



## Scope of Work

### -- PREFABRICATED SUBSTATION BUILDINGS (E House)

Year	Project Name	Qty	Typical Dimension	EPC	Site	SOW
2005	Shanghai gonghexinlu metro project, China	5	Typical Dimension: 4m H 5m W 15m L /typical	Shanghai Metro Construction Corp	China	Design, Fabricate E house and supply HVAC system, access control, fire detection & alarm system, utility system and installation of free issue equipment, inter-panel wiring etc.
2010	Oyu Tolgoi Gold and Copper Mining Project, Mongolian	50	Single Unit Dimension: 4m H 4m W 18m L /typical Split Unit Dimension: 4m H 8m W 18m L /typical	Fluor, Canada ABB	Mongolian	Design, Fabricate E house and supply HVAC system, access control, fire detection & alarm system, utility system and installation of free issue equipment, inter-panel wiring etc.
2011	Aggreko Moving Substation	3	Typical Dimension: 3.5m H 3m W 4m L /typical	Aggreko (Singapore) Pte Ltd	Singapore	Design, Fabricate E house and supply ventilation system, installation of equipment.
2010-2015	Sino Iron Project, Cape Preston, Australia	12	Typical Dimension: 4m H 6.3m W 33.8m L /6 sets; 4m H 5.7m W 18m L /6 sets	MCC / NETC / Sino Iron ABB	Australia	Design, Fabricate E house and supply HVAC system, Steel support piers, utility system and installation of free issue equipment, inter-panel wiring etc.
2013-2014	Bozshakol Copper Project, Kazakhstan	48	Single Unit Dimension: 4.1m H 3.6m W 10.8m L /typical Split Unit Dimension: 4.1m H 5.6m W 50.0m L /Largest split	AUSCENCO, Australia ABB	Kazakhstan	Design, Fabricate E house and supply HVAC system, utility system and installation of access control, fire detection & alarm system, Free issue equipment, inter-panel wiring etc.
2013-2014	Aktogay Sulphide Project, Kazakhstan	21	Single Unit Dimension: 4.1m H 3.6m W 10.8m L /typical Split Unit Dimension: 4.1m H 5.6m W 52.5m L /Largest split type	AUSCENCO, Australia ABB	Kazakhstan	Design, Fabricate E house and supply HVAC system, utility system and installation of access control, fire detection & alarm system, Free issue equipment, inter-panel wiring etc.
2014	Aktogay Oxide Project, Kazakhstan	5	Split Unit Dimension: 4.1m H 6.2m W 37.8m L /Largest split type	AUSCENCO, Australia ABB	Kazakhstan	Design, Fabricate E house and supply HVAC system, utility system and installation of access control, fire detection & alarm system, Free issue equipment, inter-panel wiring etc.
2014	Cairn India, Mangala Process Terminal 5	1	Split Unit Dimension: 4.3m H 7m W 22m L / split type	L&T India	India	Design, Fabricate E house and supply HVAC system, utility system and installation of access control, fire detection & alarm system, Free issue equipment, inter-panel wiring etc.
2014	Baidu IT Module	1	Single Unit Dimension: 3.3m H 3m W 14m L	Schneider Electric	China	Design, Fabricate IT Module and supply utility system, fire system accessories, cooling system accessories. and installation of free issue equipment, inter-panel wiring etc.
2015	Oyu Tolgoi Gold and Copper Mining Project, Mongolian Phase II, underground application	4	Single Unit Dimension: 2.5m H 2.7m W 3.0m L Split Unit Dimension: 3.5m H 4.0m W 15.0m L	Fluor, Canada ABB	Mongolian	Design, Fabricate E house and supply HVAC system, fire detection & alarm system, utility system and installation of access control, free issue equipment inter-panel wiring etc.
2015	Alibaba IT Module	1	Single Unit Dimension: 3.6m H 3.6m W 13.8m L	Schneider Electric	China	Design, Fabricate IT Module and supply utility system, fire system accessories, cooling system accessories. and installation of free issue equipment, inter-panel wiring etc.



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2016	PDC Israel	1	Single Unit Dimension: 4.0m H 5.7m W 22.55m L	Air Products ABB	Israel	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2016- 2017	Jazan Saudi PDC	8	Single Unit Dimension: 4.2m H 5.8m W 30.3m L  Split Unit Dimension: 4.2m H 5.8m W 42.1m L	Air Products ABB	Saudi Arabia	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2016- 2017	Jazan Saudi PIB	7	Single Unit Dimension: 3.4m H 4.9m W 9.3m L	Air Products SIEMENS	Saudi Arabia	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2016	Oyu Tolgoi II Underground skid Stainless steel Kiosk	1	Single Unit Dimension: 3.2m H 1.6m W 3.2m L	Jacob ABB	Mongolian	Design and Fabricate Skid with oil drain tank; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2017- 2019	Oyu Tolgoi underground Switch Room and Kiosk	52	Single Unit Dimension: 4 m H 4m W 18m L /typical  Split Unit Dimension: 4.1m H 7.5m W 20m L /Largest split type	Worley ABB	Mongolian	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2020	Howden FAN	3	Single Unit Dimension: 4 m H 4m W 18m L	Worley ABB	Mongolian	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2020	Intel Israel project	1	Single Unit Dimension: 4 m H 5m W 18m L	Air Product ABB	Israel	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2020	JG Summit project	1	Single Unit Dimension: 4 m H 4.5m W 25m L	Fluor ABB	phillippine	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2020- 2021	Erdenet project	1	Single Unit Dimension: 4 m H 4.02m W 19.8m L	Naipu ABB	Mongolian	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2021	SAABB project	1	Single Unit Dimension: 4.115 m H 3.5 W 6m L	FL Smidth ABB	Saudi Arabia	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2021	Jubail project	3	Split Unit Dimension: 4.2 m H 5.8m W 51m L 4.2 m H 5m W 35m L 4.2 m H 5.6m W 42m L	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.



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2021	Australia Skid project	1	Single Skid Dimension: 0.2 m H 1.8m W 5.7m L	Siemens	Australia	Design and Fabricate Steel support structure for GIS.
2022	Donges SMR	2	Single Unit Dimension: 3.7 m H 4.5 W 4m L (Blast resistant type) 3.7 m H 4.5 W 6.4m L	Air Liquide	France	Design and fabricate of explosion-proof E house; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; CE certified steel structure, etc.
2022	Oyu Tolgoi Gold and Copper Mining Project, 1871	1	Single Unit Dimension: 3.5 m H 3.37 W 7.8m L	Worley ABB	Mongolian	Design and Fabricate E house & steel support piers;
2022	AP UOI Indonesia	1	Single Unit Dimension: 4 m H 4 W 10m L	Air Products	Indonesia	Design and fabricate of E house; calculate the structure stability of E-house; Design, supply and install HVAC system/Electrical Utility system; Supply, install, wiring and commission LV SWG/UPS/CVT system; Install and wire the free issue equipment and inter-panel, etc.
2022	OT M5018	2	Split Unit Dimension: 4.2 m H 4.15m W 23m L  Split Unit Dimension: 4.2 m H 7.8m W 19.8m L	Worely ABB	Mongolian	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel; Design and install fire detection & alarm system etc.
2022	MKO Australia GIS Skid	2	Single Skid Dimension: 0.2 m H 1.95m W 4.5m L 0.2 m H 1.95m W 7.06m L	Siemens	Australia	Design and Fabricate Steel support structure for GIS. 3D modelling and structural analysis
2022	OT Control Room	5	Sing Unit Dimension: 2.613 m H 4m W 12m L 2.513 m H 3m W 12m L 2.513 m H 3m W 6m L	Rio Tinto ABB	Mongolian	Design and Fabricate E house & steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel;
2022	AP NEOM HIDC	1	Split Unit Dimension: 4.2 m H 5.8m W 53.5m L	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2022	BHP Olympic Dam Rectiformers	3	Single Unit Dimension: 3.3 m H 2.65m W 9.6m L	BHP/ ABB	Australia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP NEOM ASU PDC	1	Split Unit Dimension: L*W*H=46800*5600*4500	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP PSS PDC	1	Split Unit Dimension: L*W*H=7400*3200*3800	Air Products	Indonesia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP NEOM RECTIFIER CONTAINER	55	Single Unit Dimension: 4 m H 3.3m W 11.55m L	Air Products ABB	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	Chile GIS Skid	2	Single Skid Dimension: 0.2 m H 3.25m W 6.95m L 0.2 m H 2.94m W 6.95m L	Siemens	Chile	Design and Fabricate Steel support structure for GIS. 3D modelling and structural analysis
2023	Australia SYD3 GIS Skid	2	Single Skid Dimension: 0.2 m H 2m W 8m L	Siemens	Chile	Design and Fabricate Steel support structure for GIS. 3D modelling and structural analysis
2023	AP NEOM MAIN PDC	1	Split Unit Dimension: L*W*H=60000*5400*4200	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.



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2023	AP NEOM UTILITY PDC	1	Split Unit Dimension: L*W*H=89200*5350*4200	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP NEOM BUILDING PDC	1	Single Unit Dimension: L*W*H=25900*4300*4200	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP NEOM NH3 PDC	1	Split Unit Dimension: L*W*H=80300*5800*4200	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP NEOM H2 Electrolyser PDC	10	Split Unit Dimension: L*W*H=50000*5500*4200	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP NEOM H2 MP PDC	1	Split Unit Dimension: L*W*H=62500*5600*4200	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP NEOM H2 LP PDC	1	Split Unit Dimension: L*W*H=46600*5750*4200	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	Howden Australia Grosvenor Switchroom	1	Single Unit Dimension: L*W*H=29000*4200*4000	Howden	Australia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP Rotterdam 231 PDC	1	Split Unit Dimension: L*W*H=40000*4800*4200	Air Products Hitachi Energy	Netherland	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system//Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP HYCO5 MRS MV/LV PDC, GIS PDC	2	Split Unit Dimension: L*W*H=26100*5800*4200 Single Unit Dimension: L*W*H=14320*5200*4000	Air Products Hitachi Energy	Netherland	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system//Electrical Utility system; Design and fabricate GIS PDC rooftop test facility; Install and wire the free issue equipment and inter-panel etc.
2023	HLK LP STATCOM PDC	1	Single Unit Dimension: L*W*H=8500*2500*3500	Air Products Hitachi Energy	Norway	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system//Electrical Utility system;
2023	AP Rotterdam 600 PDC	1	Split Unit Dimension: L*W*H=43000*5500*4200	Air Products Hitachi Energy	Netherland	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system//Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2023	AP NEOM STATCOM PDC	20	Single Unit Dimension: L*W*H=15100*4500*4200 L*W*H=14000*4500*4200	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system.
2024	AP NEOM CG PDC	1	Single Unit Dimension: L*W*H=33400*5600*4200	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system//Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2024	AP NEOM KOH PDC	1	Single Unit Dimension: L*W*H=16500*3800*4000	Air Products Hitachi Energy	Saudi Arabia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system//Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2024	Howden L006220 - Appin VS07 and VS08 project	3	Single Unit Dimension: L*W*H=18500*4300*4000	Howden	Australia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.



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2024	AP Botlek HYCO5 CCS PDC	1	Split Unit Dimension: L*W*H=44000*7500*4200	Air Products Hitachi Energy	Netherland	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system//Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2024	Oyu Tolgoi Gold and Copper Mining Project, Shaft 1&2	2	Split Unit Dimension: L*W*H=14900*3600*4000 L*W*H=14800*3600*4000	OT, Rio Tinto	Mongolia	Design and Fabricate E house and steel support piers; Design, supply, install, wire, integrated commission and test HVAC system/Electrical Utility system/ dry type transformer/ MCC/ DB.
2024	Simandou E-house Project	1	Single Unit Dimension: L*W*H=31500*3600*4200	Changsha Design Institute, Rio Tinto	Guinea	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system/Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2024	Simandou Datacenter and Kiosk Project	11	Single Unit Dimension: Datacenter: L*W*H=16900*6100*4000 Kiosk: L*W*H=5850*2900*3376 Kiosk: L*W*H=4850*2700*3376	Changsha Design Institute, Rio Tinto	Guinea	Design and Fabricate Datacenter and kiosk; Design, supply, install, wire, integrated commission and test the HVAC system /Electrical Utility system / Transformer / RMU / LV SWG and fire detection system.
2025	AP Dissociator PDC	2	Single Unit Dimension: L*W*H=27500*5400*4000	Air Products Hitachi Energy	Netherland	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system//Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.
2025	NOVO NORDISK HILLEROD-DK 10kV 20Mvar STATCOM	2	Single Unit Dimension: L*W*H=11800*3400*4000	Hitachi Energy	Denmark	Design and Fabricate E house; Design, supply and install HVAC system//Electrical Utility system.
2025	OT SPIC Qiyuan Trial Battery Swap Station eHouse	2	Single Unit Dimension: L*W*H=6800*3200*4000	OT, ABB	Mongolia	Design and Fabricate E house and steel support piers; Design, supply and install HVAC system//Electrical Utility system; Install and wire the free issue equipment and inter-panel etc.