



11 November 2013  
JFE Engineering Corporation

## **JFE Engineering Started the Work for Waste Heat Recovery Power Generation System from the Largest Cement Company in Indonesia**

~A launch of the Feasibility Study under the Joint Credit Mechanism (JCM)

JFE Engineering Corporation (CEO: Sumiyuki Kishimoto; Head Office: Tokyo, Japan) announced that it has started work on a waste heat recovery power generation project for PT. Semen Indonesia (Persero) Tbk., the leading state-owned company and the largest cement company in Indonesia. JFE Engineering has also been entrusted for the feasibility study of the Joint Credit Mechanism (JCM) by the Ministry of the Environment of Japan (MOEJ) on this project.

The system, mainly consisting of boilers, a steam turbine and a generator, shall be designed and manufactured by JFE Engineering and shall be installed by the local contractors in the Tuban plant (West Java, Indonesia) of the company. The commissioning of the plant is scheduled to be at the end of FY 2014. The system can generate the 28MW of electric power efficiently utilizing the unused waste heat from the cement production process. This is the second installation of the system in Indonesia after PT. Semen Padang and the both of them shall be supplied by JFE Engineering. This installation shall be added to the JFE's abundant track record in Taiwan, China, Europe and Canada. In addition to this rich experience, the system has been appreciated by the Indonesia customer for its high efficiency and the flexibility accommodating the wide range of waste gas temperatures from approximately 200 to 400 deg-C.

JFE Engineering has already launched the feasibility study "FY 2013 Joint Credit Mechanism Demonstration Project Feasibility Study" entrusted by the MOEJ in this July on this project. Joint Credit Mechanism (JCM) enables Japan to realize Green House Gas (GHG) emission reduction through the projects utilizing the low carbon technologies in order to achieve Japan's emission reduction target. Indonesia and Japan has signed the bilateral document on JCM on August 26, 2013.

Waste heat recovery power generation system is drastically reducing GHG for it generates the power with only waste heat. The system in this project is expected to reduce some 130,000 CO<sub>2</sub>-tons with full load operation. Upon award as a "FY 2014 Demonstration Project" the project shall be supported by the MOEJ in the form of subsidy.

JFE Engineering Corporation and PT. Semen Indonesia, on October 23, has reached an agreement on "Strategic Collaboration Agreement" in the environmental activity field. This will allow the expansion of the cooperation not only

on waste heat recovery but also on waste management to in Indonesia and in Vietnam where the cement plants of PT. Semen Indonesia locate Through the new collaboration, JFE Engineering will accelerate business activities in the developing countries with its cutting-edge technologies in the environmental field.

**The Project Outline**

- Location: Tuban Plant (Tuban city)
- Technologies: Waste heat recovery power generation system
- Power Output: 28MW)
- Scope of Work: Engineering and Manufacturing
- Commissioning: the End of FY2014

**PT Semen Indonesia (Persero) Tbk.**

- CEO: Dwi Soetjipto
- Cement plant location  
three in Indonesia  
one in Viet Nam
- Sales: JPY139 billion
- Cement production : 20 million tons/year

▼Panoramic photo of the Tuban Plant of PT Semen Indonesia



▼The cement plant to be installed with the waste heat recovery power generation system



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