

**TRANSFORMING AND GREENING TVET FOR SUSTAINABLE DEVELOPMENT
IN WESTERN KENYA**

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ABSTRACT

In an age characterized by global economic crisis and climatic change crisis, Green Technology(GT) aspires to tackle the challenges of; encouraging development and poverty reduction, creating new and more vibrant economies based on clean technologies and securing an increasingly greener world. This is a paradigm shift. The need for green technologies and investment ultimately takes a pertinent agenda in this century. Globally, cities account for about 70% of CO₂ emissions, which comprise a significant share of global greenhouse gas emissions, the bulk of these being generated in the building and construction, urban transport, and energy sectors. The global challenge we face today is that of preventing catastrophic climate change. This prevention requires a multidimensional approaching including education and training. For most developing countries, the ability to nurture the transfer of green technologies by building technical capacities and by creating institutional framework for adaption and improvement is a big challenge. Generally green technology is more expensive than the technology it aims to replace because it accounts for environmental costs. According to Luke and Rompaey(2008), the likely barriers to green technology include; lack of human resources and skill, lack of information, high implementation costs and unknown alternative process technology. TVET institutions with mandate for technical training will require a paradigm shift to meet these challenges. This paper seeks to find out the status of green technologies and green skills in technical Training Institutes in Western Kenya. Research methodology used was quantitative while research design adopted was survey research design. The findings from the study indicate that majority of TVET courses offered do not integrate GT in training; Students and staff should be involved more on Green Technology project and that TVET institutions should strengthen their linkage and networking programmes in the area of GT.

Keywords: TVET, Sustainable development, green skills and technologies, green economy.