

Electrical Engineering

1.1. Design and Construction of High Voltage Transmission Line

1.1.1. Government Organization and Public Authorities

No.	Year of Completion	Customer / location	Description
1	2017	Electricity Generating Authority of Thailand (EGAT) Contract No. EGAT N3T1-L-03 • Tha Tako km110-Tha Tako	500 kV System Double Circuit 4x1272 MCM 111 cct-km. Contract Amount : 871 Million Baht
2	2017	Electricity Generating Authority of Thailand (EGAT) Contract No. EGAT SPPC-L-03 • Tha Tako - Phache - Ayutthaya 4	500 kV System Double Circuit 3.7 cct-km. Contract Amount : 208 Million Baht
3	2016	Electricity Generating Authority of Thailand (EGAT) Contract No. EGAT RLP1-L-04 • Ang Thong1 - Tha Tako	230 kV System Double Circuit 117.1 cct-km. Contract Amount : 364.61 Million Baht
4	2012	Provincial Electricity Authority (PEA) Contract No. 115kV Transmission Tower Cross Mea Kong Liver at Cheing San	115kV System Contract Amount : 273 Million Baht
5	2009	Provincial Electricity Authority (PEA) Contract No. อ.บพ.(บก)-028/2552 • Mae Tang - Mae Hong Sorn	OPGW System Contract Amount : 25.90 Million Baht
6	2009	Provincial Electricity Authority (PEA) Contract No. อ.บพ.(บก)-023/2552 • Mae Tang - Mae Hong Sorn	115kV System Contract Amount : 5.50 Million Baht
7	2008	Provincial Electricity Authority (PEA) Contract No. อ.ป.2/2550 • Across Mae Klong River, Phra Ram2 (Thonburi - Pak Tor)	115kV System Contract Amount : 4.74 Million Baht
8	2007	Metropolitan Electricity Authority (MEA) Contract No. กกธ.73/2549 • Bangkok - Chonburi Road (from East Ring Road - Srinakarin Road)	115kV System Contract Amount : 3.11 Million Baht
9	2007	Electricity Generating Authority of Thailand (EGAT) Contract No. EGAT 47-C89849-2-2-30(49) SKL2-HY2-L1(R) • Songkhla 2 - Hat Yai 2	230 kV System Double Circuit 28 cct-km. Contract Amount : 135.12 Million Baht
10	2006	Provincial Electricity Authority (PEA) Contract No. อ.151/2547 • Nong Khai Substation (EGAT) - Sri Chaingmai Substation	115kV System 54.090 cct-km. Contract Amount : 60.00 Million Baht
11	2001	Provincial Electricity Authority (PEA) Contract No. TSD.3.P-4.1/1997 : 3 Routes • Chalung Sub.- Hat Yai . Sub. - Hat Yai 4 Sub. • Bang Saphan 1 Sub.-Bang Saphan 2 Sub. • Prachuapkhirikhan Sub. - Kuiburi Sub.	115kV System 93 cct-km. Contract Amount : 146.00 Million Baht
12	1999	Provincial Electricity Authority (PEA) Contract No. TSD.5.P-4.7/1997 : 3 Routes • Phayakhaphum Phisai Sub.-Kaset Wisai Sub. • Chaiyaphum Sub.-Bua Yai Sub. • chokchai Sub.-Nong Ki Sub.	115kV System 162 cct-km. Contract Amount : 260.00 Million Baht

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1.1.2 Private Companies

No.	Year of Completion	Customer / location	Description
1	2013	Mit Phon Bio	115kV Underground Cable Contract Amount : 37 Million Baht
2	2013	Rojana Power Co.,Ltd / Ayutthany Province	115kV Transmission line Contract Amount : 64.4 Million Baht
3	2013	AMATA B GRIMM	115kV Transmission line Contract Amount : 300 Million Baht
4	2013	Rojana Power Co.,Ltd / Ayutthany Province	POWER CABLE AND TERMINATOR Contract Amount : 15.9 Million Baht
5	2013	PTT UG	115kV Underground Cable Contract Amount : 169 Million Baht
6	2013	Gulf JP NNK	115/22kV Transmission line Contract Amount : 61.80 Million Baht
7	2010	SIPCO Power Plant	230 kV Modify Transmission Line from EGAT to SIPCO Power Plant Contract Amount : 10.00 Million Baht
8	2009	PTT UT	UNDERGROUND 115KV, 22KV RMU GEN STEP UP TRANORMER Contract Amount : 67.7 Million Baht
9	2005	PTT Utility Co.,Ltd : Central Utility Project I	Contract Amount : 52.00 Million Baht
10	2003	Rojana Power Co.,Ltd / Ayutthany Province	Contract Amount : 8.90 Million Baht
11	2001	National Petrochemical Public Co.,Ltd / Rayong Province	Contract Amount : 37.59 Million Baht
12	1998	Pattco Land Co.,Ltd / Chachoengsao Province	Contract Amount : 20.00 Million Baht
13	1997	Amata - EGGO Power Co.,Ltd / Chon Buri Province	Contract Amount : 26.50 Million Baht
14	1997	Amata - EGCO Power Co.,Ltd / Chachoengsao Province	Contract Amount : 10.00 Million Baht
15	1996	Chitr Charoen Farm Co.,Ltd / Chachoengsao Province • Across Mae Klong River, Phra Ram2 (Thonburi - Pak Tor)	Contract Amount : 21.00 Million Baht

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1.2 Design and Construction of Substation

1.2.1 Government Organization and Public Authorities

No.	Year of Completion	Customer / location	Description
Gas Insulated Substation			
1	2018	Provincial Electricity Authority (PEA) Contract No. TSDP8.1-3.19/2559 • Supply and Installation 115/22 kV GIS Substation, Khlong Khwang 2 and Samut Sakhon 7	115/22 kV System GIS Substation Contract Amount : 556.38 Million Baht
2	2017	Electricity Generating Authority of Thailand (EGAT) Contract No. SPPC-S-02 • Supply and Construction for 500/230 kV Ayutthaya 4 Substation and 230 kV Sikhiu 2 Substation	500/230 kV Substation (GIS) Contract Amount : 1,128.00(695.00) Million Baht
3	2017	Electricity Generating Authority of Thailand (EGAT) Contract No. GAB3-S-02 • Supply and Construction of 500 kV CHAENG WATTHANA Substation	500 kV Substation (GIS) Contract Amount : 649.53(375.00) Million Baht
4	2015	Electricity Generating Authority of Thailand (EGAT) Contract No. GAB3-S-02 • Supply and Construction of 500 kV CHAENG WATTHANA Substation	500 kV Substation (GIS) Contract Amount : 649.53(375.00) Million Baht
5	2015	Provincial Electricity Authority (PEA) Contract No. BPH-BDA/2556 • Supply and Installation 115/22 kV GIS Substation, BANG KRA DI-BANG PRA KRU	115/22 kV System GIS Substation Contract Amount : 480.02 Million Baht
6	2015	Provincial Electricity Authority (PEA) Contract No. TSDP6.1-3.10/2556 • Supply and Installation 115/22 kV GIS Substation, OM NOI 4	115/22 kV System GIS Substation Contract Amount : 291.97 Million Baht
7	2012	Provincial Electricity Authority (PEA) Contract No. TSD.6.1.P-3.9/2552 • Supply and Installation 115/22 kV GIS Substation, Muang Ek	115/22 kV System GIS Substation Contract Amount : 309.19 Million Baht
8	2009	Provincial Electricity Authority (PEA) Contract No. DSRP.2-NVD/2552 • Supply and Installation 115/22 kV GIS Substation, Navankhon4	115/22 kV System GIS Substation Contract Amount : 486.21 Million Baht
9	2006	Provincial Electricity Authority (PEA) • Supply and Installation 115/33 kV GIS Substation (Turnkey) Prince of Songkla University	115/33 kV System GIS Substation Contract Amount : 63.85 Million Baht

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No.	Year of Completion	Customer / location	Description
115 kV Conventional Substation			
1	2019	Provincial Electricity Authority (PEA) Contract No.TSDP9.3-3.11/2560 : 1 Substation • Khlong Mai 2	115/22 kV Substation (AIS) Contract Amount : 215.37 Million Baht
2	2018	Provincial Electricity Authority (PEA) Contract No.TSDP9.2-3.6/2560 : 2 Substations • Roi Et 2 and Phukhieo	115/22 kV Substation (AIS) Contract Amount : 281.16 Million Baht
3	2018	Provincial Electricity Authority (PEA) Contract No.TSDP9.2-3.3/2557 : 3 Substations • Huai Thalaeng, Khok Kruat, Khonburi	115/22 kV Substation (AIS) Contract Amount : 152.78 Million Baht
4	2015	Provincial Electricity Authority (PEA) Contract No.TSDP9.1-3.2/2557 : 3 Substations • Doi Saket , Chiangkhong and Chun	115/22 kV Substation (AIS) Contract Amount : 129.60 Million Baht
5	2014	Provincial Electricity Authority (PEA) Contract No. DSRP3-3.3/2557 : 1 Substation • Pasang	115/22 kV Substation (AIS) Contract Amount : 13.49 Million Baht
6	2014	Provincial Electricity Authority (PEA) Contract No. TSDP9.3-3.3/2556 : 3 Substations • Amata City, Eastern Seaboard and Hemaraj	115/22 kV Substation (AIS) Contract Amount : 583.50 Million Baht
7	2014	Provincial Electricity Authority (PEA) Contract No. TSDP9.2-3.3/2557 : 3 Substations • Kuai Thalaeng , Khok Kruat 1 and Khon Buri	115/22 kV Substation - Switch Gear, Bay Contract Amount : 152.97 Million Baht
8	2014	Provincial Electricity Authority (PEA) Contract No. DSRP3-3.1/2557 : 2 Substations • Pathumthani 1 and Khlong Khwang 1	115/22 kV Substation (GIS) Contract Amount : 152.97 Million Baht
9	2014	Provincial Electricity Authority (PEA) Contract No. CSCS-R-DDC2B/2010	CSCS Improved Contract Amount : 49.35 Million Baht
10	2014	Provincial Electricity Authority (PEA) Contract No. PEA-CSCS-R1B/2009	CSCS Improved Contract Amount : 41.31 Million Baht
11	2014	Provincial Electricity Authority (PEA) Contract No. TSDP9.1-3.3/2556 : 3 Substations • Pua, Rong Kwang and Khlong Khlung	115/22 kV Substation (GIS) - Switch Gear, Bay Contract Amount : 240.01 Million Baht
12	2013	Provincial Electricity Authority (PEA) Contract No. NAK-MCA/2553 : 2 Substations • Mea Chan and Nong Khai	115/22 kV Substation Contract Amount : 38.17 Million Baht
13	2013	Royal Irrigation Department Contract No. WST-CYS-BP11/02	115 kV Substation Contract Amount : 70.00 Million Baht
14	2013	Provincial Electricity Authority (PEA) Contract No. DSRP2-3.3/2554 : 2 Substations • Bang Kra Sun and Bang Pra han	115/22 kV Substation Contract Amount : 23.26 Million Baht

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No.	Year of Completion	Customer / location	Description
15	2011	Provincial Electricity Authority (PEA) Contract No. TSD.7.1.P-3.4/2552 : 1 Substation • Chiang Yun	115/22 kV Substation Contract Amount : 414.45 Million Baht
16	2011	Provincial Electricity Authority (PEA) Contract No. TSD.6.1P-3.8/2552 : 1 Substation • Bor Ploy	115/22 kV Substation (AIS) Contract Amount : 161.48 Million Baht
17	2011	Provincial Electricity Authority (PEA) Contract No. TSD.8.1.P-3.11/2551 : 3 Substations • Chang Yun , Nakhon Ratchasima and Surin 2	3 x 115/22 kV 50 MVA Substation Contract Amount : 414.47 Million Baht
18	2010	Provincial Electricity Authority (PEA) Contract No. TSD.7.1.P-3.4/2552 : 1 Substation • Chiang Mai	115/22 kV Substation (GIS) Contract Amount : 59.76 Million Baht
19	2011	Provincial Electricity Authority (PEA) Contract No. TSD.8.2.P-3.2/2552 : 2 Substations • Dan Ma Kam Tia and Pluak Dang 2	3 x 115/22 kV 50 MVA Substation Contract Amount : 369.50 Million Baht
20	2011	Provincial Electricity Authority (PEA) Contract No. TSD.6.1.P-3.8/2552 : 1 Substation • Bor Ploy	1 x 115/22 kV 50 MVA Substation Contract Amount : 161.48 Million Baht
21	2010	Provincial Electricity Authority (PEA) Contract No. กทปด.บจก.(พ) -01/2551 : 1 Substation • Mapthaput 2 (Switching Substation)	1 x 115/22 kV 50 MVA Substation Contract Amount : 92.33 Million Baht
22	2010	Provincial Electricity Authority (PEA) Contract No. DSRP.2-3.6/2551 : 4 Substations • Sri Chiang Mai • Ban Phu • Sam Pong Thap • Nong Ki	115 kV Substation Contract Amount : 60.17 Million Baht
23	2007	Provincial Electricity Authority (PEA) Contract No. TSD.8.1.P-3.2/2549 : 5 Substations • Nakhonluang • Koapho • Banbung 2 • Bankhai 2 • Pluakdaeng 3	9 x 115/22 kV 50 MVA Substation Contract Amount : 758.80 Million Baht
24	2000	Provincial Electricity Authority (PEA) Contract No. TSD 5.p-3.2/1997 : 7 Substations • Khok Samrong • Uthai Thani • Lat Yao • Nong Chang • Taphan Hin • Phitsanulok 3 • Phichai	50 MVA 115 kV / 22 kV Substation, Contract Amount : 600.00 Million Baht

22 kV Substation

1	2010	Provincial Electricity Authority (PEA) Contract No. DSRP.2-STA/2551 : 1 Substation • Mapthaput 2 (Switching Substation)	22 kV Contract Amount : 53.70 Million Baht
2	2008	Provincial Electricity Authority (PEA) Contract No. PSR.6.P-3.1A/2550 : 3 Substations • Chiangrai , Payao and Chiangmai	22 kV Contract Amount : 157.68 Million Baht
3	2008	Provincial Electricity Authority (PEA) Contract No. PSR.6.P-3.1B/2550 : 2 Substations • Kamphaengphet and Pijit	22 kV Contract Amount : 113.49 Million Baht

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1.2.2 Private Companies

No.	Year of Completion	Customer / location	Description
230 kV Conventional Substation			
1	2018	Energy Absolute Public Company Limited Contract No.5912/004 Nong Bua Rawe Substation	230/115 kV GIS Substation Contract Amount : 630.00 Million Baht
2	2010	Siam Power Generation Public Company Limited Sipco Power Plant	230 kV Switchyard and Transmission Line Substa- Contract Amount : 231.78 Million Baht
3	1998	Khanom Electricity Generation Co.,Ltd / Nakhon Srithammarat Province	Supply and Installation 230kV Conventional Substation (Turnkey), Capacity 20/25 MVA Contract Amount : 37.74 Million Baht
115 kV Gas Insulated Substation			
1	2012	7 x 115kV POWER PLANT SUBSTAION GULF JP (1 Substation)	115 kV POWER PLANT SUBSTAION Contract Amount : 680.09 Million Baht
2	2011	Somboon Advance Technology Public Company Limited	115 kV GIS Substation Contract Amount : 42 Million Baht
3	2009	PTT Utility Co.,Ltd / For Central Utility Project 3	Design, Supply civil work equipment and installaton equipment for GIS Sub. Contract Amount : 249.91 Million Baht
4	2007	PTT Utility Co.,Ltd / For Central Utility Project 2	115 kV GIS Substation Contract Amount : 217.48 Million Baht
5	2007	Toshiba Asia Pacific Co.,Ltd / National Thai Samuthprakarn Province	Supply and Installation 115 kV GIS Indoor Substation (Turnkey) Capacity 15 MVA
6	2006	PTT Utility Co.,Ltd : Central Utility Project I Maptaphut Industrial Park, Rayong Province	Supply and Installation 115 kV GIS Indoor Substation (Turnkey) Contract Amount : 109.18 Million Bant
7	1997	Toyo-Thai Coporation Ltd / Thasco RCA Project Rayong Province	Supply and Installation 115 kV GIS Indoor Substation (Turnkey) Capacity 20 MVA
115 kV Conventional Substation			
1	2016	115 kV Substation Thai Jurong Engineering Limited / Saha Gogen Power Plant Project	Repartion Work of 115kV Substation Contract Amount : 8.00 Million Baht
2	2016	115-22 kV Substation Thai Steel Profile Plc	115kV Substation Contract Amount : 29.27 Million Baht
3	2014	115kV Substation JongChor Ruber	115kV Substation Contract Amount : 39.60 Million Baht

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No.	Year of Completion	Customer / location	Description
4	2014	115/22 kV Siam Metal Technology Project KINDEN (THAILAND) CO.,LTD	115/22kV Substation Contract Amount : 37.30 Million Baht
5	2014	115-22 kV Substation East Water Plc	115kV Substation Contract Amount : 37.90 Million Baht
6	2013	Non-firm Terminal Sub Rojana Power Co.,Ltd	115kV Substation Contract Amount : 150.86 Million Baht
7	2013	ADDITIONAL 115KV Bay Rojana Power Co.,Ltd	115kV Substation Contract Amount : 16.12 Million Baht
8	2013	115kV Terminal Substation & Additional Substation Rojana Power Co.,Ltd	115kV Terminal Substation Contract Amount : 83.82 Million Baht
9	2013	115 kV Substation Delong (Thailand) Co.,Ltd	115kV Substation Contract Amount : 44.30 Million Baht
10	2013	115/22 kV Substation Siam Pure Rice Project Thai Jurong Co.,Ltd	115/22kV Substation Contract Amount : 89.50 Million Baht
11	2013	115/22 kV Substation Thai Jurong Co.,Ltd	115/22kV Substation Contract Amount : 118.00 Million Baht
12	2013	115kV Substation Ratchaburi World THAI JULONG ENGINEERING CO.,LTD (EPC)	115kV Substation Contract Amount : 166.32 Million Baht
13	2013	115kV & 69 kV Hybrid Substation Bangkadi AMATA B GRIMM	115kV Substation Contract Amount : 120.00 Million Baht
14	2013	115/22 kV Substation Konkaen Sugar	115/22 kV Substation Contract Amount : 17.00 Million Baht
15	2013	115/22 kV Substation Danchang Mitphon&Karasin Power plant	115/22 kV Substation Contract Amount : 88.00 Million Baht
16	2013	Addition Power Transformer 35/50 MVA 115/6.6kV Uthai Bio	Addition Power Transformer Contract Amount : 28.00 Million Baht
17	2013	115kV SUBSTATION Ubon Bio	115kV Substation Contract Amount : 49.00 Million Baht
18	2012	7 x 115kV POWER PLANT SUBSTAION GULF JP (6 Substation)	115 kV POWER PLANT SUBSTAION Contract Amount : 680.09 Million Baht
19	2012	115/22kV SUBSTATION STAR CORE	115kV Substation Contract Amount : 25.50 Million Baht
20	2012	Recovery 115kV Substation & 22kV Distribution system After Flooding Rojana Power Co.,Ltd	115kV Substation and 22kV Distribution system Contract Amount : 680.09 Million Baht
21	2012	Additional Transformer Bay 40/50 MVA Rojana Power Co.,Ltd	115kV Substation Contract Amount : 75.19 Million Baht

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No.	Year of Completion	Customer / location	Description
22	2012	Communication+Inter-trop Rojana Power Co.,Ltd	115/22kV Substation Contract Amount : 25.51 Million Baht
23	2012	Communication+Inter-trop Rojana Power Co.,Ltd	115/22kV Substation Contract Amount : 25.51 Million Baht
24	2012	Add BAY TP306 and TP307 Rojana Power Co.,Ltd	115/22kV Substation Contract Amount : 93.14 Million Baht
25	2012	Add CB, CT and Change CT Rojana Power Co.,Ltd	115/22kV Substation Contract Amount : 14.15 Million Baht
26	2012	115/22kV SUBSTATION 30/40 MVA,OLTC with Oil Purifier THE NAWALOHA INDUSTRY CO.,LTD	115kV Substation Contract Amount : 50.90 Million Baht
27	2012	115 Terminal Substation and 11-115kV Power Plant substation,2-38 MVA MITR PHU LUANG BIO-ENERGY Co.,LTD	115kV Substation Contract Amount : 96.00 Million Baht
28	2012	115-22 kV Substation 30/40 MVA,OLTC Rice CP Co.Ltd	115kV Substation Contract Amount : 42.15 Million Baht
29	2012	115-22 kV Substation Thai Union frozen Products PCL	115kV Substation Contract Amount : 40.05 Million Baht
30	2012	Improve Harmonic System THE NAWALOHA INDUSTRY CO.,LTD	115kV Substation Contract Amount : 25.00 Million Baht
31	2012	115-22 kV Substation , 20/25 MVA,OLTC Tanakorn Roumpon 999	115kV Substation Contract Amount : 30.54 Million Baht
32	2012	115 kV Substation ABPR 1 & 2 Amata City(TPSC Thailand) Toshiba Plant Service System Cooperation (Thailand)	115 kV Substation Contract Amount : 115.38 Million Baht
33	2012	115 kV ABPR1 & ABPR2 CCCP Project AMATA B GRIMM	115 kV Substation Contract Amount : 152.13 Million Baht
34	2012	115kV Terminal Substation for ABPR1 & ABPR2 CCCP Project AMATA B GRIMM	115/22 kV Remote Substation 1 Contract Amount : 54.02 Million Baht
35	2012	115kV Switchyard Power Plant (Toshiba) (ABP3) AMATA B GRIMM	115kV Switchyard Power Plant Contract Amount : 45.50 Million Baht
36	2012	115kV Substation UBE Project MITR KASET	115/22 kV Substation Contract Amount : 44.5 Million Baht
37	2012	115kV Terminal Substation (ABP3) AMATA B GRIMM	115kV Terminal Substation Contract Amount : 31.25 Million Baht
38	2012	Rehabilitation Substation Indo Thai	115/22kV Substation Contract Amount : 22.24 Million Baht

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No.	Year of Completion	Customer / location	Description
39	2011	2nd Bay expansion Indorama	115/22kV Substation Contract Amount : 19.01 Million Baht
40	2011	115/22 kV Substation International Casting Product	115/22kV Substation Contract Amount : 44.80 Million Baht
41	2011	115 kV Substation Mitsubishi Project Thai Takenaka (EPC)	115/22 kV Substation Contract Amount : 36.00 Million Baht
42	2011	115-22 kV Substation , 20/25 MVA,OLTC PTT Technology Wangnoi	115kV Substation Contract Amount : 14.79 Million Baht
43	2010	Rojana Power Co.,Ltd Rojana Industrial Park, Ayuthaya Province	Extension transformer bay and installation TP-12 and switchgear Contract Amount : 52.65 Million Baht
44	2010	Khonkean Brewery	115/22 kV Substation Contract Amount : 28.50 Million Baht
45	2010	Bangkok Glass	115/22 kV Substation Contract Amount : 25.00 Million Baht
46	2010	Ayutaya Glass	115/22 kV Substation Contract Amount : 15.00 Million Baht
47	2009	GS Engineering & Construction : HMC PP Project Line-3 Rayong Province	115 kv Substation Facility Contract Amount : 54.54 Million Baht
48	2008	Rojana Power Co.,Ltd Rojana Industrial Park, Ayuthaya Province	Additional Transformer bay & Transformer 1 set & Distribution System Contract Amount : 70.00 Million Baht
49	2008	Rojana Power Co.,Ltd Rojana Industrial Park, Ayuthaya Province	Engineering, Procurement & construction of modification & addition 115 kv Substation Contract Amount : 347.00 Million Baht
50	2006	Rojana Power Co.,Ltd Rojana Industrial Park, Ayuthaya Province	115/22 kV 30/40 MVA Substation Contract Amount : 30.50 Million Baht
51	2005	Amata Power (Bangpakong) Power Expansion for Remote Substation 1 & 2	115/22 kV 2x40/50 MVA Substation Contract Amount : 68.00 Million Baht
52	2004	AT Biopower Terminal Substation in Generator Plant	Contract Amount : 29.29 Million Baht
53	2001	Thai National Power Co.,Ltd / Rayong Province	Power Transformer Capacity 2 x 25 MVA
54	2001	Thai National Power Co.,Ltd / Rayong Province	115/22 kV Electricity Substation Extension and 22 kV Distribution Network

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No.	Year of Completion	Customer / location	Description
22 kV Substation			
1	2012	Rojana Power Co.,Ltd / Ayutthaya Province	22 kV RMU Substation (RMU NO.502) Contract Amount : 13.25 Million Baht
2	2012	Rojana Power Co.,Ltd / Ayutthaya Province	22 kV RMU Substation (RMU NO.9) Contract Amount : 14.07 Million Baht
3	2012	Rojana Power Co.,Ltd / Ayutthaya Province	DCS for RMU 3,4,10 Contract Amount : 11.95 Million Baht
4	2009	Rojana Power Co.,Ltd / Ayutthaya Province	22 kV RMU Substation (RMU NO.12) Contract Amount : 9.86 Million Baht
5	2009	Rojana Power Co.,Ltd / Ayutthaya Province	22 kV RMU Substation (RMU NO.302) Contract Amount : 9.86 Million Baht
6	2008	PTT PCL	22 kV Substation and cable for Agitator Contract Amount : 30.35 Million Baht
7	2007	Rojana Power Co.,Ltd / Ayutthaya Province	22 kV SF6-Insulated Substation Contract Amount : 25.00 Million Baht
8	2005	PTT Utility Co.,Ltd : Central Utility Project I • Maptaphut Industrial Park, Rayong Province	Contract Amount : 85.34 Million Baht

1.3 Design and Construction of 22 kV & 33 kV Distribution System

1.3.1 Government Organization and Public Authorities

No.	Year of Completion	Customer / location	Description
1	2018	Provincial Electricity Authority (PEA) • Khon Kaen University / Khon Kaen Province	Installation 22kV Overhead line Contract Amount : 17.29 Million Baht
2	2012	Electricity Generating Authority of Thailand (EGAT) • EGAT Head Office / Nonthaburi Province	Installation 11kV Switchgear Contract Amount : 54.45 Million Baht
3	2012	Provincial Electricity Authority (PEA) • Mea Klong River / Samutsakorn Province	Installation 22kV Overhead line Contract Amount : 3.50 Million Baht
4	2009	Provincial Electricity Authority (PEA) Contract No. จ.ก.2-กม./081/2552 • Centara Grand Mirage Beach Resort, Chonburi	Change Distribution System from on Ground to Underground System Contract Amount : 4.07 Million Baht
5	2009	Provincial Electricity Authority (PEA) Contract No. จ.257/2551 • Rai Lay Gulf, Krabi Province	33 kV Distribution System Contract Amount : 3.40 Million Baht

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No.	Year of Completion	Customer / location	Description
6	2007	Provincial Electricity Authority (PEA) Contract No. อ.2/2549	22 kV Compact Unit Substation & Underground system Contract Amount : 101.43 Million Baht
7	2005	Metropolitan Electricity Authority (MEA) • 4-Private's Substation / Bangkok	Renovation 12 kV - 24 kV Power Supply Contract Amount : 33.75 Million Baht
8	2004	Metropolitan Electricity Authority (MEA) Contract No. กกต.53/2546 • Romkaw Substation, Luang Paeng Road	Construction 24 kV Feeder Contract Amount : 1.28 Million Baht
9	2004	Metropolitan Electricity Authority (MEA)	Renovation 12 kV - 24 kV Power Supply Contract Amount : 18.79 Million Baht
10	2002	Metropolitan Electricity Authority (MEA) • 5-Private's Substation / Bangkok	Renovation 12 kV - 24 kV Power Supply Contract Amount : 10.10 Million Baht
11	2001	Electricity Generating Authority of Thailand (EGAT) • EGAT Head Office / Nonthaburi Province	Construction 11 kV Power Supply Contract Amount : 14.20 Million Baht
12	2001	Provincial Electricity Authority (PEA) Contract No. อ.12.-49/2544 • Tak Province	22 kV Cable hang on King Tak Great Bridge, Across Ping River ; Contract Amount : 260.00 Million Baht
13	2000	Royal Thai Air Force • Wing4, Nakhon Sawan Province	16 cct-km. HT Line ; 2 x 1000 KW Generator; Contract Amount : 55.00 Million Baht
14	2000	Royal Thai Air Force • Wing4, Nakhon Sawan Province	16 cct-km. HT Line ; 53 Units of Transformer; Contract Amount : 20.50 Million Baht
15	2000	Civil Air Force Department, Donmuang, Bangkok	6 cct-km. HT Line, Main Switch & Street Light Contract Amount : 20.45 Million Baht
16	2000	Civil Air Force Department, Donmuang, Bangkok	6 cct-km. HT Line & Install Electricity Generator 1000 KW Contract Amount : 55.02 Million Baht
17	1999	Provincial Electricity Authority (PEA) Contract No. อ.90/2540 • Trang Province	22 cct-km. HT Line ; 211 cct-km Lt Line; 20,30 kVA Transformer 116 Units; Contract Amount : 25.00 Million Baht
18	1999	Provincial Electricity Authority (PEA) Contract No. อ.108/2540 • Suratthani Province	132 cct-km. HT Line ; 235 cct-km Lt Line; 20,30 kVA Transformer 137 Units; Contract Amount : 42.50 Million Baht

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1.3.2 Private Companies

No.	Year of Completion	Customer / location	Description
1	2018	Gulf JP KP2 Company Limited Contract No.GKP2-4104001257 Kok-yaenong Khae / Saraburi Province	22 kV Distribution Contract Amount : 10.16 Million Baht
2	2018	ROJANA POWER CO.,LTD Contract No.RPIV010/2018 Bangkok Can Manufacturing Co., Ltd. / Ayutthaya Province	22 kV Distribution Contract Amount : 17.45 Million Baht
3	2018	Gulf VTP Company Limited Contract No.GVTP-460000940 • Thaikobelco Construction Machinery Co., Ltd. • Hanonsystem (Thailand) • Dana Spicer (Thailand) • Valeo Automotive (Thailand) • Yorozu (Thailand)	22 kV Distribution Contract Amount : 15.80 Million Baht
4	2014	EA Solar nakorn sawan	22 kV Distribution for EA Solar Contract Amount : 47.50 Million Baht
5	2014	ROJANA POWER CO.,LTD (OEG)	22 kV Distribution for RMU9 Contract Amount : 6.51 Million Baht
6	2014	ROJANA POWER CO.,LTD (OEG)	OEG-Standby Team for Maintenance Service Contract Amount : 1.14 Million Baht
7	2014	Charoen Pokphand Northeastern Public Co., Ltd.	Charoen Pokphand (Rong Puy Soi 19) Contract Amount : 1.60 Million Baht
8	2014	Subudomlthara Co., Ltd.	22 kV Distribution for Subudomlthara Co., Ltd. Contract Amount : 1.30 Million Baht
9	2014	ROJANA POWER CO.,LTD	22 kV Distribution for RMU9 Contract Amount : 6.51 Million Baht
10	2014	Rojana Energy	22 kV Distribution for Solar Farm Area 4 Contract Amount : 5.66 Million Baht
11	2014	ROJANA POWER CO.,LTD	22 kV Distribution for Backup SPP2 Contract Amount : 1.88 Million Baht
12	2014	ROJANA POWER CO.,LTD	Remove load from SPP1 to SPP2 Contract Amount : 1.00 Million Baht
13	2014	Aisin Takaoka Thailand	22 kV Distribution for Aisin takaoka thailand Contract Amount : 6.40 Million Baht
14	2014	Soomboon group	22 kV Distribution for soomboon group Contract Amount : 3.74 Million Baht
15	2014	Thai Cabon Back	Thai Cabon Back Contract Amount : 1.86 Million Baht

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No.	Year of Completion	Customer / location	Description
16	2013	Maree sampran	22 kV Distribution for Maree sampran Contract Amount : 1.05 Million Baht
17	2013	ROJANA POWER CO.,LTD	Move 22kV distribution Main&Back up of RMU 302) Contract Amount : 4.05 Million Baht
18	2013	ROJANA POWER CO.,LTD	Move 22kV distribution Main&Back up of RMU301&303) Contract Amount : 9.7 Million Baht
19	2013	Thai General Nice Coal & Coke	Thai General Nice Coal & Coke (22kV Distribution Line) Contract Amount : 4.64 Million Baht
20	2013	ROJANA POWER CO.,LTD	22 kV Distribution for Firm-Non Firm Contract Amount : 2.63 Million Baht
21	2013	Kirui (Thailand)	22 kV Distribution for Kirui Contract Amount : 17.70 Million Baht
22	2013	Baan Wararuk	Baan Wararus phase 1,2,3 Contract Amount : 7.75 Million Baht
23	2013	Rojana Energy	22 kV Distribution for Solar Farm Area 2 Contract Amount : 2.36 Million Baht
24	2013	ROJANA POWER CO.,LTD	22 kV Distribution for CITIZEN FAC2 Contract Amount : 1.76 Million Baht
25	2013	ROJANA POWER CO.,LTD	22 kV Distribution for TOUGH LITE Contract Amount : 1.07 Million Baht
26	2013	ROJANA POWER CO.,LTD	22 kV Distribution for THAI SANYO Contract Amount : 2.26 Million Baht
27	2013	ROJANA POWER CO.,LTD	22 kV Distribution for Orion Contract Amount : 1.02 Million Baht
28	2013	ROJANA POWER CO.,LTD	22 kV Distribution for RMU 502 Contract Amount : 24.11 Million Baht
29	2013	Kirui (tahiland)	22 kV Distribution Kirui Contract Amount : 14.06 Million Baht
30	2013	ROJANA POWER CO.,LTD	OEG-Standby Team for Maintenance Service'2555 Contract Amount : 1.04 Million Baht

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No.	Year of Completion	Customer / location	Description
31	2013	Best Bond	Distribution 22 kV and Installation Transformer Contract Amount : 1.87 Million Baht
32	2013	ROJANA POWER CO.,LTD	22 kV Distribution for OEG Contract Amount : 1.51 Million Baht
33	2013	ROJANA POWER CO.,LTD	22 kV Distribution Contract Amount : 33.62 Million Baht
34	2013	Jong Siri Kri	22 kV Distrution Jong Siri Kri Contract Amount : 1.42 Million Baht
35	2013	Nawaloha Industry	22 kV Distribution for Nawaloha Industry Contract Amount : 31.98 Million Baht
36	2011	ROJANA POWER CO.,LTD	22 kV Distribution for MAITAN Contract Amount : 1.60 Million Baht
37	2011	ROJANA POWER CO.,LTD	22 kV Distribution for DAIWA KASET Contract Amount : 2.26 Million Baht
38	2011	ROJANA POWER CO.,LTD	22 kV Distribution for THAI LYSAGHT Contract Amount : 3.80 Million Baht
39	2008	Rojana Power Co.,Ltd • Ayutthaya	Construction and adjust Distribution System for RMU 8,9,10,11 Contract Amount : 32.86 Million Baht
40	2008	Rojana Power Co.,Ltd • Ayutthaya	Construction and adjust Distribution System for RMU 1,2,3,4,7,8,9,11 Contract Amount : 15.77 Million Baht
41	2008	Rojana Power Co.,Ltd • Ayutthaya	Engineering, Procurement & Construction 22 kV . Distribution Line for RMU 302 Contract Amount : 16.41 Million Baht
42	2002	Rojana Power Co.,Ltd • Ayutthaya	22 kV Distribution Line Installation Contract Amount : 36.00 Million Baht
43	1998	Wang Thong Group Co.,Ltd • Ayutthaya	2x100 kVA ; 6 x 160 kVA; 8x250 kVA 22 kV Transformer Contract Amount : 7.19 Million Baht

Electrical Engineering

1.4 Design and Construction of Undetground Cable

No.	Year of Completion	Customer / location	Description
1	2017	Provincial Electricity Authority (PEA) Contract No.จป.208/2559 • MEA Region 3 North (Lot 6) 27 Job	Improvment 22kV Underground Cable Contract Amount : 35.03 Million Baht
2	2017	Provincial Electricity Authority (PEA) Contract No.จป.212/2559 • Phufa Palace / Nan Provice	Improvment 22kV Underground Cable Contract Amount : 8.37 Million Baht
3	2016	Provincial Electricity Authority (PEA) Contract No.จป.200/2558 •PEA Region 3 (Central)	Improvment 22kV& 115kV Underground Cable Contract Amount : 148.22 Million Baht
4	2016	Metropolitan Electricity Authority (MEA) • Ramathibodi Hospital / Bang Phli	Install Underground High Voltage Electrical Contract Amount : 21.25 Million Baht
5	2016	Provincial Electricity Authority (PEA) Contract No.จป.6/2558 • Khon Kaen Province	Improvment 22kV Underground Cable Contract Amount : 46.52 Million Baht
6	2015	Provincial Electricity Authority (PEA) • Khok Chang / Trat Province	Installation 22kV Underground Cable Contract Amount : 46.79 Million Baht
7	2015	Metropolitan Electricity Authority (MEA) • Bangkok Province	Improvment 22kV Underground Cable Contract Amount : 27.1 Million Baht
8	2015	Municipal office Trang Visedkul Road/Trang	Improve the distribution Line system be underground cable Contract Amount : 53.87 MB.
9	2015	Provincial Electricity Authority Ruenrom Road/Khon Kaen	Improve the distribution Line system be underground cable Contract Amount : 42.24 MB.
10	2015	Provincial Electricity Authority Yacht Harbor Heven/Phuket	Improve the distribution Line system be underground cable Contract Amount : 7.89 MB.
11	2015	Metropolitan Electricity Authority Sainoi Substation (EGAT)/Nonthaburi	Manholes and Underground Conduits Construction Contract Amount : 3.94 MB.
12	2014	Provincial Electricity Authority (PEA) • Nokorn Nayok Province	Improvment 22kV Underground Cable Contract Amount : 3.6 Million Baht

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No.	Year of Completion	Customer / location	Description
13	2014	Chulalongkorn University	Changing Underground Cable and RMU Contract Amount : 10.25 Million Baht
14	2012	Provincial Electricity Authority (PEA) Phetkaseam Road, Hatyai Distric	Improvement Undergorund Cable Contract Amount : 106.08 Million Baht
15	2012	Port Authority of thailand Phetkaseam Road, Hatyai Distric	Changing Undergorund Cable Contract Amount : 15.8 Million Baht
16	2010	SIPCO Power Plant	230 kV Underground Cable Contract Amount : 35.00 Million Baht
17	2010	PTT LNG	115 kV Underground Cable Contract Amount : 169.00 Million Baht
18	2008	PTT Utility Co.,Ltd	Underground 115 kV , 22 kV RMU , GEN Step up Contract Amount : 67.70 Million Baht
19	2007	Provincial Electricity Authority (PEA) Contract No. จ.2/2549 • Pattaya 1 Road, Chonburi Province	Underground Cable 22 kV System including Design and construction of Compact Unit Substation Contract Amount : 101.43 Million Baht
20	2007	Provincial Electricity Authority (PEA) Contract No. จ.118/2549 • National Science and Technology Development Agency	Install Underground High Voltage Electrical System Contract Amount : 4.48 Million Baht
21	2005	Provincial Electricity Authority (PEA) Contract No. จ.146/2546 • Across Tha Chin River, Samutsakorn Province	Underground Cable 22 kV System 0.54 cct-km Contract Amount : 15.48 Million Baht
22	2004	Provincial Electricity Authority (PEA) Contract No. จ.107/2547 • Pantnikom Sub. - Motorway	Underground Cable 115 kV System Contract Amount : 32.86 Million Baht
23	2002	Provincial Electricity Authority (PEA) Contract No. จ.158/2544 • Phaholyothin Highway Between 306-307 km. and 308-309 km., Klongkhung, Kamphaengphet Province	Underground Cable 115 kV System Contract Amount : 13.90 Million Baht
24	2002	Electricity Generating Authority of Thailand (EGAT)	Underground Cable 22-33 kV System Contract Amount : 14.20 Million Baht
25	1998	The Communications Authority of Thailand • Chaeng Watthana , Bangkok	Underground Cable 22-33 kV System Contract Amount : 32.67 Million Baht
26	1997	AMATA-EGCO Power Limited	115&22 kV Underground Cable Contract Amount : 18.00 Million Baht