

台朔重工

FORMOSA HEAVY INDUSTRIES CORP.

發電廠暨汽電共生系統



Thermal Power Generation & Cogeneration System

Clean Coal 潔淨燃煤發電技術
Power Generation Technology



發電廠暨汽電共生系統

規劃 · 設計 · 製造 · 建造 · 試車

Thermal Power Generation & Cogeneration System

Engineering, Design, Manufacturing, Construction and Commissioning



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

1



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

2



台塑石化公司 RF-CFB
Formosa Petrochemical Corp.

CFB 500 T/H X 150 MW X 2

3



麥寮汽電公司 FP-1~3
Mailiao Power Corp. IPP

4

PC 1950 T/H X 600 MW X 3



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

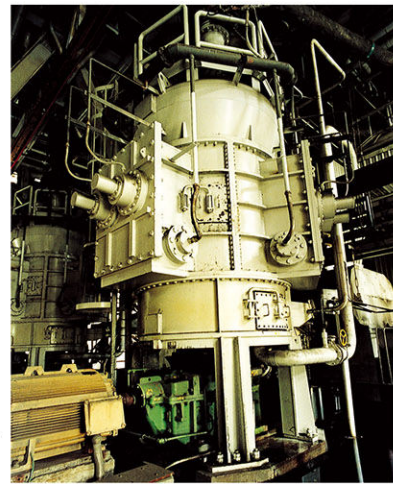
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PC 1950 T/H X 600 MW X 3



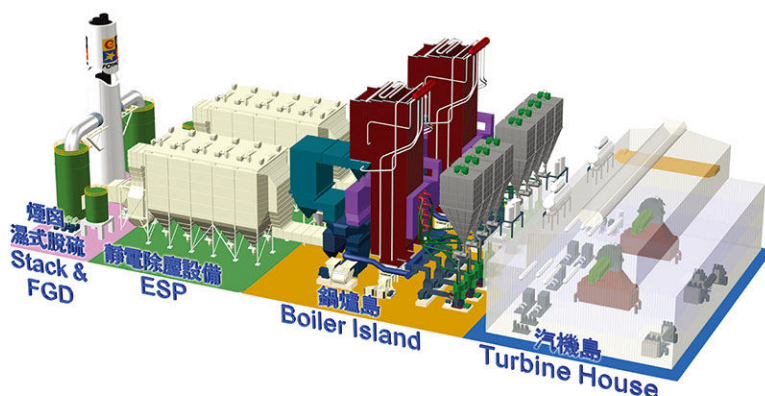
台塑企業麥寮園區 全景
Formosa Plastics Group Mai-Liao Industrial Complex

- 發電廠暨汽電共生系統評估、規劃
Thermal Power Generation & Cogeneration System evaluation and planning
- 汽電共生系統運轉模式分析
Cogeneration Plant Operation Mode Analysis
- 投資金額預估及投資可行性分析
Investment Estimate and Feasibility Study
- 鍋爐熱傳、流力設計
Boiler Heat Transfer and Fluid Dynamics Engineering
- 鍋爐本體及週邊系統基本設計、詳細設計
Basic Design and Detail Design of Boiler and Auxiliary System
- 整廠施工建造、安裝及試車
Construction、Equipment Installation and Commissioning Run Test on Turn-key Base
- 試車、運轉及維修人員代訓
Training for Commissioning Run and O&M



- 汽電共生廠整廠統包 Turnkey Services for Cogen/IPP Power Plant
- 亞臨界鍋爐：200 T/Hr ~ 1000 T/Hr，燃煤、油
Coal/ Oil Firing Subcritical Boiler, Capacity Range : 200 T/Hr ~ 1000 T/Hr
- 超臨界鍋爐：1500 T/Hr ~ 3000 T/Hr，燃煤、油
Coal/ Oil Firing Supercritical Boiler, Capacity Range : 1500 T/Hr ~ 3000 T/Hr
- 循環流體化床鍋爐：120T/Hr~1000T/Hr，燃煤、石油焦
Circulating Fluidized Bed (CFB) Boiler, Firing Coal, Petcoke, Sludge
Capacity Range : 120 T/Hr ~ 1000 T/Hr
- 電廠 DCS 規劃 DCS Planning for Power Plant
- 磨煤機：7 T/Hr. ~ 70 T/Hr. Pulverizer, Grinding Capacity Range : 7 T/Hr ~ 70 T/Hr
- 冷卻水塔：1000 T/Hr. ~ 5500 T/Hr. (每槽)
Cooling Tower, Capacity Range : 1000 T/Hr ~ 5500 T/Hr (Per Cell)
- 濕式排煙脫硫系統：適用於鍋爐容量50T/Hr ~ 680T/Hr
Wet-type Flue Gas De-sulfurization System (FGD) :
Applicable to boiler from 50T/Hr to 680T/Hr
- MGGH系統工程：適用於鍋爐容量120T/Hr ~ 500 T/Hr.
Media Gas-Gas Heater System : Applicable to boiler from 120T/Hr to 500T/Hr

- 美國 BHI-FW (前身為 Amec Foster Wheeler)
BHI-FW (Former "Amec Foster Wheeler")
- 奇異公司 (前身為阿爾斯通能源)
GE (Former "Alstom Power")
- 台塑企業內外 80 餘套電廠建廠及運轉經驗
Abundant Experience in Construction and Operation for Over 80 Power Plants in and Outside Formosa Group.



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 切割機
CNC Flame Cutting Machine
- 自動管端加工機及管對管焊接系統
Automated Tube Beveling & Welding System
- CNC 複合模彎管機 (最小彎曲半徑 1 X O.D.)
CNC Booster Cold Bending Machine With Dual Radius (Min. Radius 1 X O.D.)
- 自動溫控退火爐
Stress Relief Furnace
- 管排管端智能切割機
Robotics Panel end cutting machine



建造 / 試車

Construction/Commission

- 專業、經驗豐富之團隊
Professional and Experienced Team for Construction and Commission
- 800 噸 /400 噸 /350 噸吊車
Equipped with 800 MT/400 MT/350 MT Cranes
- 200~2000 噸油壓頂升系統
Equipped with 200~2000 MT Hydraulic Jack System



品質保證 / 安全衛生

Quality Assurance / OHSAS 18001

- ASME [S] , [U] , [U2] , ISO 9001 , OHSAS 18001



建廠實績 Reference List



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



義芳化學工業桃園 YFG-1
Yee-Fong Chemical & Industrial Co.,Ltd.
Tao-Yuan, Taiwan
PC 200 T/H X 48 MW



南亞公司錦興 JH-1/2
Nan Ya Plastics Corp.
Tao-Yuan, Taiwan
PC 200 T/H X 2



台化公司龍德 LT-2/3
Formosa Chemicals & Fibre Corp.
Yilan, Taiwan
PC 540 T/H X 2



台化公司彰化 G7/8
Formosa Chemicals & Fibre Corp.
Changhua, Taiwan
PC 350 T/H + PC 380 T/H



台化公司新港 SK-3/4
Formosa Chemicals & Fibre Corp.
Hsinkang, Taiwan
PC 350 T/H + PC 530 T/H



台灣汽電公司官田 TCC-KT
Taiwan Cogeneration Company
Tainan, Taiwan
CFB 200 T/H X 49.9 MW



台塑公司仁武 JP-1
Formosa Plastics Corp.
Kaohsiung, Taiwan
PC 540 T/H X 49.9 MW



長春化工公司大發 TCG-2
Chang Chun Petrochemical Co., Ltd.
Kaohsiung, Taiwan
PC 330 T/H X 49.9 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



實聯化工(江蘇)公司 SCJ-1~4
Shihlien Chemical Industrial (Jiang Su) Co, Ltd
Jiang Su, China
CFB 300 T/H X 4



長春化工(江蘇)公司 CSG #1
Chang Chun Chemical (Jiangsu) Co., Ltd.
Jiangsu, China
PC 225 T/H X 49.9 MW



南亞熱電(昆山)公司 KS-1~3
Nan Ya Power Plant (Kunshan) Corp.
Kunshan, China
PC 200 T/H X 2 + PC 250 T/H



南亞纖維(昆山)公司 KP-1
Nan Ya Polyester (Kunshan) Corp.
Kunshan, China
PC 200 T/H



台塑集團熱電(寧波)公司 NB-1~3
Formosa Power (Ningbo) Ltd.
Ningbo, China
PC 540 T/H X 3



寧波亞洲漿紙業公司 XGPG-1/2
Ningbo Asia Pulp and Paper Co., Ltd.
Ningbo, China
CFB 300 T/H X 62 MW X 2



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



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



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



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



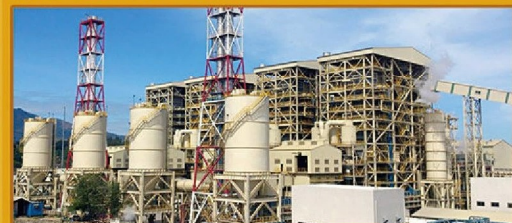
Panay Energy Development Corp. **PEDC**
Iloilo, Philippines
CFB 300 T/H X 82 MW X 2
CFB 520 T/H X 150 MW



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 × 35MW × 4
CFB 200 T/H × 22MW × 2



Cebu Energy Development Corp. **CEDC**
Cebu, Philippines
CFB 300 T/H X 82 MW X 3



印尼 IKPP 公司 **SC-6**
PT. Indah Kiat Pulp & Paper TBK.
Serang, Indonesia
PC 300 T/H X 70 MW



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



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



印尼吉偉化學(廠)有限公司 **TK-3**
PT. Pabrik Kertas Tjiwi Kimia TBK
Mojokerto, Indonesia
PC 300 T/H X 70 MW



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



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



美國台塑公司 **CB-1/2**
Formosa Plastics Corp., Texas, U.S.A.
CFB 500 T/H X 143.1MW X 2

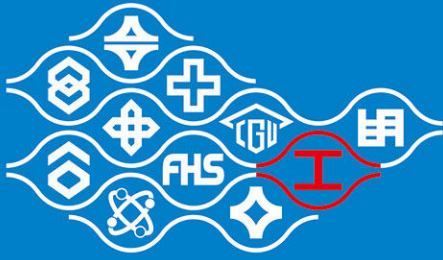


越南台灣興業公司 **VN-1~3**
Formosa Industries Corp.
Dong Nai, Vietnam
PC 540 T/H X 3



敬請期待!

Coming Soon!



台塑企業
FORMOSA PLASTICS GROUP

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