

23 February 2012

***A contract worth €830 million***

## **Alstom will deliver a 1000 MW supercritical coal-fired power plant at Tanjung Bin, Malaysia**

Alstom and its consortium partners have signed a contract worth globally over €1 billion with Tanjung Bin Energy Issuer Bhd<sup>1</sup>, the wholly owned subsidiary of Malakoff Corporation Berhad, to provide a 1000 MW supercritical coal-fired power plant at Tanjung Bin, Johor, Malaysia. Alstom's share in this contract amounts to €830 million. Alstom will supply all key power generation equipment and will be in charge of the overall engineering, project management and commissioning.

Alstom will execute the EPC (Engineering, Procurement and Construction) contract together with its consortium partners Mudajaya and Shin Eversendai. Alstom will engineer, supply, construct and commission the 1000 MW supercritical steam turbine and generator, the supercritical boiler, power plant auxiliaries such as mills and air-preheaters as well as proprietary environmental control systems. The emissions at the plant will be significantly reduced through the use of low NOx burners, a highly efficient seawater flue gas desulphurisation facility and Fabric Filters to lower nitrous oxide, sulphur oxide and dust emissions. Additionally, Alstom will also supply and install its latest ALSPA® Series 6 Distributed Control System.

Supercritical power plants operate at a higher temperature than regular coal-fired power plants. The high temperature improves their efficiency, increasing the amount of power output and decreasing emissions, particularly CO<sub>2</sub> per unit of fuel burned.

The Tanjung Bin power plant is to be commissioned in 2016. Combined with the new Manjung power plant also being constructed by Alstom and due to come online in 2015, the power plants will jointly provide an additional capacity of 2000 MW for Peninsular Malaysia. The Tanjung Bin power plant is Alstom's second contract for a supercritical coal-fired unit in Malaysia, following the order to build the 1000 MW Manjung power plant in March 2011.

Andreas Lusch, Senior Vice President of Alstom's Steam business said that *"This success, following close on the heels of the contract to build the Manjung power plant, is a reinforcement of our Malaysian customers' confidence in our supercritical technology as well as in our execution capabilities. Our market-leading technology will deliver additional capacity, while at the same time substantially reducing emissions, thus delivering cheaper, cleaner power to Malaysian consumers and businesses."*

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<sup>1</sup> Tanjung Bin Energy Issuer Bhd (formerly known as Powerfield Sdn Bhd), is the wholly owned subsidiary of Tanjung Bin Energy Sdn Bhd (formerly known as Transpool Sdn Bhd), which in turn is a subsidiary of Malakoff Corporation Berhad.

This contract further strengthens Alstom's position as the largest original equipment manufacturer in Malaysia, having supplied key equipment for nearly 7.5 GW of the installed power generation capacity of the country. This includes the engineering, procurement and construction of the Malakoff owned 1,300 MW Segari and 650MW GB3 combined cycle power plants in Lumut, and the 3 x 700 MW coal fired plant at Manjung. The air quality control equipment installed at the existing 3 x 700 MW coal-fired plant at Tanjung Bin and the 2 x 700 MW Jimah plant were also supplied by Alstom in the past.

### **About Alstom**

*Alstom is a global leader in the world of power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom builds the fastest train and the highest capacity automated metro in the world, provides turnkey integrated power plant solutions and associated services for a wide variety of energy sources, including thermal (coal, nuclear, gas...) and renewable ones (hydro, wind, solar...) and it offers a wide range of solutions for power transmission, with a focus on smart grids. The Group employs 92,000 people in around 100 countries, and had sales of over € 20.9 billion in 2010/11.*

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