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COGENERATION: ENVIRONMENTALLY SOUND ENERGY EFFICIENT TECHNOLOGY

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ABSTRACT

Energy is the byword of the 80s. The main problems are to be faced for energy, where to find it?, how to get it?, and how to conserve it? Solutions to the problems are numerous and manifold. One solution that is practical now as well as beneficial in the long term is cogeneration. In this article some technical methods of cogeneration and its environmental benefits are discussed. The technologies included in this report include diesel engines, natural gas engines, steam turbines, gas turbines, micro-turbines and fuel cells. In this context, cogeneration presents an important option to meet the demand for electricity and heat in a most cost-effective manner.

KEYWORDS: Steam Turbine Systems, Gas Turbine Systems, Reciprocating Systems, Trigeneration, Electricity Production, Heat to Power Ratio