

TIRDO Role in Development of Sustainable Energy Technologies for Supporting the Industrialization Process in Tanzania by Lugano Wilson

It is an accepted fact that energy is prerequisite for development as it is positively linked to the different sectors of the economy. The link has been shown by a direct correlation between per capita energy use and real per capita income throughout the world economies. On an aggregate basis, higher use implies higher income and vice versa. Consequently, the low per capita energy consumption in the developing countries is negatively affecting economic opportunities, and the provision of social services like health, education, and safe water. However, developing countries like Tanzania are vested with abundant energy resources both renewable and conventional ones. Besides their great potential contribution to the socio-economic development of the country, these energy resources have not been harnessed sufficiently. As the envisaged industrialization process for Tanzania is highly dependent on availability of energy, efforts in increasing energy access and reliability are indispensable. In contribution to these efforts, Tanzania Industrial Research and Development Organization (TIRDO) have embarked on developing coal energy technologies. This takes into consideration that this resource is marginally contributing to Tanzania energy balance. The current work therefore presents TIRDO efforts in the development of coal utilization technologies, which targets the energy sector, industries and households.