

GREAT THINGS. SMALL BEGINNINGS

緣起微小、造就美好

# 台朔重工

FORMOSA HEAVY INDUSTRIES CORP.

## 發電廠暨汽電共生系統



## Power Generation & Cogeneration System

Clean Power 潔淨發電技術  
Generation Technology





# 發電廠暨汽電共生系統

規劃・設計・製造・建造・試車・售後服務

## Power Generation & Cogeneration System

Engineering, Design, Manufacturing, Construction, Commissioning  
and After-sales Service



台塑石化公司 MP-1~6  
Formosa Petrochemical Corp.  
PC 350 T/H X 5 + PC 540 T/H X 1  
96 MW X 1 + 69 MW X 2 + 34 MW X 2



台塑石化公司海豐 HP-1~5  
Formosa Petrochemical Corp. Haifeng  
PC 500 T/H X 3 + PC 540T/H X 2  
100 MW X 3 + 52MW X 2



台塑石化公司 RF-CFB  
Formosa Petrochemical Corp.  
CFB 500 T/H X 150 MW X 2





麥寮汽電公司 FP-1~3  
Mailiao Power Corp. IPP

PC 1950 T/H X 600 MW X 3

4



台塑石化公司 UP-A~C  
Formosa Petrochemical Corp.

PC 1950 T/H X 600 MW X 3

5



麥寮風力發電示範系統  
Mailiao Wind Power Plant

660 KW X 4

6



台塑企業麥寮園區 全景

Formosa Plastics Group Mai-Liao Industrial Complex



- 各類型發（儲）電設施評估與規劃  
Evaluation & planning for various power generation & storage facilities
- 各類型發（儲）電設施運轉模式分析  
Operating mode analysis for various power generation & storage facilities
- 各類型發（儲）電設施的基本設計和詳細設計  
Basic design & detail design for various power generation & storage facilities
- 各類型發（儲）電設施的建造、安裝及試車  
Construction, installation/erection and commissioning for various power generation & storage facilities
- 試車、運轉、維修人員代訓  
Training for commissioning run and O&M
- 美國 BHI-FW（前身爲 Amec Foster Wheeler）  
BHI-FW (former "Amec Foster Wheeler") as the technology licensor of Subcritical PC boilers
- 奇異公司（前身爲阿爾斯通能源）  
GE (former "Alstom Power") as the technology licensor of CFB boilers
- 台塑企業內外 80 餘套電廠建廠及運轉經驗  
Abundant experienced in construction and operation for over 80 power plants in and outside Formosa Plastics Group
- 國際知名發電設備供應商商業合作  
Partnering in business with international well-known power equipment companies

- 燃煤、燃油及燃氣發電廠、汽電共生廠、廢轉能再生能源電廠及電池儲能系統等  
各類型發（儲）電設施統包服務  
EPC integration services for various power generation & storage facilities incl. thermal (coal, oil, gas) power plants, co-generation plants, waste-to-energy plants, battery energy storage systems etc.
- 製造和銷售各類電廠設備：Manufacture & supply of power plant equipment:
- 亞臨界鍋爐：200 T/Hr ~ 1,000 T/Hr，燃煤、油  
Coal/oil firing subcritical boiler, capacity range: 200 T/Hr ~ 1,000 T/Hr
- 超臨界鍋爐：1,000 T/Hr ~ 3,000T/Hr，燃煤、油  
Coal/oil firing supercritical boiler, capacity range: 1,000 T/Hr ~ 3,000 T/Hr
- 循環流體化床鍋爐：120 T/Hr ~ 1,000 T/Hr，燃煤、石油焦  
Circulating fluidized bed (CFB) boiler, firing coal, petcoke, sludge  
capacity range: 120 T/Hr ~ 1,000 T/Hr
- 電廠 DCS 規劃 DCS planning for power plant
- 冷卻水塔：1,000 T/Hr ~ 5,500 T/Hr（每槽）  
Cooling tower, capacity range: 1,000 T/Hr ~ 5,500 T/Hr (Per Cell)



# 我們的客戶 Our customers



Toledo Power Co.

華亞汽電公司桃園 HY-1/2  
Hwa Ya Power Corp.  
Tao-Yuan, Taiwan  
PC 540 T/H X 160 MW X 2



亞太能源 AP-1  
Asia Pacific Energy Corp.  
Pampanga, Philippines  
CFB 200 T/H X 52 MW

安達能源 ANDA-1  
Anda Power Corp.  
Pampanga, Philippines  
CFB 300T/H×82MW

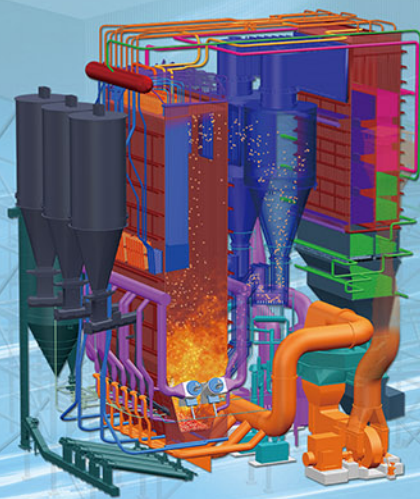
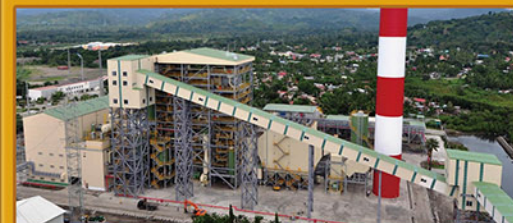
Masinloc Power Partners Co. Ltd.  
MSL #4 #5  
Masinloc, Zambales, Philippines  
Supercritical PC 1026T/H X 350 MW X2



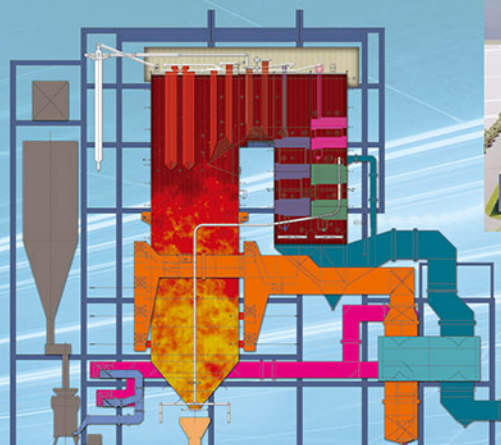
Mariveles Power Generation Corp. MPGC  
Mariveles, Bataan, Philippines  
CFB(RH) 460 T/H X 150 MW X 4

Panay Energy Development Corp. PEDC  
Iloilo, Philippines  
CFB 300 T/H X 82 MW X 2  
CFB 520 T/H X 150 MW

Toledo Power Company TPC-1A  
Cebu, Philippines  
CFB 300 T/H X 82 MW



●循環流體化床鍋爐  
Circulating Fluidized Bed  
(CFB) Boiler



●超臨界鍋爐  
SCPC Boiler



●廢轉能再生能源廠  
Waste to Energy (WtE)



台灣立方能源桃園再生能源電廠 **TCE**  
Taiwan Cube Energy Taoyuan WtE Power Plant  
Tao-Yuan, Taiwan  
WtE 400 T/d x 19.9 MW

玖龍紙業公司天津 **NDTJ-1/2**  
Nine Dragons Paper (Holdings) Ltd.  
Tianjin, China  
CFB 300 T/H X 43.56 MW X 2

印尼旭硝子化學公司 **ASC**  
PT Asahimas Chemical.  
Banten, Indonesia  
CFB 500T/H X 151.5 MW X 2



Petron Corporation **RSFFPP & RSFFB**  
Bataan, Philippines  
CFB 200 T/H x 35MW x 4  
CFB 200 T/H x 22MW x 2

SMC Consolidated Power Corp.  
**SMC LIMAY**  
Bataan, Philippines  
CFB (RH) 460 T/H X 150 MW X 4

越南台灣興業公司 **VN-1~3**  
Formosa Industries Corp.  
Dong Nai, Vietnam  
PC 540 T/H X 3



Taganito HPAL Nickel Corp. **THP-1**  
Taganito, Philippines  
CFB 300 T/H X 48 MW

Therma South Inc. **TSE-1**  
Davao, Philippines  
CFB 520 T/H X 150 MW X 2

San Miguel Consolidated Power Corp.  
**SMC MALITA**  
Malita, Davao, Philippines  
CFB (RH) 460 T/H X 150 MW X 2



● 儲能系統  
BESS



● 離岸風電水下基礎單樁式  
Offshore Wind Monopile



● 太陽能發電  
Solar Power Generation





# 製造設備

Equipments for Manufacturing

- 管排自動潛弧焊機  
Tube panel submerged Arc welding machine.
- CNC 管排彎曲機  
CNC tube panel bending machine
- CNC 鑽孔機  
CNC drilling machine for headers
- 管對管自動焊接、X-ray 及時攝影及 AOI 自動判片  
Straight tube automatic butt welding machine, and Real time X-ray examination with AOI welding quality interpretation system
- CNC 複合模彎管機 (最小彎曲半徑 1xO.D)  
CNC cold bending machine with dual radius (Min. radius 1xO.D)
- 彎管熱擠壓精整機 (最小彎曲半徑 0.65D)  
Hot Squeezing Machine (Min. radius 0.65D)
- 自動溫控退火爐  
Stress relief furnace.
- 管排管端智能切割機  
Panel end cutting machine with robot.



- ASME [S], [U], [U2] ●ISO 9001 & 45001 & 14001
- 中華人民共和國特種設備製造許可證 (鍋爐 A 級、壓力容器 A1/A2 級)  
Manufacture license of special equipment approved by People's Republic of China (Boiler A & Stationary pressure vessel A1/A2)



# 品質保證 / 環境、安全、衛生及製造許可

Quality Assurance / Environmental, Safety & Health / Manufacturing





**台塑企業**  
FORMOSA PLASTICS GROUP

## 台朔重工股份有限公司 FORMOSA HEAVY INDUSTRIES CORP.

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