

Greening TVET of Technical and Vocational Education and Training (TVET) in Viet Nam

Programme “Reform of TVET in Viet Nam”



Training for students on waste auditing and action planning on plastic waste reduction, Long An College, 2021.

Photo credit: Long An College

Context

Vietnam's Green Growth Strategy (VGGS) for the period 2021-2030 with vision to 2050 demonstrates of the country's commitment for a more sustainable development path which started a decade ago. The strategy sets out ambitious targets for the reduction of greenhouse emission, the greening of industries, the promotion of greener ways of life and consumption, and enhanced resilience. At COP26, Vietnam pledged to phase out coal-fueled power generation by the 2040s and reach net-zero emissions by 2050. The achievement of these targets requires a highly skilled and environmentally savvy workforce, and the TVET sector plays an essential role in this endeavor. The Programme “Reform of TVET in Viet Nam”, that is financed by the German Ministry for Economic Cooperation and Development (BMZ) and implemented by Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) together with the Vietnamese Directorate of Vocational Education and Training (DVET) introduces, implements and promotes the greening of TVET from the policy-making to institutional levels.

Approach

The Programme cooperates with local TVET stakeholders to introduce and implement the UNESCO- UNEVOC's whole-institution approach to greening TVET which includes five main components: greening the campus, greening the curriculum, greening research, greening the community and building a green culture. Within this approach, greening TVET activities are implemented on the foundation of quality vocational skills training and the involvement of a well-defined management structure.

To support TVET institutes in their greening journey, practical activities in the mentioned five areas of TVET greening are

implemented with and by TVET managers, teachers and students. The Programme also strives to establish environmental management systems at TVET institutes that are in line with industry standards.

At the state management level, the Programme develops capacities and offers technical advice for policy-makers to integrate green elements in TVET policies and regulations and to disseminate good greening practices within the system.

Results

System-level results include:

- In 2019, MoLISA became the 8th ministry in Viet Nam to have issued their ministerial-level action plan on the implementation of the VGGS. With inputs from the Programme, greening TVET is positioned as a core component of the plan.
- MoLISA issued a series of minimum requirements for the knowledge and skills levels to be achieved by TVET trainees upon graduation for various occupations. Greening elements were integrated in these “learning outcomes”, providing a benchmark for TVET institutes in the development of curricula and students' testing and evaluation.
- Cooperating closely with DVET and provincial Departments of Labour, Invalids and Social Affairs (DoLISAs), the Programme introduced the concept of greening TVET to approximately 150 TVET practitioners nationwide.
- Various publications and media campaigns were carried out to raise awareness on greening TVET for TVET teachers and students. A greening TVET photo campaign on the Facebook page of the Programme received a huge response from TVET teachers and students.



Teachers of Ninh Thuan Vocational College Install the 10 kwp grid-connected roof top solar system on the roof of a practical training workshop.

Photo credit: Phan Thanh Van, Ninh Thuan Vocational College

- With support from the Programme, DVET undertook the revision of the module “environmental protection, energy and resource efficiency” produced by the College of Machinery and Irrigation (VCMI) to disseminate it widely within the system. The module is a 36-hour training aimed at equipping VET students with cross-occupational green skills needed for a more sustainable lifestyle and approach to work.



German development advisor advises VCMI teachers on the new Computer-controlled solar thermal system.

Photo credit: Pham Ngoc Tuyen, Long An College

TVET College-level results include::

- With support from the Programme, VCMI is becoming a center of excellence for green TVET. The college is offering two new training occupations “Electronics for energy and building technology” and “Plant mechanic for sanitary,

heating and climate technology” and has successfully developed the additional module “Environmental protection, energy and resource efficiency” mentioned above.

- Training was provided to approximately 100 TVET teachers and managers from partner and non-partner TVET institutes on the delivery of the module “Environmental protection, energy and resource efficiency”.
- The Development Partnership with the Private sector “Vocational Training Centre in Renewable Energies – Wind and Solar Technology” was launched among three companies i.e., International Building Services JSC., Festo Didactic SE, Schneider Electric Vietnam and GIZ. The project aims to develop the Ninh Thuan Vocational College into a training hub for renewable energy and to build up a network of competent TVET institutes to offer initial and further training in wind and solar technologies for Vietnam.
- The pilot campaign on waste auditing and action planning on plastic waste reduction was successfully conducted at VCMI and Long An College with the participation of an estimated 500 students and teachers. Based on the recommendations, both schools are finalizing their action plans to further develop their greening journey.

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