



The FDS Project

The FDS Project consists of a new world class non-recovery coke plant and adjacent integrated electrical co-generation facility in Toledo, Ohio. The coke plant will annually produce about 1.4 million tons of coke for use in North American steel and foundry plants. The co-generation facility will annually generate approximately 1 million megawatt hours of “zero emission” electricity using steam produced by waste heat from the coke plant.

Coke Plant Overview

The FDS Coke Plant will transform 2.058 million tons of coal into coke by driving off the volatile matter to concentrate the carbon. The coke oven batteries will be located on a southwest to northeast line about 100 feet from the eastern edge of the Project Site. The ovens are maintained under negative pressure and waste gases generated by the coking process are routed to refractory lined tunnels for complete combustion at temperatures up to 2,012°F. Excess heat generated by the combustion is routed to heat recovery steam generators used to cool the waste gases by producing steam. The cooled gases are ducted to air pollution controls prior to discharge into the ambient air.

Co-Gen Facility Overview

The FDS Co-Generation Facility is a 135 megawatt electrical power plant powered by steam produced by the coke plant. The facility will occupy approximately 5 acres of land located directly adjacent to the coke plant. The design of the co-gen facility includes a single steam turbine building, a maintenance and water treatment building, exterior tankage, cooling towers, a 138kV substation, and general roadway access to the major equipment.



Ohio Economic Benefits

Construction of the FDS Project will result in the capital investment of more than \$800 million in Ohio. This investment will transform a vacant underutilized industrial property into a huge local and regional economic development engine. The project will require approximately 2 years for construction. An estimated 1,200 to 1,500 workers will be needed during construction activities. Many of these construction jobs will be filled by people from Northwest Ohio. Combined coke plant and co-generation facility operations will result in an estimated 150 new direct full-time jobs and at least another 50 indirect jobs at support companies and surrounding businesses. The new direct manufacturing jobs are expected to provide individual wages well above the 2004 Median household income of \$38,000 for Lucas County. As a result, the FDS Project will support local prosperity and provide an important economic boost to the area.

Environmental Aspects

The FDS Project incorporates world class integrated design and new innovative technologies to minimize potential environmental impacts, including air pollutant emissions. Air pollution emissions controls for the non-recovery coke plant's operations will set a new and higher environmental standard for future coke plants to achieve. Ohio EPA approved modeling demonstrates that the project's air pollutant emissions will not adversely impact local ambient air quality. When fully operational, the FDS Coke Plant will have the lowest overall emission rate of air pollutants per ton of coal charged of any non-recovery coking plant in the US.

The project is also expected to recycle up to 90% of the non-sanitary wastewater and storm water generated onsite. No wastewater or storm water will be discharged into the Maumee River or Lake Erie.

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