

Supply List of Phosphoric Acid Fuel Cell Units

No.	Customer (Country)	Output (kW)	Fuel	Type	Shipment Operation	Remarks Project, Location, etc.
1	The Kansai Electric Power Co., Inc. (Japan)	30	LNG	Ambient Pressure Air-cooled	1982	Sakaiko Thermal PS.
2	The Hokuriku Electric Power Co., Inc. (Japan)	4	Methanol	Ambient Pressure Air-cooled	1986	Co-generation. Subsidized by NEDO Cottage in Toyama Prefecture
3	Mitsubishi Heavy Industries Ltd. (Japan)	5.6	—	Ambient Pressure Air-cooled	1987	Stack only Sagamihara work
4	Tohoku Electric Power Co., Inc. (Japan)	50	LNG and LPG	Pressurized Water-cooled	1987	Niigata Thermal PS.
5	Shikoku Electric Power Co., Ltd. (Japan)	4	Methanol	Ambient Pressure Air-cooled	1987	Technical Research Center
6	NEDO (Japan)	1000	LNG	Pressurized Water-cooled	1987	The Kansai Electric Power Co., Inc. Sakaiko Thermal PS.
7	Nippon Telegram and Telephone Corp. (Japan)	4	Methanol	Ambient Pressure Air-cooled	1987	Technical Research Center
8	Korea Institute of Energy & Resources (Korea)	5.6	—	Ambient Pressure Air-cooled	1987	Stack only
9	Showa Shell Sekiyu K.K. (Japan)	4	Methanol	Ambient Pressure Air-cooled	1988	Central R&D Labo.
10	Idemitsu Kosan Co., Ltd. (Japan)	4	Methanol	Ambient Pressure Air-cooled	1988	Central R&D Labo.
11	K.T.I. B.V. (Netherlands)	29.5	—	Ambient Pressure Water-cooled	1988	Stack only European Demonstration Program
12	Mitsubishi Oil Co., Ltd. (Japan)	4	Methanol	Ambient Pressure Air-cooled	1988	Development Labo.
13	K.T.I. S.p.A. (Italy)	29.5	—	Ambient Pressure Water-cooled	1989	Stack only European Demonstration Program
14	Idemitsu Kosan Co., Ltd. (Japan)	20	Naphtha	Ambient Pressure Water-cooled	1989	PEC Technology Development Program Central R & D Labo.
15	Booz Allen & Hamilton Inc. (USA)	25	Methanol	Ambient Pressure Liquid-cooled	1989	D.O.E. Bus Project
16	Daimler-Banz Aktiengesellschaft (F.R.Germany)	2	—	Ambient Pressure Liquid-cooled	1989	Stack only
17	NEDO (Japan)	200	Methanol	Ambient Pressure Water-cooled	1989	The Okinawa Electric Power Co., Inc. Tokashiki Island Power Station
18	Tokyo Gas Co., Ltd. (Japan)	50	NG	Ambient Pressure Water-cooled	1989	Experimental Model (Prototype)
19	The Kansai Electric Power Co., Inc. (Japan)	50 x14 units	NG	Ambient Pressure Water-cooled	1990-1992	NEDO Project Rokko Island
20	Showa Shell Sekiyu K.K. (Japan)	100 class	—	Ambient Pressure Water-cooled	1990	Stack only PEC Technology Development Program
21	Idemitsu Kosan Co., Ltd. (Japan)	50	Naphtha	Ambient Pressure Water-cooled	1990	PEC Technology Development Program Central R & D Labo.
22	K.T.I.B.V. (Netherlands)	80	Hydrogen	Ambient Pressure Water-cooled	1991	Stack Only Solar-Wasserstoff-Projekt
23	SNAM/ENI (Italy)	50	NG	Ambient Pressure Water-cooled	1991	Milano
24	Nippon Telegram and Telephone Corp. (Japan)	50	NG	Ambient Pressure Water-cooled	1991	
25	ENAGAS (Spain)	50	NG	Ambient Pressure Water-cooled	1991	Madrid
26	SYDKRAFT (Sweden)	50	NG	Ambient Pressure Water-cooled	1991	Helsingborg
27	Tokyo, Osaka and Toho Gas. (Japan)	50 x 9 units	NG	Ambient Pressure Water-cooled	1990-1992	Trial Model. Joint Development
28	Tokyo, Osaka and Toho Gas (Japan)	100 x 7 units	NG	Ambient Pressure Water-cooled	1991-1993	Trial Model. Joint Development

NEDO: New Energy and Industrial Technology Development organization
PEC : Petroleum Energy Center

LNG: Liquefied Natural Gas
LPG: Liquefied Petroleum Gas
NG : Natural Gas (City Gas)