

**Reference List of 115KV Substation in Thailand by Fuji's Group**

Feb-18

Year	Customer	Voltage	Current	Int. Current	No. of unit	Type	Factory	TR	Main Contractor
1999	FUJITSU (THAILAND) *	123KV	800A	31.5KA	3	C-GIS	Fuji-Chiba	2x25/30MVA	FEC
2000	FURUKAWA METAL *	123KV	800A	31.5KA	1	C-GIS	Fuji-Chiba	20MVA	FEC
2001	SIAM ASAHI TECHNO GLASS	123KV	800A	31.5KA	1	C-GIS	Fuji-Chiba	14MVA	(Japan)
2002	TLP Cogeneration, Rayong	123KV	2000A	31.5KA	8	AIS	-	3x32/42/52MVA	Toyo Thai
2003	YS PUND Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	15/20MVA	FEC
2004	Yokohama Tire Manufacturing	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	8MVA	(Japan)
2004	DCSP <sup>*1</sup> (New Air Port Power Plant)	123KV	1250A	31.5KA	7	GIS	JAEP-Indonesia	20MVA, 18MVA	FET/JAEP
2005	Toyoda Machinery Works *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	20MVA	FET
2006	Yokohama Tire Manufacturing	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	12MVA	(Japan)
2006	Sanko Gosei *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	15MVA	FET
2006	AGC Automotive (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	7.5MVA	FET
2006	Aoyama Thailand Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	12/15MVA	FET
2006	Takao Eastern Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	12/15MVA	FET
2007	Uni-charm Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	20MVA	FET
2007	NIDEC Electronic (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	30MVA	FET
2007	Toyota Motor Asia *	123KV	800A	31.5KA	3	GIS	JAEP-Indonesia	2x15MVA	FET
2008	Thai NOK Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	40/50MVA	FET
2008	MHI Turbocharger Asia *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	15/20MVA	FET
2008	Kyoden Thailand *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	30MVA	FET
2009	Yokohama Tire Manufacturing	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	12MVA	(Japan)
2009	NIDEC Copal (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	18MVA	FET
2010	Sharp (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	20MVA	FEC
2010	Suzuki (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	10MVA	FET
2010	Nippon Electric Glass Malaysia *	132KV	1250A	31.5KA	5	GIS	JAEP-Indonesia	90/125MVA	FET
2011	KASET THAI BIO POWER *	123KV	1250A	40KA	1	GIS	JAEP-Indonesia	65/30/75MVA	FET
2011	Thai Arrow Products *	123KV	800A	40KA	1	GIS	JAEP-Indonesia	20/(25)MVA	FET
2011	JFE Steel Galvanizing (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	15/20MVA	FET
2012	Nippon Steel Galvanizing (Thailand) *	123KV	800A	31.5KA	1	GIS	Hitachi-Indonesia	20/25MVA	FET
2012	YMP PRESS & DIES (Thailand) *	123KV	800A	31.5KA	1	GIS	Hitachi-Indonesia	8MVA	FEC
2013	AGC Automotive (Thailand) *	123KV	800A	31.5KA	1	GIS	Hitachi-Indonesia	15/18MVA	FET
2013	UACJ (Thailand) Phase-1 *	123KV	1250A	31.5KA	4	GIS	Hitachi-Indonesia	1x40, 2x7.5MVA	FET
2014	UACJ (Thailand) Phase-2 *	123KV	1250A	31.5KA	3	GIS	Hitachi-Indonesia	1x40, 2x10MVA	FET
2014	THAI PARKERIZING (Thailand) *	123KV	800A	31.5KA	1	GIS	Fuji	15/(18)MVA	FEC
2014	SIAM METAL TECHNOLOGY	123KV	1250A	31.5KA	1	GIS	Fuji	15MVA	FET
2014	POSCO COATED STEEL (Thailand)	123KV	800A	31.5KA	1	GIS	Fuji	22/25MVA	FEC
2015	THAI ARROW PRODUCTS	123KV	800A	31.5KA	1	GIS	Fuji	20MVA	FET
2015	DAISIN CO., LTD.	123KV	800A	31.5KA	1	GIS	Fuji	16/20MVA	FET
2015	SOLARVA CO.,LTD.	123KV	3150A	40KA	1	AIS	ABB GCB	10MVA	FTU Eng
2016	TPI POLENE PUBLIC COMPANY LIMITED	145KV	2000A	40KA	3	GIS	Fuji	40MVA, 75MVA	MA Power
2016	IT FORGING (Thailand) Co.,LTD.	123KV	800A	31.5KA	1	GIS	Fuji	20/25MVA	FEC
2017	THAI TOKAI CARBON PRODUCTS CO.,LTD.	123KV	800A	31.5KA	1	GIS	Fuji	10MVA	FEC
2017	WASTE 4 POWER CO.,LTD.	123KV	3150A	40KA	1	AIS	ABB GCB	10/12MVA	FET
2018	MINEBEA (CAMBODIA) CO.,LTD.	123KV	3150A	40KA	4	AIS	ABB GCB	30MVA	FET
2018	NTN MANUFACTURING (Thailand) Co.,Ltd.	123KV	800A	31.5KA	1	GIS	Fuji	20MVA	FET
2018	UACJ (Thailand) Phase-3*	123KV	1250A	31.5KA	3	GIS	Fuji	1x50, 2x10MVA	FET
2018	Epson Precision (Thailand)*	123KV	800A	31.5KA	1	GIS	Fuji	20/25MVA	FET

## Reference List of 115KV Substation in Thailand by Fuji's Group

Nov-16

Year	Customer	Voltage	Current	Int. Current	No. of unit	Type	Factory	TR	Main Contractor
1999	FUJITSU (THAILAND) *	123KV	800A	31.5KA	3	C-GIS	Fuji-Chiba	2x25/30MVA	FEC
2000	FURUKAWA METAL *	123KV	800A	31.5KA	1	C-GIS	Fuji-Chiba	20MVA	FEC
2001	SIAM ASAHİ TECHNO GLASS	123KV	800A	31.5KA	1	C-GIS	Fuji-Chiba	14MVA	(Japan)
2002	TLP Cogeneration, Rayong	123KV	2000A	31.5KA	8	AIS	-	3x32/42/52MVA	Toyo Thai
2003	YS PUND Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	15/20MVA	FEC
2004	Yokohama Tire Manufacturing	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	8MVA	(Japan)
2004	DCSP <sup>*1</sup> (New Air Port Power Plant)	123KV	1250A	31.5KA	7	GIS	JAEP-Indonesia	20MVA, 18MVA	FET/JAEP
2005	Toyoda Machinery Works *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	20MVA	FET
2006	Yokohama Tire Manufacturing	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	12MVA	(Japan)
2006	Sanko Gosei *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	15MVA	FET
2006	AGC Automotive (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	7.5MVA	FET
2006	Aoyama Thailand Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	12/15MVA	FET
2006	Takao Eastern Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	12/15MVA	FET
2007	Uni-charm Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	20MVA	FET
2007	NIDEC Electronic (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	30MVA	FET
2007	Toyota Motor Asia *	123KV	800A	31.5KA	3	GIS	JAEP-Indonesia	2x15MVA	FET
2008	Thai NOK Co., Ltd *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	40/50MVA	FET
2008	MHI Turbocharger Asia *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	15/20MVA	FET
2008	Kyoden Thailand *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	30MVA	FET
2009	Yokohama Tire Manufacturing	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	12MVA	(Japan)
2009	NIDEC Copal (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	18MVA	FET
2010	Sharp (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	20MVA	FEC
2010	Suzuki (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	10MVA	FET
2010	Nippon Electric Glass Malaysia *	132KV	1250A	31.5KA	5	GIS	JAEP-Indonesia	90/125MVA	FET
2011	KASET THAI BIO POWER *	123KV	1250A	40KA	1	GIS	JAEP-Indonesia	65/30/75MVA	FET
2011	Thai Arrow Products *	123KV	800A	40KA	1	GIS	JAEP-Indonesia	20/(25)MVA	FET
2011	JFE Steel Galvanizing (Thailand) *	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	15/20MVA	FET
2012	Nippon Steel Galvanizing (Thailand) *	123KV	800A	31.5KA	1	GIS	Hitachi-Indonesia	20/25MVA	FET
2012	YMP PRESS & DIES (Thailand) *	123KV	800A	31.5KA	1	GIS	Hitachi-Indonesia	8MVA	FEC
2013	AGC Automotive (Thailand) *	123KV	800A	31.5KA	1	GIS	Hitachi-Indonesia	15/18MVA	FET
2013	UACJ (Thailand) Phase-1 *	123KV	1250A	31.5KA	4	GIS	Hitachi-Indonesia	1x40, 2x7.5MVA	FET
2014	UACJ (Thailand) Phase-2 *	123KV	1250A	31.5KA	3	GIS	Hitachi-Indonesia	1x40, 2x10MVA	FET
2014	THAI PARKERIZING (Thailand) *	123KV	800A	31.5KA	1	GIS	Fuji	15/(18)MVA	FEC
2014	SIAM METAL TECHNOLOGY	123KV	1250A	31.5KA	1	GIS	Fuji	15MVA	FET
2014	POSCO COATED STEEL (Thailand)	123KV	800A	31.5KA	1	GIS	Fuji	22/25MVA	FEC
2015	THAI ARROW PRODUCTS	123KV	800A	31.5KA	1	GIS	Fuji	20MVA	FET
2015	DAISIN CO., LTD.	123KV	800A	31.5KA	1	GIS	Fuji	16/20MVA	FET
2015	SOLARWA CO.,LTD.	123KV	3150A	40KA	1	AIS	ABB GCB	10MVA	FTU Eng
2016	TPI POLENE PUBLIC COMPANY LIMITED	145KV	2000A	40KA	3	GIS	Fuji	40MVA, 75MVA	MA Power
2016	IT FORGING (Thailand) Co.,LTD.	123KV	800A	31.5KA	1	GIS	Fuji	20/25MVA	FEC
2017	THAI TOKAI CARBON PRODUCTS CO.,LTD.	123KV	800a	31.5KA	1	GIS	Fuji	10MVA	FEC

**Reference List of 115KV Substation in Thailand by Fuji's Group**

Oct-16

Year	Customer	Voltage	Current	Int. Current	No. of unit	Type	Factory	TR	Main Contractor
1990	ASAHI GLASS	123KV	1250A	25KA	4	C-GIS	Fuji-Chiba	2x15MVA	(Japan)
1991	UBE INDUSTRY	123KV	800A	25KA	4	C-GIS	Fuji-Chiba	2x20MVA	(Japan)
1993	SIAM YAMATO STEEL	123KV	2000A	31.5KA	3	C-GIS	Fuji-Chiba	140MVA, 72MVA	(Japan)
1993	Caltex Refinery, Rayong	123KV	800A	31.5KA	1	AIS	-	15MVA	(Japan)
1994	BRIDGESTONE	123KV	800A	25KA	1	C-GIS	Fuji-Chiba	7.5MVA	(Japan)
1995	SIAM ASAHI TECHNO GLASS	123KV	800A	25KA	1	C-GIS	Fuji-Chiba	14MVA	(Japan)
1997	YAZAKI ARROW	123KV	1200A	40KA	2	GIS	Fuji-Chiba	15MVA	(Japan)
1997	SIAM UNITED STEEL	123KV	800A	31.5KA	3	C-GIS	Fuji-Chiba	60/75MVA	(Japan)
1997	BRIDGESTONE	123KV	800A	25KA	1	C-GIS	Fuji-Chiba	12MVA	(Japan)
<b>Following Project handling by FET and/or assist by FET</b>									
1999	<b>FUJITSU (THAILAND) *</b>	123KV	800A	31.5KA	3	C-GIS	Fuji-Chiba	2x25/30MVA	FEC
2000	<b>FURUKAWA METAL *</b>	123KV	800A	31.5KA	1	C-GIS	Fuji-Chiba	20MVA	FEC
2001	SIAM ASAHI TECHNO GLASS	123KV	800A	31.5KA	1	C-GIS	Fuji-Chiba	14MVA	(Japan)
2002	TLP Cogeneration, Rayong	123KV	2000A	31.5KA	8	AIS	-	3x32/42/52MVA	Toyo Thai
2003	<b>YS PUND Co., Ltd *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	15/20MVA	FEC
2004	Yokohama Tire Manufacturing	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	8MVA	(Japan)
2004	DCSP* <sup>1</sup> (New Air Port Power Plant)	123KV	1250A	31.5KA	7	GIS	JAEP-Indonesia	20MVA, 18MVA	JAEP
2005	<b>Toyoda Machinery Works *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	20MVA	FET
2006	Yokohama Tire Manufacturing	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	12MVA	(Japan)
2006	<b>Sanko Gosei *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	15MVA	FET
2006	<b>AGC Automotive (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	7.5MVA	FET
2006	<b>Aoyama Thailand Co., Ltd *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	12/15MVA	FET
2006	<b>Takao Eastern Co., Ltd *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	12/15MVA	FET
2007	<b>Uni-charm Co., Ltd *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	20MVA	FET
2007	<b>NIDEC Electronic (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	30MVA	FET
2007	<b>Toyota Motor Asia *</b>	123KV	800A	31.5KA	3	GIS	JAEP-Indonesia	2x15MVA	FET
2008	<b>Thai NOK Co., Ltd *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	40/50MVA	FET
2008	<b>MHI Turbocharger Asia *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	15/20MVA	FET
2008	<b>Kyoden Thailand *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	30MVA	FET
2009	Yokohama Tire Manufacturing	123KV	800A	31.5KA	1	GIS	JAEP-Chiba	12MVA	(Japan)
2009	<b>NIDEC Copal (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	18MVA	FET
2010	<b>Sharp (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	20MVA	FET
2010	<b>Suzuki (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	10MVA	FET
2010	<b>Nippon Electric Glass Malaysia *</b>	132KV	1250A	31.5KA	5	GIS	JAEP-Indonesia	90/125MVA	FET
2011	<b>KASET THAI BIO POWER *</b>	123KV	1250A	40KA	1	GIS	JAEP-Indonesia	65/30/75MVA	FET
2011	<b>Thai Arrow Products *</b>	123KV	800A	40KA	1	GIS	JAEP-Indonesia	20/(25)MVA	FET
2011	<b>JFE Steel Galvanizing (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	JAEP-Indonesia	15/20MVA	FET
2012	<b>Nippon Steel Galvanizing (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	Hitachi-Indonesia	20/25MVA	FET
2012	<b>YMP PRESS &amp; DIES (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	Hitachi-Indonesia	8MVA	FET
2013	<b>AGC Automotive (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	Hitachi-Indonesia	15/18MVA	FET
2013	<b>UACJ (Thailand) Phase-1 *</b>	123KV	1250A	31.5KA	4	GIS	Hitachi-Indonesia	1x40, 2x7.5MVA	FET
2014	<b>UACJ (Thailand) Phase-2 *</b>	123KV	1250A	31.5KA	3	GIS	Hitachi-Indonesia	1x40, 2x10MVA	FET
2014	<b>THAI PARKERIZING (Thailand) *</b>	123KV	800A	31.5KA	1	GIS	Fuji	15/(18)MVA	FET
2014	<b>SIAM METAL TECHNOLOGY</b>	123KV	1250A	31.5KA	1	GIS	Fuji	15MVA	FET
2014	<b>POSCO COATED STEEL (Thailand)</b>	123KV	800A	31.5KA	1	GIS	Fuji	22/25MVA	FET
2015	<b>THAI ARROW PRODUCTS</b>	123KV	800A	31.5KA	1	GIS	Fuji	20MVA	FET
2015	<b>DAISIN CO., LTD.</b>	123KV	800A	31.5KA	1	GIS	Fuji	16/20MVA	FET
2015	<b>SOLARWA CO.,LTD.</b>	123KV	3150A	40KA	1	AIS	Fuji ,ABB,COLME	10MVA	FET

DCSP\*<sup>1</sup> is District Cooling System and Power Plant Co., Ltd. FET was done Engineering work.