

## DETAILED SITE MAP

ecoPower Generation – Hazard, LLC (“ the Project”) will be a baseload woody biomass renewable electricity generating station to be located in the Coal Fields Industrial Park, approximately 10 miles north of Hazard, Kentucky. The Project will consist of one 66 MW nominal gross steam-turbine generator and a bubbling fluidized bed boiler. The Project will include the engineering, procurement, construction and commissioning of the new outdoor generating unit on a 125 acre mine spoil site in Perry County, Kentucky.

The new unit will include a biomass-fired boiler with all ancillaries; an air quality control system (AQCS) including a dry sorbent injection system (DSI) for sulfur oxide (SO<sub>x</sub>) and HCl removal, a fabric filter for particulate removal and selective catalytic reactor (SCR) for NO<sub>x</sub> reduction; a single casing, direct-connected, 3,600 RPM, single flow, condensing steam turbine-generator; and material handling systems for fuel and ash. The feedwater heating cycle will consist of three (3) stages with two closed low-pressure heaters, and one closed high-pressure heater. Cycle heat rejection will be accomplished using an air-cooled condenser with a deaerating condensate collection tank. Component cooling system heat rejection will be accomplished using an auxiliary wet cooling tower. Hazard municipal water supply will be used as the water source for process makeup. Biomass fuel in the form of whole logs and mill residuals will be procured by the Project. The project also will include a 69kV switchyard and approximate 1.5 mile transmission line to AEP’s Engle Substation.



