwidjaja	Palembang, Indonesia	1,150	TR-CI	1974	TOYO
58	The Fertilizer Corp. of India Ltd.	Gorakhpur, India	406	TR-CI	1975	TOYO
59	FESA Fertilizantes Espanoles S.A.	Huelva, Spain	500	TR-CI	1975	Heredia y Moreno (Basic Eng'g :TOYO)
60	China National Technical Import Corp.	China	1,600	TR-CI	1976	TOYO
61	Fertilizantes Nitrogenados do Nordeste S.A.	Bahia, Brazil	800	TR-CI	1978	M.W. Kellogg (Basic Eng'g :TOYO)
62	China National Technical Import Corp.	China	1,600	TR-CI	1976	TOYO
63	P.T. Pupuk Sriwidjaja	Palembang, Indonesia	1,725	TR-CI	1977	TOYO
64	Namhae Chemical Corp.	Yeosu, Korea	1,000	TR-CI	1977	TOYO
65	National Fertilizers Ltd.	Bhatinda, India	1,550	TR-CI	1979	TOYO
66	National Fertilizers Ltd.	Panipat, India	1,550	TR-CI	1979	TOYO
67	P.T. Pupuk Sriwidjaja	Palembang, Indonesia	1,725	TR-CI	1977	TOYO
68	P.T. Pupuk Kujang	Cikampek, Indonesia	1,725	TR-CI	1978	TOYO
69	Showa Denko K.K.	Kanagawa, Japan	800 (revamping)	TR-C	1978	TOYO
70	Fertilizantes Nitrogenados do Nordeste S.A.	Sergipe, Brazil	1,100	TR-CI	1982	TOYO
71	Ferlizantes Nitrogenados do Nordeste S.A.	Campos, Brazil	1,100	TR-CI	1985	TOYO
72	V/O Techmachimport	Permj, U.S.S.R.	1,500	TR-CI	1981	TOYO
73	Namhae Chemical Corp.	Yeosu, Korea	1,000	TR-CI	1980	TOYO
74	ICI India Ltd.	Kanpur, India	682	TR-CI	1981	TOYO
75	Petrochem Ltd.	Kapuni, New Zealand	470	TR-CI	1983	CPI/TOYO

1. Urea plant (4/5)

No.	Owner	Location	Daily Capacity (MT/D)	Process	*On stream	Main contractor
76	P.T. ASEAN Aceh Fertilizer	Aceh, Indonesia	1,725	TR-CI	1983	TOYO
77	Mitsui Toatsu Chemicals, Inc.	Chiba, Japan	200	TR-D	1980	TOYO
78	Korea Fertilizer & Chemicals Co., Ltd.	Ulsan, Korea	600	ACES	1983	TOYO
79	P.T. Pupuk Iskandar Muda	Aceh, Indonesia	1,725	TR-CI	1984	TOYO
80	Chittagong Urea Fertilizer Ltd.	Chittagong, Bangladesh	1,700	TR-D	1987	TOYO
81	FESA Fertilizantes Espanoles S.A.	Huelva, Spain	750	ACES	1988	Tecnicas Reunidas (Basic Eng'g :TOYO)
82	Urea Fertilizer Factory Ltd.	Ghorasal, Bangladesh	1,422	ACES	1993	TOYO
83	P.T. Pupuk Sriwidjaja	Palembang, Indonesia	1,725	ACES	1994	Rekayasa (Basic Eng'g :TOYO)
84	P.T. Petrokimia Gresik	Gresik, Indonesia	1,400	ACES	1994	IKPT (Basic Eng'g :TOYO)
85	P.T. Pupuk Sriwidjaja	Palembang, Indonesia	1,725	ACES	1994	PUSRI (Basic Eng'g :TOYO)
86	Weihe Chemical Fertilizer Plant	Shaanxi, China	1,760	ACES	1996	TOYO
87	Weixian Chemical Fertilizer Plant	Hebei, China	180	ACES	1996	TOYO
88	Pak-American Fertilizer Ltd.	Daudkhel, Pakistan	1,050	ACES	1997	TOYO
89	Engro Chemical Pakistan Ltd.	Daharki, Pakistan	1,755	ACES	1998	ECPL (Basic Eng'g :TOYO)
90	Chambal Fertilisers and Chemicals Ltd.	Gadepan, India	2,350	ACES	1999	TOYO
91	Petroleo Brasileiro S.A. (PETROBRAS)	Sergipe, Brazil	1,800	TR-CI	1998	Owner (Basic Eng'g :TOYO)
92	P.T. Pupuk Iskandar Muda	Aceh, Indonesia	1,725	ACES	2005	TOYO
93	P.T. Pupuk Kujang	Cikampek, Indonesia	1,725	ACES21®	2005	TOYO
94	Sichuan Chemical Works (Group) Ltd.	Chengdu, China	2,460	ACES21®	2004	Owner (Basic Eng'g :TOYO)
95	Chambal Fertilisers and Chemicals Ltd.	Gadepan, India	3,300	ACES	2008	PDIL (Basic Eng'g :TOYO)
96	Methanol Holdings (Trinidad) Limited	Point Lisas, Trinidad and Tobago	2,100	ACES21®	2010	MAN Ferrostaal AG (Basic/Detail: TOYO)
97	National Petrochemical Company	Shiraz, Iran	3,250	ACES21®	2016	PIDEC (Basic Eng'g: TOYO)
98	Petroquímica de Venezuela S.A. (PEQUIVEN)	Moron, Venezuela	2,200	ACES21®	2014	TOYO
99	Cuvenpeq.S.A	Cienfuegos, Cuba	2,200	ACES21®	PDP Issued	----
100	P.T. Pupuk Kalimantan Timur	Bontang, Indonesia	3,500	ACES21®	2015	TOYO

1. Urea plant (5/5)

No.	Owner	Location	Daily Capacity (MT/D)	Process	*On stream	Main contractor
101	Jaiprakash Associates Limited	Kanpur, India	3,850	ACES21®	PDP Issued	Owner/EIL (Basic Eng'g: TOYO)
102	Yacimientos Petroliferos Fiscales Bolivianos	Carrasco, Bolivia	2,100	ACES21®	2017	SECL (Basic Eng'g: TOYO)
103	Indorama Eleme Fertilizer and Chemicals Limited	Port Harcourt, Nigeria	4,000	ACES21®	2016	TOYO
104	P.T. Pupuk Sriwidjaja Palembang	Palembang, Indonesia	2,750	ACES21®	2016	TOYO
105	P.T. Petrokimia Gresik	Gresik, Indonesia	1,725	ACES21®	2018	Wuhuan (Basic Eng'g: TOYO)
106	Chambal Fertilisers and Chemicals Ltd.	Gadepan, India	4,000	ACES21®	2019	TOYO
107	Masjed Soleyman Petrochemical Industries Company	Masjed Soleyman, Iran	3,250	ACES21®	(2021)	PIDEC (Basic Eng'g: TOYO)
108	Hindustan Urvarak and Rasayan Ltd.	Gorakhpur, India	3,850	ACES21®	(2021)	TOYO
109	Indorama Eleme Fertilizer and Chemicals Limited	Port Harcourt, Nigeria	4,000	ACES21®	(2021)	TOYO

2. Urea granulation plant

No.	Owner	Location	Daily capacity (MT/D)	On-Stream	Remarks (Urea plant capacity)
1	Mitsui Toatsu Chemicals, Inc.	Chiba, Japan	50	1979	(200 MT/D)
2	Petrochem Ltd.	Kapuni, New Zealand	470	1983	(470 MT/D)
3	Mitsui Toatsu Chemicals, Inc.	Osaka, Japan	100	1983	(1,800 MT/D)
4	SKW Piesteritz GmbH	Piesteritz, Germany	1,200	1995	(2,100 MT/D)
5	Petrochem Ltd.	Kapuni, New Zealand	750	1996	(750 MT/D)
6	SKW Piesteritz GmbH	Piesteritz, Germany	500	1998	(1,050 MT/D)
7	Ning Xia Chemical Works of SINOPEC	Ning Xia, China	1,740	1999	(1,740 MT/D)
8	P.T. Pupuk Iskandar Muda	Aceh, Indonesia	1,725	2005	(1,725 MT/D)
9	Lutianhua Group Incorporated (CNTIC)	Sichuan, China	2,000	2000	(2,000 MT/D)
10	Zhanyi Fertilizer Plant	Yunnan, China	600	2002	(600 MT/D)
11	Ningxia Petrochemical Co.	Ningxia, China	870	2006	(2,610 MT/D)
12	Shanxi Lanhua Sci-Tech Venture Co., Ltd.	Shanxi, China	1,000	2007	(1,000 MT/D)
13	Petroleo Brasileiro S.A. (PETROBRAS)	Laranjeiras, Brazil	600	2007	(1,800 MT/D)
14	JSC "Concern STIROL"	Gorlovka, Ukraine	2,000	2008	(---- MT/D)
15	PetroChina Tarim Petrochemical Company	Xinjiang, China	2,640	2010	(2,640 MT/D)
16	National Petrochemical Company	Shiraz, Iran	3,250	2016	(3,250 MT/D)
17	Petroquímica de Venezuela S.A. (PEQUIVEN)	Moron Venezuela	2,200	2014	(2,200 MT/D)
18	Vietnam Oil and Gas Group (PetroVietnam)	Ca Mau, Vietnam	2,385	2012	(2,385 MT/D)
19	JSC "Salavatnefteorgsintez"	Salavat, Russia	1,400	2012	(---- MT/D)
20	Cuvenpeq.S.A	Cienfuegos Cuba	2,200	PDP Issued	(2,200 MT/D)
21	P.T. Pupuk Kalimantan Timur	Bontang Indonesia	3,500	2015	(3,500 MT/D)
22	Yacimientos Petrolíferos Fiscales Bolivianos	Carrasco, Bolivia	2,100	2017	(2,100 MT/D)
23	Indorama Eleme Fertilizer and Chemicals Limited	Port Harcourt, Nigeria	4,000	2016	(4,000 MT/D)
24	Masjed Soleyman Petrochemical Industries Company	Masjed Soleyman, Iran	3,250	(2021)	(3,250 MT/D)
25	Indorama Eleme Fertilizer and Chemicals Limited	Port Harcourt, Nigeria	4,000	(2021)	(4,000 MT/D)

3. Urea plant effluent (Process Condensate) treatment (1/2)

No.	Owner	Location	Urea Plant (MT/D)	On-Stream	Remarks
1	V/O Techmashimport	Permi, U.S.S.R.	1,500	1981	
2	Kemira B.V.	Rotterdam, Netherlands	515	1982	Urea Hydrolyzer = 30 MT/H
3	ICI India Ltd.	Kanpur, India	3 x 682	1989	Urea Hydrolyzer = 35 MT/H
4	Petrochem Ltd.	Kapuni, New Zealand	470	1983	
5	Chittagong Urea Fertilizer Ltd.	Chittagong, Bangladesh	1,700	1989	
6	Fertilizer Corp. of India Ltd.	Ramagundam, India	—	1991	Urea Hydrolyzer = 65 MT/H
7	Urea Fertilizer Factory Ltd.	Ghorasal, Bangladesh	1,422	1993	
8	P.T. Pupuk Sriwidjaja	Palembang, Indonesia	1,725	1994	
9	P.T. Petrokimia Gresik	Gresik, Indonesia	1,400	1994	
10	Weihe Chemical Fertilizer Plant	Shaanxi, China	1,760	1996	
11	Vneshtradeinvest J.V.	Nevinnomyssk, Russia	—	1994	Urea Hydrolyzer = 45 MT/H
12	P.T. Pupuk Sriwidjaja	Palembang, Indonesia	—	1995	Urea Hydrolyzer = 2 x 50 MT/H
13	Fesa Fertilizantes Espanoles S.A.	Huelva, Spain	750	1997	Urea Hydrolyzer = 17 MT/H
14	Pak-American Fertilizer Ltd.	Daudkhel, Pakistan	1,050	1998	
15	Chambal Fertilizers and Chemicals Ltd.	Gadepan, India	2,350	1998	
16	P.T. Pupuk Iskandar Muda	Aceh, Indonesia	1,725	2005	
17	Duncans Industries Ltd.	Kanpur, India	—	2001	Urea Hydrolyzer = 60 MT/H
18	P.T. Pupuk Kujang	Cikampek Indonesia	1,725	2005	
19	Mitsui Chemicals Inc.	Osaka, Japan	—	2002	Urea Hydrolyzer = 40 MT/H
20	Sichuan Chemical Works (Group) Ltd.	Chengdu, China	2,460	2004	
21	Samsung Fine Chemicals Co., Ltd.	Ulsan, Korea	550	2003	
22	Methanol Holdings (Trinidad) Limited	Point Lisas, Trinidad and Tobago	2,100	2010	
23	National Petrochemical Company	Shiraz, Iran	3,250	2016	
24	Petroquímica de Venezuela S.A. (PEQUIVEN)	Moron Venezuela	2,200	2014	
25	Cuvenpeq.S.A	Cienfuegos Cuba	2,200	PDP Issued	

3. Urea plant effluent (Process Condensate) treatment (2/2)

No.	Owner	Location	Urea Plant (MT/D)	On-Stream	Remarks
26	P.T. Pupuk Kalimantan Timur	Bontang Indonesia	3,500	2015	
27	Jaiprakash Associates Limited	Kanpur, India	3,850	PDP Issued	
28	Yacimientos Petrolíferos Fiscales Bolivianos	Carrasco, Bolivia	2,100	2017	
29	Indorama Eleme Fertilizer and Chemicals Limited	Port Harcourt, Nigeria	4,000	2016	
30	P.T. Pupuk Sriwidjaja Palembang	Palembang, Indonesia	2,750	2016	
31	P.T. Petrokimia Gresik	Gresik, Indonesia	1,725	2018	
32	Chambal Fertilisers and Chemicals Ltd.	Gadepan, India	4,000	2019	
33	Masjed Soleyman Petrochemical Industries Company	Masjed Soleyman, Iran	3,250	(2021)	
34	Hindustan Urvarak and Rasayan Ltd.	Gorakhpur, India	3,850	(2021)	
35	Indorama Eleme Fertilizer and Chemicals Limited	Port Harcourt, Nigeria	4,000	(2021)	

4. Melamine off-gas recovery plant combined with urea plant

No.	Owner	Location	Melamine plant capacity (MT/Y)	Urea plant capacity (MT/D)	On-stream
1	Mitsui Toatsu Chemicals, Inc.	Chiba, Japan	8,000	200	1966
2	Mitsui Toatsu Chemicals, Inc.	Osaka, Japan	20,000	800	1971
3	Kashima Melamine Co., Ltd.	Ibaraki, Japan	30,000	1,400	1971
4	Korea Fertilizer & Chemicals Co., Ltd.	Ulsan, Korea	6,000	1,000	1973
5	P.T. Pupuk Sriwidjaja	Palembang, Indonesia	20,000	1,725	1994
6	Sichuan Chemical Works (Group) Ltd.	Chengdu, China	50,000	2,460	2004
7	Samsung Fine Chemicals Co., Ltd.	Ulsan, Korea	40,000	550	2002
8	Methanol Holdings (Trinidad) Limited	Point Lisas, Trinidad and Tobago	60,000	2,100	2010

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TSPI has two affiliates: TSE is in charge of the onshore facilities EPC business and EBR is in charge of the offshore facilities EPC business

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