

# ECO-FRIENDLY SOLUTIONS

## COMPANY NEWS

Nowadays, concern for the environment is a key issue to consider during any project. Reducing the impact of coal handling and storage requires advanced technologies. Bedeschi, thanks to its long experience and know-how in the handling sector, is able to guarantee eco-friendly solutions, from train receiving to crushing, stacking, reclaiming (either with scraper or bucket wheel reclaimers), ship loading or transshipping systems. We can design, engineer, manufacture and deliver turnkey solutions for any plant capacity meeting the most stringent environmental and safety standards worldwide.

### CASE HISTORIES

The new greenfield coal power plant in Punta Catalina, Dominican Republic, supplied by Bedeschi is a complete material handling equipment set, from coal receiving rail Mobile Hopper on jetty, to coal storage and delivery, right up to the loading point at boiler area. The total plant capacity is 2x360 MW. The main characteristic of this supply is a 2,150m long pipe conveyor (D.700mm) with a capacity of 3000tph.

The project's environmental conditions were very stringent, leading to an extremely challenging design phase of equipment and structures due to heavy

winds (due to it being in a hurricane and tsunami area), soil (instability and potential liquefaction) and earthquake conditions typical of the area.

In Italy, Bedeschi supplied to two circular storages to energy group Enel. The project, which is considered one of the most innovative in Europe, consisted of two indoor domes completely computerised for the storage and reclaiming of coal, feeding the whole plant. The domes, with a diameter of 150m and a height of 45m each, are one of the biggest in Europe. The handling system supplied by Bedeschi satisfies the design, functional and safety standards.

PIPE CONVEYORS IN PUNTA CATALINA, DOMINICAN REPUBLIC





BEDESCHI SHIPLADING SYSTEM FOR COAL IN LOUISIANA, US

To Convent Marine Terminal coal yard in Louisiana, US, Bedeschi supplied three shiploaders with radial-tower type loading booms and two connecting conveyors. The shiploaders are designed to operate at a maximum rate of 6,000tph each. This maximum combined loading rate can be achieved by operating one or a combination of the three shiploaders. All of the conveyors have been designed for a 84in belt. The link belts are also rated for 6,000tph with 84in belts.

Bedeschi has designed all of the belt conveyors for the same belt width to ensure continuity of operation and spare part sharing. Dust control systems and drip trays will be provided for each conveyor to control environmental contamination. The shiploaders are equipped with safety clamps or tie-down mechanisms, in order to avoid undesirable movement during windy or storming conditions. A micro switch will give a signal to a local distributed control system that the machine is in locked position.

**For more information, visit:**  
**[bedeschi.com](http://bedeschi.com)**



BEDESCHI EQUIPMENT FOR ENEL IN BRINDISI, ITALY