



WE DELIVER QUALITY SOLUTIONS THAT LAST

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INTRODUCTION



Profile

WEC Engineers & Constructors Pte Ltd [WEC], formerly known as Wah-Chang Engineering Corporation, was incorporated as a civil and infrastructure construction company in 1972 in Singapore. WEC has transformed itself into a specialist provider of EPCC – Engineering, Procurement, Construction and Commissioning services for aviation fuel facilities, infrastructure projects and plant engineering works. Our services encompasses the full spectrum of engineering works from engineering design, sourcing and procurement, construction, fabrication, installation, testing and commissioning. Since inception, we have executed projects in Singapore and abroad especially in the Asia region such as Hong Kong, Vietnam, Sri Lanka and more. Our operation centers are currently established in the South East Asian region. With this strong base, we are moving into Greater Asia Region, Middle East and beyond.

Key Strengths

- Integration of new systems with existing facilities such that existing operations are not disrupted whilst works are being carried out.
- A strong innovative culture in the company that improves productivity and value to stakeholders.
- Customer-centric through prompt project delivery to the required quality and safety standards, evident by the repeated awards of new projects from long standing clients.



SERVICES

Plant Engineering

WEC specializes in building, design and construction, utilizing technology to deliver effective solutions while maintaining high safety standards. We are involved in the engineering works for specialized projects for oil and gas production and petrochemical plants. These projects require high engineering expertise where our engineering knowledge and construction experience are applied.

Scope of services:

- Petro-chemical plants
- Pharmaceutical plants
- Power plants and Incineration plant
- Maintenance, inspections, repairs and modifications
- Phase and integrate new facilities with existing systems without disruption to operations

a) Lubricating Oil Blending Plants

Since 1990s, WEC has been involved in designing and building of lubricating oil blending plants. These were turnkey projects, involving securing authority approvals, engineering design, procurement, construction and testing and commissioning of these plants.

b) Petro-Chemical and Pharmaceutical Plants

WEC is involved in delivering turnkey solutions for Greenfield and A&A type projects in various Petro-chemical and Pharmaceutical plants. For Mega Projects, we work as a steel structure, equipment and piping installation specialist to the Main EPC/PMC contractors

We are able execute steel work installation of most types including stainless steel, carbon steel, mild steel, alloy, and other specialty materials.

Projects by WEC

- Exxon Mobil Chemical - SPT (Singapore Parallel Train) Jurong Island - Underground and Aboveground Piping incl. Material Supply, Shop Fabrication and Field installation (incl. jacketed piping works), up to 2100mm Dia (2" to 84"), incl. testing and commissioning.
- Neste Oil Singapore Expansion Project
- SembCorp Industries Ltd - EPC Evonik High Pressure Steam Pipeline - Design and engineering, procurement and construction of HP steam piping including E&I works.
- Shell Eastern Petroleum Pte Ltd - Shell Marina Project - Piping Fabrication, Installation, Testing, and re-instatement works.

The ExxonMobil logo, featuring the word "Exxon" in red and "Mobil" in red, with a stylized red and white chevron symbol integrated between the two words.The Neste logo, consisting of the word "NESTE" in a bold, blue, sans-serif font.The text part of the Sembcorp logo, reading "sembcorp" in a bold, black, sans-serif font.

Aviation Fuel System

Aviation Fuel System plays a vital role in the aviation industry. WEC has secured an upper hand in this as it specializes in the engineering design, procurement, construction, installation, testing, and commissioning and project management of aviation fuel system including but not limited to the fuel hydrant system, emergency shut off system, pumping, reticulation system and oil storage terminals. Through the years, WEC has acquired the design capability incorporating ease of constructability for prompt delivery of project and low maintenance cost considerations, delivering these aviation fuel projects compliant to IATA and ICAO requirements.

The Oil Transmission Systems, which our services cover, are supplied to commercial airports and military airbases and form a critical component of their aviation fuel facilities. These systems (which include fuel farms, receiving and dispensing facilities and aviation fuel hydrant pipelines) receive fuel from oil tankers located on sea or land, store such fuel in tank farms and transport fuel to aircraft via jet fuel hydrant pipelines. We have completed such major projects for Changi International Airport and a military airbase in Singapore and the Chek Lap Kok International Airport in Hong Kong.

1. Full range of implementation:
 - Feasibility Study, FEED, Consultation
 - EPC
 - Testing & Commissioning
 - Operation & Maintenance
2. Turnkey incl. Fuel Storage, Pipeline, Pumping, Filtering, SCADA, Firefighting Sys, ESD, LDS etc
3. International standards (incl. IATA, JIG standards)

Projects by WEC

- Ceylon Petroleum Corporation -Turnkey EPC Aviation Fuel System for Bandaranaike International Airport, Colombo Sri Lanka
- Changi International Airport Aviation Fuel System
- Tan Son Nhat International Airport Aviation Fuel System, Vietnam
- Changi Naval Base Aviation Fuel System
- Hong Kong International Airport Aviation Fuel system

Infrastructure

Our Infrastructure Projects capabilities includes but not limited to medium/high pressure water / hydrocarbons / gas pipeline, water/waste water and sewage water treatment plants. Our design and build (or turnkey) services encompass the full spectrum of engineering works from engineering design, sourcing and procurement, construction, fabrication, installation, testing and commissioning.

We also possess the expertise to phase and integrate new systems with existing facilities such that existing operations are not disrupted whilst addition and alteration works are being carried out. We have executed numerous water treatment projects such as Sewage Water Treatment Plant for Tan Son Nhat Airport in Ho Chi Minh, Vietnam, Changi Water Reclamation Projects Singapore, pilot trial for Phenol Waste water treatment plant and improvement study for existing waste water treatment in an oil and gas plant as well as various water reclamation plants for Public Utilities Board Singapore.

Our scope of services:

- Gas / Hydrocarbons / Water Pipeline
- Waste to energy plant
- Waste / Sewage/ Reclamation/Desalination Water Treatment Plant
- Municipal or Industrial Plants incl. Chemical, F&B, Pharmaceutical and Power plants, etc

Projects by WEC

- Powergas Ltd- Term Contract for Supply and Laying of Gas Mains and Services at Various Locations.
- Ssangyong Engineering & Construction Pte Ltd- Design and Construction of North-South Corridor (Tunnel and Viaduct) between Ang Mo Kio Ave 9 and SG Seletar - Supply and Installation of Water Pipe Diversion Works.
- McConnell Dowell South East Asia Pte Ltd- Piping Works - 48" Crude oil pipeline, Jurong Island.
- Public Utilities Board- Newater Infrastructure Plan (NIP) Contract
01 - Laying of a 2200mm Dia Newater Pipeline, Changi, Singapore - incl associated works in the various water plants and pipe jacking works at 6 locations from Changi Newater Factory to Bedok Newater Factory.

Process Technology

To deliver higher quality of services, WEC collaborates with propriety process technology providers to deliver targeted solutions to our clients. In 2018, we partnered with BIAZZI, a Switzerland Process Technology Specialist in Hydrogenation and other Gas-to-Liquid Reaction Process, Nitration and Explosives.

We continue to expand our network of process technology collaborators so as to deliver customised solutions to our clients in Asia. We look to set up our R&D center in Singapore in the near future, to further meet the needs of our clients and the industries we serve.

Brief information about Biazzi

Biazzi established in 1936 in Switzerland, is Process Technology Specialist in Hydrogenation and other Gas-to-Liquid Reaction Process, Nitration and Explosives. Biazzi's Gas-Liquid Reaction Technology has been implemented in 77 plants worldwide including in Europe, Asia, America and other regions.

Our scope of services:

Pharmaceutical (API, etc)

Fine Chemicals (Additives, Adhesives, Paint, Polyurethanes, etc) Food (Sorbitol, etc)

Others (Flavours and Fragrant, etc)

Biazzi Strength and Capabilities

Process Development and Optimization of the Hydrogenation and other Gas- Liquid reaction technology provides Customized process solution for:

- Process Optimization Resulting in reduced capital and operational expenses
- Direct Scale up from Lab to actual Plant size - Shortest time to market
- Guarantees on Process, Optimization and Direct Scale-up
- Enhance Safety

Plant Maintenance

WEC provides regular and preventive maintenance services to our customers for their existing infrastructure facilities, including but not limited to inspection, repairs, modification and maintenance of existing pipelines, equipment and storage tanks.

We are also involved in shutdown maintenance works especially in the following fields.

- New or Existing Pipeline Work Including “Tie-Ins”
- Structural Modifications & New Erection
- Rotating Equipment Maintenance
- Static Equipment Maintenance (Exchanger, Column, Vessel)
- Furnace Maintenance Works (Includes Re-coil)
- Electrical & Instrumentation Maintenance
- Total Valve Management, Valves Change-Out Servicing & Certification
- Condition Monitoring
- Storage Tank Maintenance & Rehabilitation
- Plant Turnaround and Shutdown

Projects by WEC

- Public Utilities Board- Mechanical Works, Maintenance, Service, Repair / Replace for Screening, Sludge, Grit and Related Equipment including associated works at Jurong Water Reclamation Plant.
- Technochem Environmental Complex Pte Ltd - Engineering, Procurement, Construction and Statutory Application of New 36TPD Incineration Plant at Tuas, Singapore.
- Lucite International Singapore Pte Ltd- Shutdown Maintenance Temporary Facilities, New Piping System Fabrication and Installation, Mechanical Work and Lifting Work for Reactor, Valve, Drum, Tank and Column Packing Replacement Work.
- Rematec & KSN (Thailand) Ltd- Engineering Design and Project Management of No. 1 Pellet Factory in Sabah, Malaysia.
- Public Utilities Board - Water Treatment Plant - Service, Maintenance and Repair Mechanical Plant and Equipment (Bedok, Woodleigh, Bt Timah, P Tekong) including associated works in the various water.



ACHIEVEMENT

Awards

CERTIFICATE



Certificate of Assessment

WEC Engineers & Constructors Pte Ltd

10 Bukit Batok Crescent #14-06 The Spire,
Singapore 658079

KW Certification hereby grants to the above company
whose Environmental Management System is in
conformance with

ISO 14001:2015

Scope

Plant and Pipeline Engineering Design and Build,
Building and Civil Engineering Construction Services

Registration No: KWE-1230
Issued On 07th April, 2020
Last Issued On 07th April, 2020
Initial Certification Dated On 17th March, 2006
This certificate is valid until 09th May, 2023


General Manager

Further clarification regarding the validity of this certificate may be obtained from KW Certification Pte Ltd
at 27-01 Avenue 1 Road Singapore 408028

CERTIFICATE



Certificate of Assessment

WEC Engineers & Constructors Pte Ltd

10 Bukit Batok Crescent #14-06 The Spire,
Singapore 658079

KW Certification hereby grants to the above company
whose Quality Management System is in conformance
with

ISO 9001:2015

Scope

Plant and Pipeline Engineering Design and Build,
Building and Civil Engineering Construction Services

Registration No: KWQ-1229
Issued On 07th April, 2020
Last Issued On 07th April, 2020
Initial Certification Dated On 11th May, 1999
This certificate is valid until 09th May, 2023


General Manager



Further clarification regarding the validity of this certificate may be obtained from KW Certification Pte Ltd
at 27-01 Avenue 1 Road Singapore 408028

CERTIFICATE



Certificate of Assessment

WEC Engineers & Constructors Pte Ltd

10 Bukit Batok Crescent #14-06 The Spire,
Singapore 658079

KW Certification hereby grants to the above company
whose Occupational Health and Safety Management
System is in conformance with

ISO 45001:2018

Scope

Plant and Pipeline Engineering Design and Build, Building
and Civil Engineering Construction Services

Registration No: KWO-1231
Issued On 07th April, 2020
Last Issued On 07th April, 2020
Initial Certification Dated On 07th April, 2020
This certificate is valid until 06th April, 2023


General Manager



Further clarification regarding the validity of this certificate may be obtained from KW Certification Pte Ltd
at 27-01 Avenue 1 Road Singapore 408028



WEC Engineers & Constructors Pte Ltd

In Recognition of
Commendable Performance
In Business Excellence


Poon Hong Yuen
Chief Executive

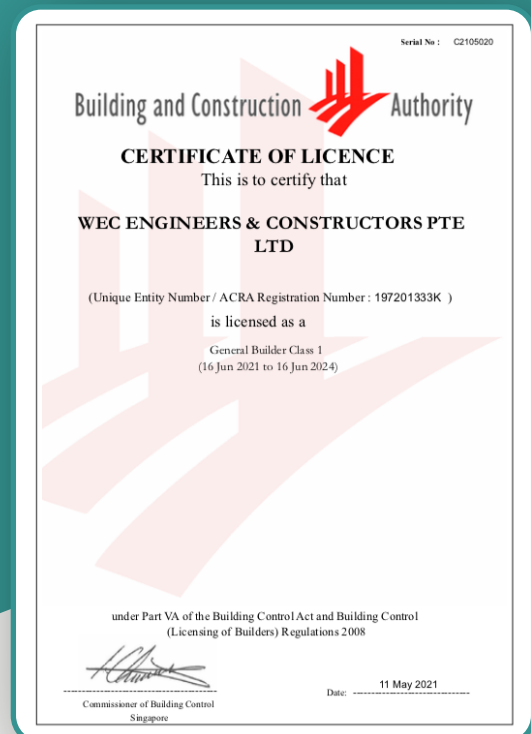
Date of Issue: 30 April 2017

Date of Expiry: 30 April 2020

Certificate No: BE17031



Awards



Contact Us

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WEC deliver
Quality Solutions
that last.



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