

## **Award of PMC Contract for Large Scale Heavy Oil Upgrading Project in Venezuela**

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Toyo Engineering Corporation

Toyo Engineering Corporation (TOYO, CEO Yutaka Yamada) in consortium with a Venezuelan engineering company Y&V Ingeniería y Construcción, C.A. (Y&V) has been awarded a PMC (Project Management Consultant) contract for a heavy oil upgrading project of the Venezuelan national petroleum company Petróleos de Venezuela, S.A. (PDVSA) at its Puerto La Cruz Refinery in the State of Anzoátegui.

This project is aiming at increase of processing capacity of the refinery with maximum use of the extra heavy oil produced at Orinoco Oil Belt in order to satisfy energy demands of domestic market in Venezuela and exports to overseas.

This is an epoch making project in a sense that the main unit\* of the project is the first commercialization of a heavy oil upgrading technology developed by PDVSA's R&D center (PDVSA Intevep).

With the consortium partner Y&V, TOYO has been collaborating with the on-going Moron Fertilizer Complex Project in Moron, Venezuela. Based on the team work that TOYO has established with Y&V, the consortium will, jointly with PDVSA's project team, perform PMC services to manage and control several contractors engaged in the project up to its start-up.

TOYO will strive for contributing to realization and successful execution of energy related, chemical, and petrochemical projects in Venezuela.

### Project Summary

Client: Petróleos de Venezuela, S.A. (PDVSA), Caracas, Venezuela

Contractor: Consortium of Toyo Engineering Corporation and Y&V Ingeniería y Construcción, C.A.

Scope: PMC (Project Management Consultant) Services

Site: Puerto La Cruz, Anzoátegui, Venezuela (300km east of Caracas)

Units: Heavy Oil Upgrading Units of Puerto La Cruz Refinery (210,000 BPSD) consist of;  
Atmospheric Distillation, Vacuum Distillation, Slurry Hydrocraker (HDH Plus\*), Sequential Hydroprocessing (SHP), Sulfur Recovery, Hydrogen Production, Offsite and Utility

Duration: 52 Months

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