

**GHANA SKILLS &
TECHNOLOGY DEVELOPMENT PROJECT**
2011 - 2016
(GSTDP)

**RESULTS
CATALOGUE**



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COMPONENT 1 RESULTS

The Ghana Skills and Technology Development Project focused on institutional strengthening of skills development in Ghana. Under Component 1 of the project, a total amount of US\$ 4,000,000.00 was committed towards strengthening the capacities of COTVET and TVET Providers in planning, coordination and delivery of TVET. Key achievements include:

A legislative instrument, L.I 2195 developed for the regulating TVET.

23 manuals and guides developed to guide TVET institutions in the development, delivery and management of TVET programmes in Competency Based mode.

A manual developed for the operationalization of Recognition of Prior (RPL) in the TVET.

A quality assurance manual developed for the institutionalization of quality assurance in TVET institutions in Ghana.

A TVET Management Information System (MIS) developed for TVET in Ghana



COMPONENT 1 RESULTS



- ▶ 56 TVET managers trained in the development of Institutional Development Plans (IDPs).
- ▶ 36 TVET instructors trained in the implementation of RPL in TVET institutions.
- ▶ 10 technical and vocational institutes supported to develop IDPs for implementation.
- ▶ 54 TVET managers trained in the use of the TVET MIS system.
- ▶ 10 TVET supported with basic tools, equipment and minor renovation works.
- ▶ COTVET Staff trained to ensure the effective coordination of TVET in Ghana.



KEY TECHNOLOGIES DEVELOPED UNDER COMPONENT TWO OF GSTDP

Inst.	Technology	Description of Technology	Markets for Technology
GAEC	Market-focused Technology	GAEC has revised its promotion guidelines to include technology transfer and commercialization. Under the new promotional rules, technology transfer constitutes 40% towards staff promotion.	Internal Research Scientists
	GAMMA Irradiation Technology	Deploying GAEC'S gamma irradiation technology for the benefit of the pharmaceutical sector to irradiate its hydroxide polymaltose.	Pharmaceuticals & Hospitals
	Green House Technology	Green House Technology for the production of export oriented chili pepper.	Vegetable Association of Ghana
	Tissue Culture Technology	Using tissue culture technology for yam variety improvement and meeting external market requirements.	Vegetable Association of Ghana
	Non-Destructive Technology	Leveraging GAEC non-destructive testing (NDT) technology for the benefit of local welders and oil/gas tanks regulatory enforcement in Ghana to ensure strict conformity to sound, safety environmental standards.	Ghana National Association of Garages (GNAG)
GTUC	Student Records Management System Using Smart Cards And Biometric Technology	This project explores the use of biometric technologies coupled with smartcard technologies to provide a unique way of identifying students and matching their data to financial records to grant them access to restricted areas such as examination halls	University Campuses
	Intelligent Panbolic Wi-Fi Antenna	To develop an intelligent antenna for Wi-Fi networks to improve network performance and economics	Urban and rural communities
	Integrated Web-Based Applications using SMS/GIS/GPS for Location-Aware Disaster Management	Provide and efficient, low cost way of locating individuals in emergency situations and allow users to store geospatial information of frequently visited places	Emergency Management Services
	Children Brain Exercising Game	The aim of this project is to develop a brain exercising game (web and mobile version) for children to improve cognitive abilities in the areas of attention, memory and speed.	Basic schools



KEY TECHNOLOGIES DEVELOPED UNDER COMPONENT TWO OF GSTDP

K'Poly	Fufu Pounding Machine	Electric motor powered fufu pounding machine installed with mortar and pestle to improve safety, hygiene and efficiency in fufu production in restaurants.	Restaurants/Hospitality Industry, Chopbars, Canteens and institutions
	Solar Bags	Installed solar-powered charging systems for phones and ipads/laptops in Bags and ipad/laptop cases.	General Public
	Efficient Fish Smoker OR Redesigning and Testing of an Efficient Fish Smoker	An Efficient fish smoker to smoke relatively large quantities of fish within a comparatively shorter period of time, under hygienic conditions, and provides safety to the fish monger.	Fish Mongers/ Fish Farmers, Hospitality industry
	Inverters	Pure Sine wave inverters of varying capacity and high durability to provide alternate sources of energy.	General Public
	Solar Crop Dryers	Solar crop dryer designed to speed up the drying of cocoa beans, cassava, pepper, etc under hygienic conditions.	Crop Farmers/ Agro Processors
	School Management Software	Development of different types of electronic softwares to improve the administration and management of private sector schools in Ashanti Region.	Private Schools
CSIR	Phyto-chemical From Plant Tissues	Training herbal medicine producers in modern extraction techniques using low temperature and high vacuum distillation processes to produce high yield concentrates of phyto-chemicals from plant tissues.	Herbal and Traditional medicine producers in Greater Accra region
	Palm-nut cracker Equipment	To design and fabricate an improved version of a mechanized equipment that can crack palm-nuts and separate the kernels from the shells.	Oil Palm Research Institute, Kade
	Skills Transfer Training	Transfer of skills and techniques in oil palm mushroom cultivation to small scale mushroom producers in Ashanti and Greater Accra region	Alpha Mushroom Cluster of the Ghana Pan African Competitiveness Forum
	Green House Gases Emission Reduction	Sustainable waste management renewable energy production and reduction of Green House gases emission in this era of green economy through the integration of on-site wastewater treatment plant using Anaerobic Digestion Technology	St Thomas Aquinas Senior High School



COMPONENT 2 RESULTS

The Ghana Skills and Technology Development Project focused on institutional strengthening of science and technology. Component 2 of the project was aimed at improving the planning, management, and coordination of Science and Technology Innovation policies. A total of amount of US\$ 4,000,000.00 was committed towards strengthening the capacities of the Ministry of Environment, Science and Technology Innovation and selected Science and Technology Institutions to deliver on their mandate. The following key achievements were made:

▶ A total of US\$ 2,700,000.00 worth of technology grants were disbursed to the following 5 Science and Technology Institutions to develop technologies for the private sector:

- a. Ghana Atomic Energy Commission
- b. Kumasi Polytechnic
- c. University of Ghana
- d. Centre for Scientific and Industrial Research
- e. Ghana Technology University College

▶ 5 Technology Transfer Centres set up in the various 5 beneficiary institutes to market developed technologies and create business for sustainability.

▶ 70 technologies developed for the private sector.

▶ A Science and Technology Innovation directorate has been successfully renovated and equipped to strengthen the planning, management, and coordination of national Science, Technology and Innovation policies and programmes in order to make efficient use of resources and complement the national economic development plan.



COMPONENT 3 RESULTS

Component 3 of the Ghana Skills and Technology Development Project is the Skills Development Fund (SDF). The Fund received support from the Work Bank (US\$50 Million) and DANIDA (US\$10 Million). The first phase of SDF comes to a close in December 2016 with the following results:

SDF has awarded a total of US\$ 51.9 million worth of grant to businesses leading to a 60.67 % increase in productivity.

Over 13,000 direct new jobs have been created through SDF support.

646 Grants awarded to businesses across the 10 regions of Ghana

US\$ 43. million worth of grants so far disbursed to 646 businesses

43,485 Business Units have been supported by SDF



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COMPONENT 3 RESULTS



- ▶ 103,683 employees/members of Trade Associations and Farmer Based Groups trained across all sectors of the economy of Ghana
- ▶ 523 New technologies developed for uptake by the private sector
- ▶ 105 New training courses developed
- ▶ 12 Technology Centers supported to develop innovative technology for industry



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