

RENEWABLE ENERGY ASSESSMENT FOR SUSTAINABLE DEVELOPMENT AND POVERTY REDUCTION IN ETHIOPIA: REVIEW

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ABSTRACT

The present paper review work is the assessment of renewable energy potential for sustainable development and poverty reduction of the rural and urban location of the country. Ethiopia has huge energy potential almost from all renewable energy except tidal and wave energy. But, almost all the rural area does not have access to electricity and still 94% depend on biomass for cooking and 87% electricity source largely depends on hydro power stations to generate major portion of power. Electricity is one form of energy and easy to convert to other form of energy. Even though the country has high electricity demand but only 15% of the population have access to electricity. And this paper has also presented an option of rural electricity and other energy supply through energy extension system. Energy extension and high efficiency appliances are the best solution to solve energy shortage of pastoral, semi-pastoral and poor rural society. Since some of the eastern African countries are already facing power shortages, they need of electricity to power their economies. Ethiopian government should increase the expansion of the infrastructure in the energy sector and to export towards the sub-Saharan countries.

KEYWORDS: Assessment, Energy Extension, Ethiopia, Renewable Energy