



ISO 9001:2015 | ISO 45001:2018

# COMPANY PROFILE

A One-Stop Solution  
With Technology Wave  
Engineering

Version  
2024

## MALAYSIA

### Technology Wave Engineering Sdn. Bhd. (1148181-W)

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# OVERVIEW

# ABOUT US

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Technology Wave Engineering established since year 2013 and providing quality service in both industrial and commercial sectors. In year 2015, company expands the business and renamed the company as Technology Wave Engineering Sdn. Bhd. We are capable and experience in designing and constructing HVAC and Process Control System. We have a team of experience Project Manager and Engineers to provide highest level of professionalism, high quality of installation to serve our client's needs and ensuring customer satisfaction.

## VISION

The word "VISION" is followed by a circular icon containing a stylized crosshair or grid pattern.

To be the company of choice for our clients in our global markets, for all our business, driven by entrepreneurial spirit, cutting-edge technology and execution excellence

## MISSION

The word "MISSION" is followed by a circular icon containing a target symbol with an arrow hitting the bullseye.

We will deliver reliable, high-quality solutions for infrastructure, always ensuring that integrity, safety and sustainability are at the heart of everything we do.



# OUR VALUES

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## Integrity

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We behave ethically and are respectful, open, and honest in our business and personal lives.



## Quality Engineering

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We provide high-quality engineering to meet client needs.



## Client Satisfaction

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We engage our clients and the communities we serve so that they know us, trust, and value our services.



# OUR EXPERTISE

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We can integrate, design, develop, build, upgrading, supporting and deliver reliable manufacturing facility in diverse domain of manufacturers such as:

- **Semiconductor Industries**
- **Electronic Industries**
- **Power (solar energy, green energy and energy saving)**
- **Automotive Industries**
- **Glove Industries**

# OUR BUSINESS

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## Services & Solution

### HVAC Control System

- Centralized Control System for Chiller, AHU, FCU and etc
- Local Control System for Chiller, AHU, FCU and etc

### Process Control System

- Fluid Control System
- Dosing System

### Building Automation System

- SCADA Monitoring System such as Wonderware, Citech, IGSS
- Building Management System
- RF and GSM Modem Communication

### Mechanical Design and Installation Work

- Centralized Air-Conditioning Design and Installation Work
- Piping Installation Work for ACMV and Process Industries
- Ducting Installation Work
- Steel Structure and Platform Installation Work





# OUR SERVICES

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## Services & Solution

### Electrical Control System

- Power Distribution Panel
- Motor Control Centre (MCC) Panel
- MSB Panel
- Electrical Control Panel

### Control Panel

- PLC and DDC Control Panel
- Alarm Panel
- Temperature Control Panel

### Energy Saving Solutions

- Lighting Control System
- Inverter

### Security System

### CCTV System

### Wiring Installation Work

- Installation of Signal Control Cable (Shielded or Unshielded Cable)
- Installation of Power cable (Armoured or Non Armoured Cable)
- Installation of Communication cable (Cat-5e, Cat-6, RS232, RS422, RS485, Coaxial Cable)
- Installation of Fiber Optics Cable and Splicing



# OUR SERVICES

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## Services & Solution

### **Project Consulting & Contracting**

Proposed and billed on per-project and per-milestone basis, project consulting and contracting offers clients a way to harness our specific requirements and use our expertise to develop and/or implement plans, from conceptual planning to turnover.

### **Project Management**

Our project management services include defining client needs, new design & design change, project supervision, project claim, system testing & commissioning, contract administration and warranty inspection. Projects include new facilities, renovations, repairs and remodeling.

### **Design and Engineering**

Our engineers will assist you in system design, development and engineering to meet your specifications and requirements.

### **Maintenance**

Our engineers can troubleshoot and verify the conditions of your control devices and recommend either for service or replacement.

### **On-site support**

Our engineers are available 24/7 on-site support and help you to troubleshoot and solving your control or automation system.

# OUR JOB PROFILE

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With extensive experiences in 'Design & Built' concept more than 10years, Technology Wave Sdn Bhd have been successfully completed and continue to serve many well established local and international clients.

## 2013

**Singapore General Hospital**  
- HVAC System Troubleshooting Work

**Heraues Materials Malaysia Sdn. Bhd.**  
- Mechanical and Electrical Work

## 2014

**Queensbay Mall Renovation Project**  
- HVAC Control System, Electrical Cabling Work, Piping and Ducting Installation Work

## 2015

**GN Resound Project**  
- HVAC Control System, Electrical Cabling Work, Piping and Ducting Installation Work, PA System, Networking

**UOB Bank Renovation Project**  
- HVAC Control System, Electrical Cabling Work

**Latexx MC66 Project**  
- Conveyor Control System and Electrical Work

**Infineon Project**  
- Scrubber Control Wiring Work

**SAM Precision**  
- Air Cooled FCU c/w Piping and Ducting and Electrical Installation Work

**B-Braun B1A Project**  
- Control System and Electrical Cabling Work

## 2016

**B-Braun B1A Project**  
- Control System and Electrical Cabling Work

**Biosis Heater Control**  
- Heater and Electrical Installation Work

**Konica Building 2 Conversion Project**  
-HVAC Monitoring System, Fire Alarm SMS System

**Harimic Project**  
- Air Cooled FCU c/w Piping and Ducting and Electrical Installation Work

**Hoya Expansion Project**  
- HVAC Control System, BMS Signal Cabling Work, Electrical Control System Installation Work

**HT Cable Replacement Work at Yokowo**  
- Underground Electrical Cabling Work

**Intel MSB Upgrade Project**  
- Upgrade MSB Project

**IKBN Upgrade Air-Con Project**  
- HVAC Control System and Electrical Installation Work

**General Hospital Seberang Jaya**  
- HVAC Control System and Electrical Installation Work

**Eastin Hotel Project**  
- HVAC Control System and Electrical Installation Work

**Gurney Plaza Basement Food Court Expansion Project**  
- Electrical Installation Work

# OUR JOB PROFILE

## **Lintec Exhaust Reclaim System**

- Control and Electrical Installation Work

## **Lake Region Project**

- Electrical Installation Work

# 2017

## **DB Schenker RH Control Project**

- Heater and Electrical Installation Work

## **Yokowo Install 110V LV Transformer Project**

- Electrical Installation Work for 110V LV Transformer and Hockup Wiring Work

## **Stesen Janaelektrik Sultan Azlan Shah, Bersia, Temenggor, Kenering, Chenderoh Radar Level Sensors Installation Project**

- Radar Water Level Sensors Installation Work

## **OSRAM Kulim Project**

- ELV Installation Work for CCTV, Card Access and Door Monitoring

## **TP Concept Unit 5 Project**

- Electrical Installation Work for Machine

## **Inokom Project**

- CCTV and PA System Installation Work

# 2018

## **CE Technology Project**

- Mechanical and Electrical Installation & HVAC Control System for Clean Room and Ice Tank Control System

## **JM Recycling Project**

- Electrical Installation Work for Submain Cable and Machine

## **Hotayi Batu Kawan Project**

- Electrical Installation Work for HVAC System

## **Minabea Chiller Upgrading Project**

- Electrical Installation Work for Chiller, CHWP, CDWP and Cooling Tower

## **Stesen Janaelektrik Prai Project**

- RO System Control & Electrical Cabling Work

## **Mondelez Biscuit Line Upgrading Work**

- Electrical and Control System Installation Work

# 2019

## **Jinko Solar P1, P3, P7 68K Project**

- Electrical Installation & HVAC Control System

## **Stesen Janaelektrik Sultan Azlan Shah, Bersia, Temenggor, Kenering, TNBR Radar Level Sensors Installation Project**

- Radar Water Level Sensors Installation Work

## **Sibelco Project**

- Equipment Remote Panel Installation

## **Menz & Gasser Asia Project**

- Mechanical and Electrical Installation Work for Ammonia Plant, Cold Room, Bottle Line and Bertocchi Machine

## **Luxury Food Project**

- Mechanical and Electrical Installation Work for Ammonia Plant, Cold Room and ASRS

## **Continental Office Renovation Project**

- Electrical Installation Work for Lighting and Power

## **M-SAT Project**

- Control and SCADA Monitoring System for HVAC System

## **Showa Denko Chilled Water System Upgrading Work**

- Electrical and Control System Installation Work



# OUR JOB PROFILE

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## 2020

**Visco Technology Project**

- Electrical Installation & Control System Works for Heater Tank and RO System

**KGPA Project**

- Thermal Energy Storage Tank Control System

**Dissolved Oxygen Control for Sewage Tank**

- Electrical Installation & Control System

**Jinko Solar P4, P5, P6 TR Project**

- Electrical Installation & HVAC Control System

**Chiller Replacement Work at Lintec**

- Electrical Installation Work

**Inokom Porche Project**

- Electrical Installation & HVAC Control System

**CCTV Installation Work at Visco Technology Project**

- CCTV Structure System with cabling work.

## 2021

**Heater Installation Work at TOWA-M**

-Electrical and Control System Installation Work

**Jinko Solar P1 Expansion Project**

-Electrical Installation & HVAC Control System Work

**Jinko Solar P7 182 Expansion Project**

-Electrical Installation & HVAC Control System Work, Clean Room Setup Work

**Dust Collector Installation Work at Jinko Solar P1**

-Electrical Installation Work

**Menz & Gasser Expansion Project**

-Electrical Installation Work for OHMIC Plant

**Ecomedi Glove Malaysia New Dipping Line**

-Control Cabling and Installation Work for Dipping Line

**Ivory Glove Project**

-Control Cabling and Installation Work

## 2022

**Chiller Replacement Work at Lintec**

-Electrical Installation Work

**Jinko Solar P7 182 Renovation Project**

-Electrical Installation & HVAC Control System Work, Clean Room Setup Work

**CE Technology Phase 3 Project**

-Electrical Installation & HVAC Control System Work for New Clean Room

**Fuji SCM1 Project**

-SCADA and Control System Work

**LONGI Kuching WWTP New Plant**

-Electrical and Control System Cabling Installation Work

**Hotayi Expansion Project**

-Electrical and Control System Cabling Installation Work

**Ibiden Renovation Project**

-Electrical and Control System Cabling Installation Work

**Jinko P7 New Texturing Clean Room**

-Electrical Installation & HVAC Control System

**Jinko P7 TMA Room**

-Electrical Installation & HVAC Control System

**Jinko P7 72W Project**

-Electrical Installation & HVAC Control System

**Perlis General Hospital**

-To Upgrade AHU MCC Panel with Inverter

**Actiforce**

-Electrical Installation for VRV

# OUR JOB PROFILE

## 2023

**Teleflex Kamunting**

-To Replace and migrate WWTP Control Panel and Control Cabling

**IOI Penang**

-Electrical Installation for Machine

**Omega Solar - PVM Project**

-Electrical Installation & HVAC Control System

**Jinko Research & Development (R&D) Centre**

-Electrical Installation & HVAC Control System

**Perlis General Hospital**

-To Upgrade AHU MCC Panel with Inverter

**Intel PG8 Cooling Tower Replacement**

-Electrical Installation Work and Modify Existing MCC Work

**MCC and DB Panel Upgrading Work for Greatech BK1**

-DPM Installation Work for IoT Upgrading Work

**Bird Repeller System Installation Work at National Instruments**

-To Install Solar Powered Bird Repeller System

**Penang International Air Port BMS Migration Work**

-To Supply and Installation BMS Hardware for Migration to New Monitoring System for Chilled Water System

**Risen Solar**

-BMS Maintenance Contract for Siemens SCADA and PLC

**Tiong Nam Warehouse**

-Electrical Installation & HVAC Control System

**Chiller Replacement Work at Lintec**

-Electrical Installation Work

**Teleflex Taiping**

-BMS Installation Work

**Fuji M2 Wafer Test Clean Room Project**

-SCADA and Control System Works

**Fuji M1 Chiller 5 Replacement Works**

-SCADA and Control System Works

**Fuji SCM1 Phase 2 Project**

-SCADA and Control System Works

## 2024

**Intel PG15 Chiller Replacement Work**

-Electrical Installation Work and Modify Existing MCC Work

**New Powder Plant 2 Upgrading Work at Bakels Shah Alam**

-Electrical Installation Work and Upgrade MSB Panel

**Penang International Air Port BMS Migration Work**

-To Supply and Installation BMS Hardware for Migration to New Monitoring System for AHU

**Menicon Project**

-Electrical Installation Work

**Chiller Replacement Work and Upgrading PCW at Shorubber**

-Electrical Installation Work and PCW Control System

**Chiller Replacement Work at Lintec**

-Electrical Installation Work

**NTR Expansion Project**

-Electrical Installation Work for ACMV, CCTV System, Server Upgrading Work and PA System Upgrading Work

**Advance Energy Industries (Malaysia) Sdn. Bhd.**

-Electrical Installation Work for Various Project

**LAM Research Sepang Project**

-Electrical Installation & HVAC Control System Works

# OUR JOB SHOWCASE

## SITE INSTALLATION



MECHANICAL & ELECTRICAL  
INSTALLATION WORK

# OUR JOB SHOWCASE

## SITE INSTALLATION



MECHANICAL AND ELECTRICAL INSTALLATION WORK  
(WITH WIRE CABLE TRAY)



# OUR JOB SHOWCASE

## SITE INSTALLATION



MECHANICAL AND ELECTRICAL INSTALLATION WORK  
FOR RO WATER SYSTEM



# OUR JOB SHOWCASE

## SITE INSTALLATION



MECHANICAL AND ELECTRICAL INSTALLATION WORK  
FOR AMMONIA PLANT

# OUR JOB SHOWCASE

## SITE INSTALLATION



MECHANICAL AND ELECTRICAL INSTALLATION WORK  
FOR AMMONIA PLANT (CONDENSOR YARD)

# OUR JOB SHOWCASE

## SITE INSTALLATION



ELECTRICAL INSTALLATION WORK FOR  
COLD ROOM



# OUR JOB SHOWCASE

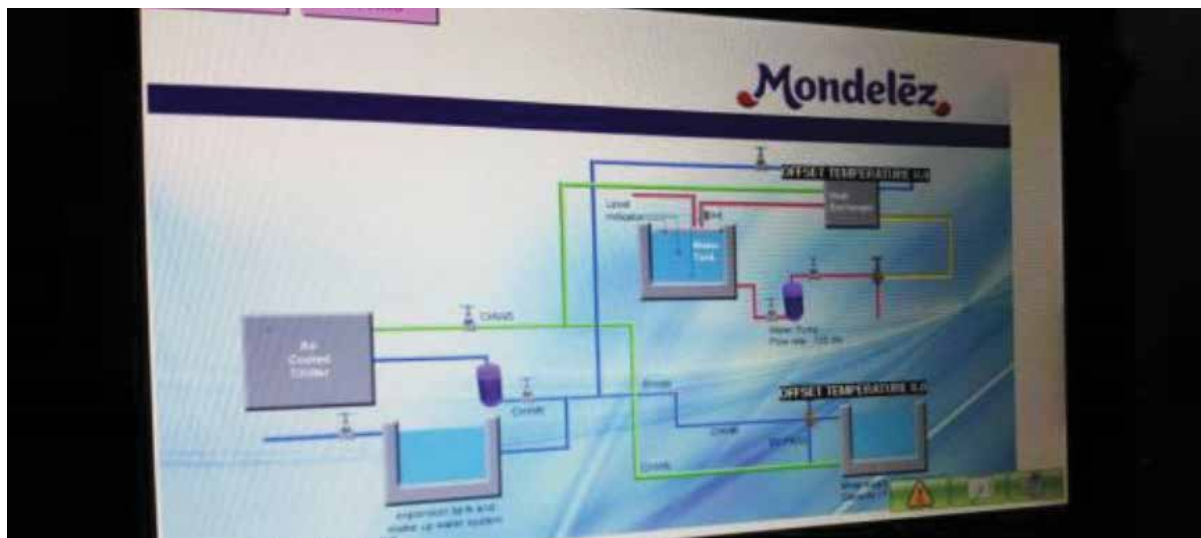
## SITE INSTALLATION



RADAR WATER LEVEL SENSOR  
INSTALLATION WORK

# OUR JOB SHOWCASE

## SITE INSTALLATION



CONTROL SYSTEM INSTALLATION WORK



# OUR PARTNERS

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Controller / Control Valve /  
DDC / Transducer (Sensor) /  
Damper Actuator



Programmable Logic  
Controller (PLC)



Controller / Control Valve /  
DDC / Inverter



SCADA Software



Controller / Control valve /  
Transducer (Sensor)



Transducer (Sensor)



Data logger



Pressure gauge



Damper Actuator / Control Valve



Programmable Logic Controller (PLC),  
Inverter, Digital Power Meter,  
Touch Panel



Inverter, Touch Panel, Contactor