



COMPANY PROFILE

# CONTENTS

INTRODUCTION	03	OUR BL
ABOUT MARTECH JSC		Scop
History	04	Majo
Core Value	06	<b>▶</b> B
HSE Management System	06	► E
Organization Chart	07	► S
OUR SERVICES		▶ F
One-Stop Shop	08	<b>▶</b> W
Design & Engineering Team	09	<b>▶</b> G
Engineering Methodology	09	QUALIT
Engineering Partners	10	Quali
PRODUCTION		Certi
Production Facility	12	CUSTO
Workshop Location	12	Indus
Production Capacity	13	Our N
Equipment List	14	Key (
Key Equipments	16	Refer

OUR BUSINESS	
Scopes of Work	18
Major Products	18
► Boiler	20
► Energy Solutions	21
► Steel Structure	21
► Flue Gas Treatment	21
► Wind Energy	22
► Glove Dipping Line	22
QUALITY MANAGEMENT SYSTEM	
Quality Assurance and Control	23
Certifications	23
CUSTOMER BASE	
Industries	24
Our Markets	24
Key Customers	26
Reference Projects	28



ABOUT US



# THREE DECADES OF ENGINEERING EXPERTISE

Founded in 1993 as a specializer in Steam Boilers and Pressure Vessels, MARTECH JSC has grown to become an energy solutions provider with a wide range of offerings: Boilers with various technologies and fuels, Wasteto-Energy, Co-Generation, Flue Gas Treatment, Wind Energy, Steel Fabrication, Glove Dipping Line...

Built upon 3 decades of engineering expertise, our strong 500+ workforce is capable of delivering turnkey or parts of the project included Design & Engineering, Procurement, Fabrication, Operation & Maintenance; all compliant with the most stringent requirements and certifications.

# **500+ PROFESSIONALS DEDICATED TO CUSTOMER'S SUCCESS**



63

General

**Production** 

& Engineering



Parts

159 Non-pressure



Production Management



**Quality Assurance** & Quality Control









16

**Total Workforce** (Exclude Back Office)

# ABOUT MARTECH JSC HISTORY

Of Growth Through Innovation



# **Formative Years**

1993 Founded in HCMC

2000

2004

Liquid Fuel Boiler

Chain Grate Boiler &
Thermal Oil Heater

2011 First Biomass Boiler



# **Standardization**

Achieve ISO 9001 Certificate

2015

License HRSG
 Technology from
 Germany
 First BFB Boiler by

local company

• Open 8.4 ha Nhon

Trach Factory

Achieve ASME

Certificate S, U

Export to Indonesia & Philippines

 Key Account Knauf (Germany): Project Haiphong

2013 - 2015



# **Technical Advancements**

First BFB Thermal Oil Heater 3 Gcal/h

2016

2017

2018

 First HRSG for Chemical Plant: Evonik (Mexico)

Key Account Knauf (Germany): Project Philippines

► First BFB Biomass Boiler by a local company

First WtE BFB Boiler for Pulp & Paper Plant

► High efficiency CNG Firetube Boiler (eff. >95%, 6TPH)

 First Reciprocating Hot Water Boiler 12 Gcal/h



# **Environmental Solution**

Relocate HQ to Thuan Hai Tower

 EPC project to install first Co-Generation & WtE Plant in Vietnam

2019

2020

 WtE Plant for Industrial Sludge Treatment

Export to S. Korea

First HRSG to utilize
Waste Heat for
Power Generation

Enter Australia & Japan Market

► EPC Contract for 4000 tons/h Material Handling System



# **Beyond Boiler**

# R&D and Investment in New Business

High-capacity Glove Dipping Line:

• EPC Contract: S&S Glove Factory

► High-capacity BFB Thermal Oil Heater 2 x 18 Gcal/h

2021

Enter Wind Tower market

• VPL Wind Farm (30MW)

2021-

2019 - 2020

2016 - 2018

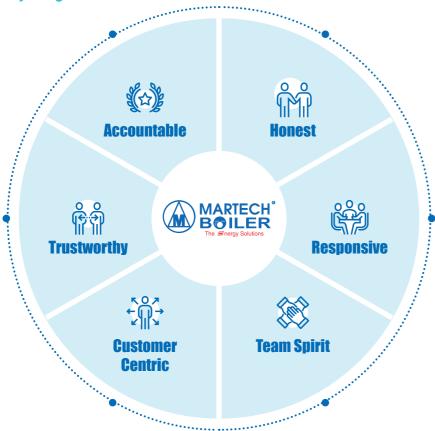
1993 - 2012

06 \_\_\_\_\_\_ MARTECH JSC - COMPANY PROFILE ABOUT US \_07

# **ABOUT MARTECH JSC**

# **CORE VALUE**

**Principle of Everything We Do** 



# **HSE MANAGEMENT SYSTEM**

We Do Care About Our Employee, and Our Planet



# Health

- Health promotion
- Personal protective equipment (PPE) management
- Working environment measurement
- First aid
- Annual health examination
- Medical insurance



# Safety

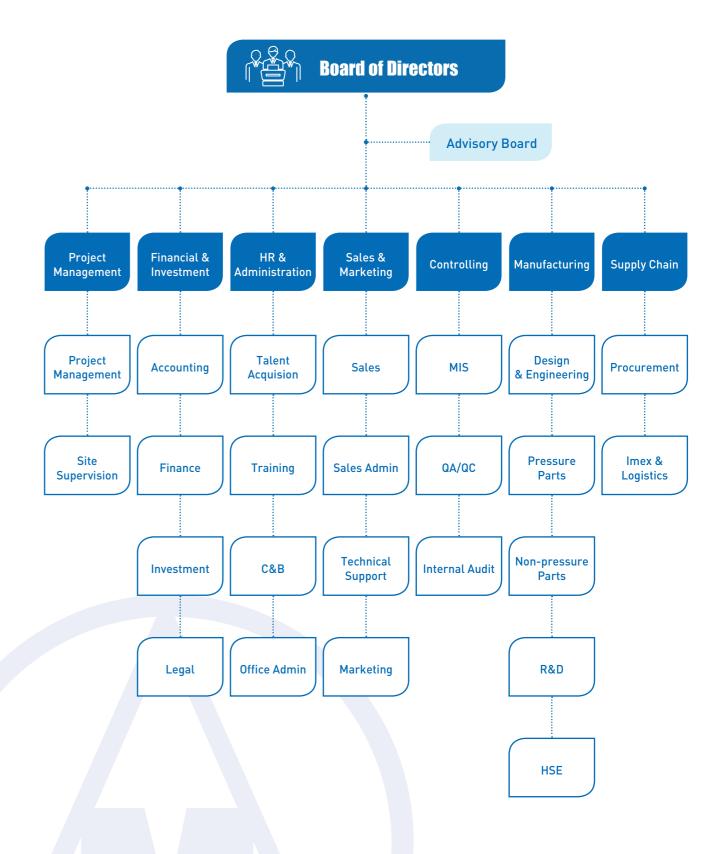
- Daily patrol
- Safety PPE inspection
- Safety weekly report
- ► Sub-contractor coaching
- Hazards detecting
- Accident prevention
- Risk assessment and control
- Fire protection
- Orientation and training
- Emergency response and action



# **Environment**

- Daily housekeeping
- Environmental impact assessment
- Minimization environmental damages
- Separating collection & recycling

# **ORGANIZATION CHART**



08 \_\_\_\_\_\_ MARTECH JSC - COMPANY PROFILE OUR SERVICES \_09

# **OUR SERVICES**

# **ONE-STOP SHOP**

For All of Your Engineering Needs







# **DESIGN & ENGINEERING TEAM**

From Concept to Solution

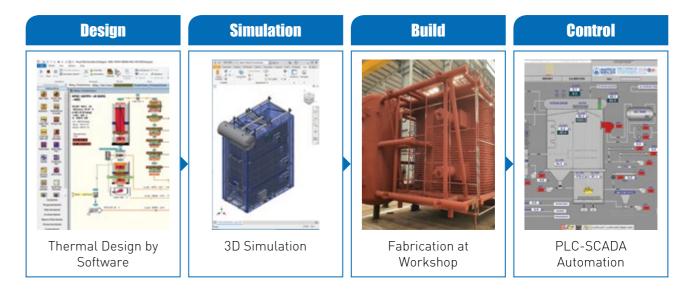


# We offer a wide range of Engineering Services include concept design and customized solutions

- ▶ Mechanical engineering design and modelling using 2D/3D CAD software
- ► Thermal/Fluid Flow/Structural simulation and optimization
- ▶ Piece-part selection and post development Cost Reduction

# **ENGINEERING METHODOLOGY**

Our Approach: Design - Simulation - Build - Control



# **OUR SERVICES**

# **ENGINEERING PARTNERS**

Design Partner: MARTECH is an Official Licensee since 2015

# **About the Design Partner**

- ▶ With over 6,100 boiler and heater references and more than 80,000 megawatt capacity of installed systems worldwide, The Partner has a unique history of design expertise. Sharing and collecting knowledge is at the heart of the Partnership.
- ➤ Started in Berlin in the late 1920s, The Partner's energy system design services are being applied worldwide with a long history of success. The Partner's designs cover multiple industries and a large variety of solid, liquid and gaseous fuels.

# MARTECH benefits from the Partnership



Leading technology provider



Cutting edge innovation



Engineering and design support



Specialist knowledge for partners

# **Specialized Software Partner: Cooperation Agreement since 2016**

# **About the Software Partner**

- ► Established in 1975, The Partner's main activities were piping calculations for nuclear power stations, the automotive and chemical industries, together with the development of computer programs.
- ► The Partner is the market leader in Germany with the programs to design and simulate power plant, heat generator & exchanger system since 1995. A long side a CAD and a pipeline calculation that also have the absolute best specialists in the field of fluid and structural dynamics and FE calculations.

# **Design & Simulation Software**

A world leading program for designing Power Plants, Boiler System, Heat Exchanger Equipment and Heat Balance with more than 100 different templates available.

MARTECH uses this software to calculate and simulate the thermodynamics for all of our Boiler and Steam Products.

### Reference

The Partner has designed hundreds of largescale boilers, some are world largest:

- Project for Talara Peru Refinery: 332TPH, 518°C, 90barg
- Project for JSC Metafrax, Guubakha, Russia: 240TPH, 280°C, 41barg



MARTECH JSC - COMPANY PROFILE

# PRODUCTION FACILITY 8.4 ha Factory with Modern Equipment 1 2 3 4 6 BHORD BHOR

# (1) WORKSHOP 4 – WAREHOUSE

- Dimensions: 80m(W) x 100m(L)
- Application: Warehouse, Cutting and Machining machineries

# 2 OFFICE BUILDING 2

- Dimensions: 20m(W) x 20m(L)
- Application: Production, QA/QC

# (3) WORKSHOP 1 – NON PRESSURE

- ▶ Dimensions: 72m(W) x 200m(L)
- Application: Combustion chambers, Vessels, Dust collectors, Ducting, Steel structures, Stack

# 4 WORKSHOP 2 - PRESSURE

- ► Dimensions: 72m(W) x 200m(L)
- Application: Steam drums, Membranes, Convection tubes, Thermal oil coils, Trial assembling

# (5) WORKSHOP 3 - FINISHING

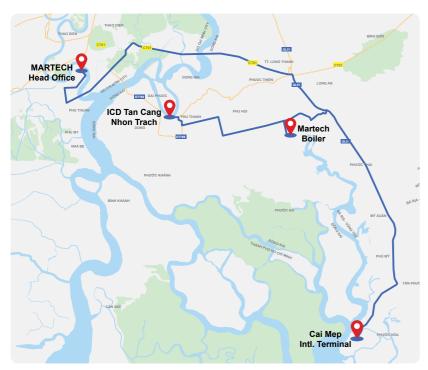
- Dimensions: 72m(W) x 170m(L)
- Application: Finished products, Painting room

# 6 OFFICE BUILDING 1

- ▶ Dimensions: 20m(W) x 20m(L)
- Application: Procurement, Technical Department

# **WORKSHOP LOCATION**

Strategically Located Near Major Ports for Maritime Transportation





# MARTECH Head Office 60 km

A A

# Cai Mep Intl. Terminal

Deepwater Port 36 km



# Tan Cang - Nhon Trach

Inland Port 17 km

Distant From



MARTECH Factory Nhon Trach III Industrial Zone Nhon Trach Dist., Dong Nai



# **PRODUCTION CAPACITY**







Non-Pressure Parts 8,000 TONS



**Annual Capacity** 

**12,000 TONS** 

4 \_\_\_\_\_\_ MARTECH JSC - COMPANY PROFILE PRODUCTION \_\_\_\_\_

# **PRODUCTION**

# **EQUIPMENT LIST**

# PRESSURE PARTS WORKSHOP

Equipment	Specification	Origin	Qty.	Unit
Plate Rolling CNC Machine	Wmax: 3,000 mm; Tmax: 140 mm	Italia	03	set
Plate Beveling Machine	Length: 24,000 mm; Width: 1,500 mm		02	set
Automatic Welding Machine Saw Welding Machine	Height: 4,000 mm; Length: 4500 mm	USA	01	set
Steam Drum Milling Machine	Length: 6750 mm; Width: 4600mm; Height: 5150 mm	Japan	01	set
Tube Expansion Machine	Ф21 – Ф42	Japan		set
Tube Bending Machine	4 Inch – Φ½ Inch; Rmax: 400 – Rmin: 34	Germany	02	set
Tube To Tube Welding Machine	Gtaw (Tig); Length: 36m Φ 6 Inch	Germany	01	set
Tube Shot Blasting Machine	06 Turbine; Length: 12,000 mm; Width: 2,000 mm; Height: 500 mm	Netherlands	01	set
Fin Bar Calibrate Machine		Germany	02	set
Membrane Wall Welding Machine Saw Welding Machine	04 Torch; Width: 1200 mm; Length: 36,000 mm	Germany	01	set
Membrane Wall Cutting Machine	Max Cut: 85 mm; Speed: 5900 rpm; Power: 4400W At 6.2bar	Germany	03	set
Membrane Wall Bending Machine	Width: 2000mm	Germany	01	set
Crane	10 tons – 30 tons – 50 tons	Korea	11	set



# NON-PRESSURE PARTS WORKSHOP

Equipment	Specification	Origin	Qty.	Unit
Drilling And Sawing CNC Machine	Shape: U, I, H, V Length: 12,000 mm; Height: 500 mm; Width: 1,000 mm	Germany	01	set
Drilling And Cutting CNC Machine Plasma & Oxygen/Gas	Length: 12,000 mm; Thickness: 5 mm – 100 mm; Width: 2,600 mm	Germany	01	set
Plasma Cutting Machine Plasma & Oxygen/Gas	Length: 12,000 mm; Thickness: 5 mm – 12 mm; Width: 1,500 mm	Vietnam	03	set
Punch & Shearing CNC Machine	Shape: Plate, U, V Length: 12,000 mm; Width: 500 mm; Thickness: 22 mm Hole Ф 26 mm	Germany	01	set
Plate Press Brake Machine	Length 6,000 mm; Thickness 16mm	Germany	01	set
Shot Blasting Machine	06 turbine; Length: 12,000 mm; Width: 2,500 mm; Height: 500 mm	Netherlands	01	set
Welding Machine	SMAW 300; MIG/MAG 505S; GTAW 400	G7	120	set
Crane	1.5 tons – 5 tons – 10 tons – 30 tons	S. Korea	24	set

# **PAINTING WORKSHOP**

Equipment	Specification	Origin	Qty.	Unit
Automatic Shot Blasting Machine	16 turbine; Width: 3,000 mm; Height: 1,000 mm	Germany	01	set
Manual Shot Blasting Room	Length: 15,000 mm; Width: 7,500 mm; Height: 15,000 mm	Germany	01	set
Painting Machine	63.1	Korea	06	set
Crane	10 tons – 50 tons	Korea	04	set

# **TEST EQUIPMENT & OTHERS**

Equipment	Specification	Origin	Qty.	Unit
Balancing Machine (For Fans)	Max Load: 3,000 kg; Diameter: 15-120 mm; Power: 7,5kw. Measure Instrument: CAB820	Germany		set
Radiographic Testing (RT)	Ir. 192 source	USA, EU	02	set
Ultrasonic Testing (UT)		USA, EU	02	set
Magnetic Particle Testing (MT)	AC Yoke	Korea	02	set
Phased Array Ultrasonic Testing (PAUT)		Canada	01	set

# **PRODUCTION**

# **KEY EQUIPMENTS**



**Drilling & Sawing CNC Machine** 



**Shearing CNC Machine** 



**Shot Blasting System** 



Plate Roll CNC Machine



**Automatic SAW Station** 



**Tube Bending CNC Machine** 



Membrane Water Wall Bending Machine



Membrane Water Wall Welding Machine



Plate Cutting & Drilling CNC Machine



Membrane Water Wall Cutting Machine







AN TOÀN ③ TRÊN HẾT



Crane 30 Ton (7 units)



Crane 10 Ton (24 units)



Crane 1.5 Ton (14 units)

# **OUR BUSINESS**

# **SCOPES OF WORK**

From Design to Installation







Consulting

Engineering

**Procurement** 







**Fabrication** 

Construction

Commissioning

# **MAJOR PRODUCTS**







Waste To Energy











Piping

MARTECH JSC - COMPANY PROFILE **OUR BUSINESS** 

# **OUR BUSINESS**

# **BOILER**

Advanced Technology - Multi-Fuel - High Performance

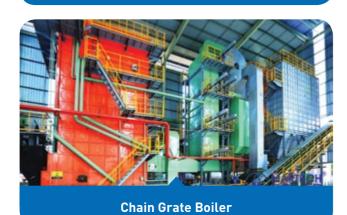




Bubbling Fluidized Bed Boiler (BFB) **Liquid Fuel Boiler** 

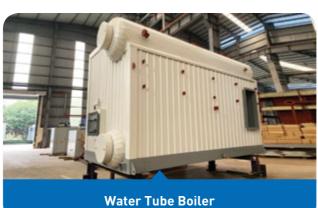






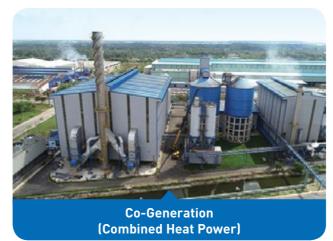






# **ENERGY SOLUTIONS**

Reduce Waste - Increase Efficiency





**STEEL STRUCTURE** 

**Build on a Strong Foundation** 

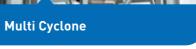




# **FLUE GAS TREATMENT**

**Control Emission and Protect Environment** 



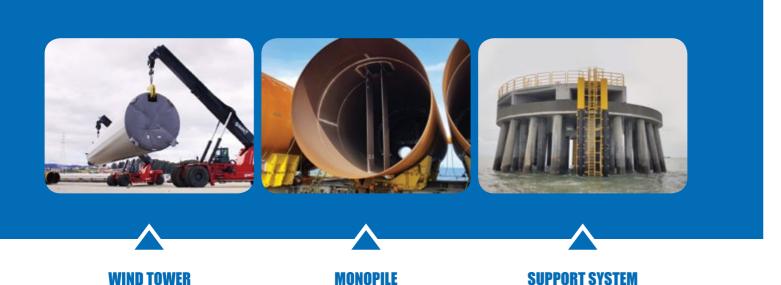




MARTECH JSC - COMPANY PROFILE **OUR BUSINESS** 



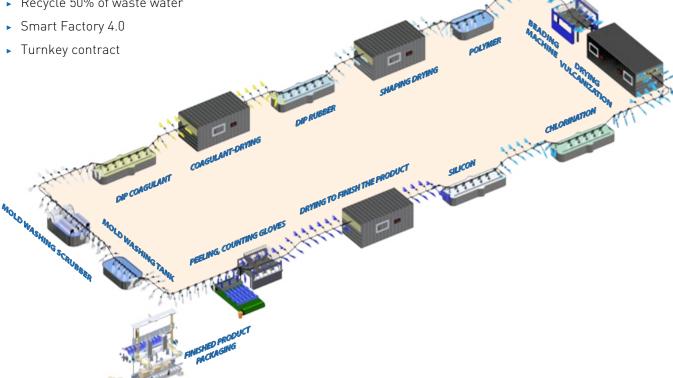
**Wind Tower and Support System** 



# **GLOVE DIPPING LINE**

**High Capacity Rubber Glove Dipping Line** 

- ► Capacity: Up to 42,000 pcs/h
- ► Fully customized to customer needs
- ▶ Recycle 50% of waste water



# **QUALITY MANAGEMENT SYSTEM**

MARTECH has implemented a Top Quality Management Direction for Quality Assurance in order to achieve customer satisfaction.

# **Quality Management Structure**



# **Quality Implementation Activity**

- Attentive Inspection (ITP)
- ► Effective Quality System (KPI, ERP)
- ► Raw Material Quality Control
- Manpower Training

# **QUALITY ASSURANCE & CONTROL**



# **CERTIFICATIONS**









ISO 9001:2015

ASME (S)

ASME (U)

National Board (R)

# **CUSTOMER BASE**

# **INDUSTRIES**

**Expert in Engineering, Steam, Thermal and Energy – We Proudly Serve** 



**Power Generation** 

**Pharmaceutical** 



**Chemical** 



**Renewable Energy** 



Food & Beverage



Metallurgy

**Sugar Mill** 



Rubber



Oil & Gas



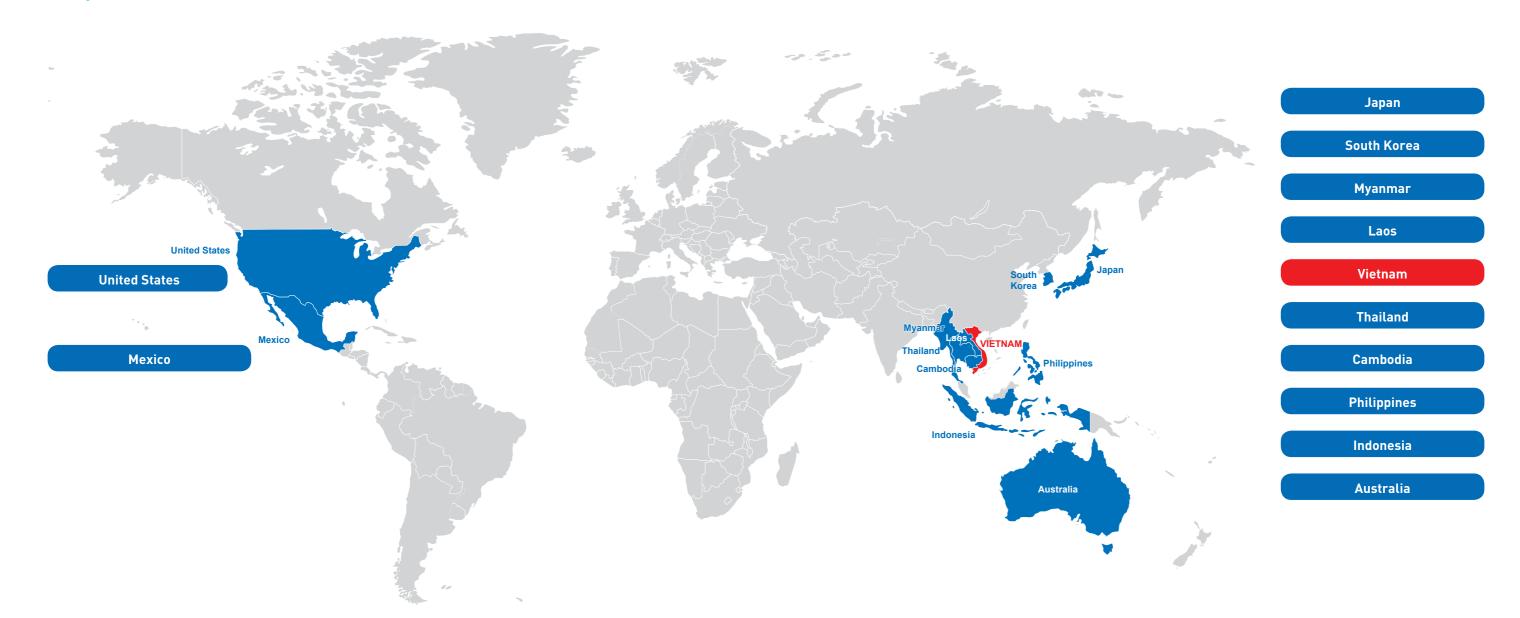
**Textile** 



**Feed Mill** 

# **OUR MARKETS**

We Have Provided Products and Solutions to Major Domestic and International Customers



# CUSTOMER BASE KEY CUSTOMERS



















































CUSTOMER BASE















































# **CUSTOMER BASE**

# **REFERENCE PROJECTS**

Pulp & Paper



### TCE - Dong Hai Paper

EPC Contractor

### BFB Steam Boiler 2 x 75 TPH

Specification:

- ▶ Steam Temperature: 480°C
- Operating Pressure: 71 barg
- ► Power Output: 19.5 MW

Fuel: Coal, Biomass

Location: Ben Tre, Vietnam

Special Purpose: Cogeneration



### Thuan An Paper

### BFB Steam Boiler 35 TPH

 ${\sf Specification:}$ 

- ► Steam Temperature: 180°C
- ► Operating Pressure: 12 barg

Fuel: Coal, Recycled Paper Waste, Sludge

Location: Binh Phuoc, Vietnam

Special Purpose: Waste to Energy



# **Hung Ha Paper**

### BFB Steam Boiler 30 TPH

Specification:

- ► Steam Temperature: 180°C
- Operating Pressure: 10 barg

Fuel: Coal, Recycled Paper Waste, Sludge

Location: Hung Yen, Vietnam

Special Purpose: Waste to Energy



# Xuan Mai Paper

### **BFB Steam Boiler 30 TPH**

Specification:

- ► Steam Temperature: 180°C
- Operating Pressure: 10 barg

Fuel: Coal, Recycled Paper Waste

Location: Ho Chi Minh City, Vietnam

Special Purpose: Waste to Energy

### **Chemical & Textiles**



### **Hyosung Vina Chemical**

### Water-tube Boiler 110 TPH

Specification:

- ► Steam Temperature: 480°C
- ▶ Operating Pressure: 52 barg

Fuel: Off Gas, Pyrolysis Gasoline, NG/LPG

Location: Ba Ria – Vung Tau, Vietnam

Special Purpose: Co-Gen, Waste to Energy



# **Samil Hi-Knit**

### Chain Grate Thermal Oil Heater 16 Gcal/h & BFB Steam Boiler 25 TPH

Specification:

- ► Thermal Oil Temperature: 260°C
- ► Steam Temperature: 190°C
- Operating Pressure: 12 barg

Fuel: Biomass, Coal

Location: Dong Nai, Vietnam



# **Hwaseung Dae Young Textile**

# Chain Grate Thermal Oil Heater 20 Gcal/h & Evaporator 20 TPH

Specification:

- ► Thermal Oil Temperature: 300°C
- ► Thermal Oil Pressure: 6.5 barg
- ► Steam Temperature: 190°C
- ▶ Operating Pressure: 12 barg

Fuel: Biomass, Coal

Location: Dong Nai, Vietnam



# **Polytex Far Eastern**

### Chain Grate Thermal Oil Heater 15 Gcal/h

Specification:

- ► Thermal Oil Temperature: 380°C
- Thermal Oil Pressure: 14 barg

Fuel: Coal

Location: Binh Duong, Vietnam

High pressure, high temperature thermal oil heater

# **CUSTOMER BASE**

# **REFERENCE PROJECTS**

Food & Beverage



### **Marubeni (Iguacu Coffee Plant)**

### BFB Steam Boiler 2 x 30 TPH (2 units)

Specification:

- ► Steam Temperature: 215°C
- Operating Pressure: 20 barg

Fuel: 100% Biomass (rice husk, wood chip, spent coffee ground)

Location: Ba Ria – Vung Tau, Vietnam



# Ajinomoto (Vietnam)

# Chain Grate Steam Boiler 3 x 30 TPH (3 units) & 1 x 40 TPH (1 unit)

Specification:

- ► Steam Temperature: 190°C
- ► Operating Pressure: 12 barg

Fuel: 100% Biomass

Location: Dong Nai, Vietnam



# **Universal Robina (URC)**

### Chain Grate Steam Boiler 2 x 15 TPH

Specification:

- ► Steam Temperature: 200°C
- Operating Pressure: 16 barg

Fuel: Biomass, Coal

Location: Binh Duong, Vietnam



# Nissin (Vietnam)

### BFB Steam Boiler 2 x 10 TPH

Specification:

- ► Steam Temperature: 180°C
- ▶ Operating Pressure: 10 barg

Fuel: Biomass, Coal

Location: Binh Duong, Vietnam

### **Other Industries**



### **S&S Glove Corporation**

EPC Contractor

High-Capacity Glove Dipping Line 42,000pcs/line/h & BFB Thermal Oil Heater 2 x 18 Gcal/h (2 units)

Specification:

- ► Thermal Oil Temperature: 300°C
- ► Thermal Oil Pressure: 6.5 barg

Fuel: Biomass, Coal

Location: Ba Ria – Vung Tau, Vietnam



### **Knauf Gypsum**

### Chain Grate Steam Boiler 25 TPH & Hot Gas Generator 5 Gcal/h

Specification:

- ► Steam Temperature: 236°C
- ▶ Operating Pressure: 30 barg

Fuel: Biomass, Coal

Location: Hai Phong, Vietnam



# **Evonik Industries (Mexico)**

# Heat Recovery Steam Generator (HRSG) 21 TPH

Specification:

- ► Steam Temperature: 276°C
- ▶ Operating Pressure: 60 barg

Fuel: Off Gas

Location: Mexico

Recover Waste Heat from Off Gas Burning



# **Cai Mep Port**

### Material Storage and Conveyor System

Specification:

- ► Storage capacity: 200,000 tons
- ► Transferring capacity: 4,000 T/h

Location: Ba Ria – Vung Tau, Vietnam Coal Handling System





# MARTECH JOINT STOCK COMPANY

### **■ HEAD OFFICE**

Thuan Hai Tower, Road 24, Tan Thuan EPZ, District 7,

Tel: +84 (28) 3622 6869 Hotline: +84 (34) 244 2266

### # FACTORY

No. 2 Street, Nhon Trach III Industrial Zone - Phase 2, Tel: +84 (251) 356 6345 Fax: +84 (251) 356 634

https://martech.com.vn



