

Clean Energy Technology for Sustainable Development in an Input-output Framework- A Case Study of New Holland Agriculture Farm Industry

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Abstract—*Clean Energy is central to achieving sustainable social and economic development. It is not possible to achieve economic growth to satisfy current basic needs of Humanity without an intensive use of energy. On the other side, one of the main challenges for the use of energy is the negative effects of greenhouse gases on the global climate. Agricultural implements industries are highly energy intensive. Some of these industries are: John Deere, Mahindra & Mahindra, Massey Ferguson, Escorts and Preet. Many of these industries use fossil fuel as energy source and release green house gases. There is a need to use clean energy resources in agriculture implements for the preservation of our environment and natural resources.*

This paper presents a frame work of clean energy technology for sustainable development with input-output framework. The industry chosen for this study is the New Holland industry situated in India. The New Holland is a global brand of agricultural machinery produced by CNH Industrial. New Holland agricultural products include tractors, combine harvesters, balers. Forage harvesters, self-propelled sprayers, haying tools, seeding equipment, hobby tractors, utility vehicles and implements, as well as grape harvesters. The original New Holland Machine Company was founded in 1895 in New Holland, Pennsylvania; it was acquired by a couple of companies and finally by Fiat in 1991, becoming a full line producer. New Holland launched the clean Energy Leader strategy for the active promotion of renewable fuels, emission reduction of green house gases and sustainable agriculture technology.

Keywords: *Clean energy; Agriculture; New Holland; Green House Gases; Sustainable Development; Renewable Fuels; Global Climate*