



TrainENERGY

Training for Energy Efficient Operations

August 2018

www.trainenergy-project.eu

THREE YEARS OF QUADRUPLE HELIX CO-CREATION ON ENERGY EFFICIENT OPERATIONS

The TrainENERGY consortium have co-created over the past three years with quadruple helix stakeholders from the United Kingdom, Poland, Italy and Greece in order to develop a cutting-edge training framework for energy efficient operations (EEO). Approaching the project lifecycle's end, the TrainENERGY consortium wishes to ensure the sustainability of its results and to encourage the public to access for free all the publicly available products. See below what you can access !



SKILL-MATRIX DEVELOPMENT

With the TrainENERGY skill-matrix development methodology you can learn how to identify transnational skill-gaps in EEO and match the gap with proper training needs. The TrainENERGY consortium has developed such methodology and applied it in the four target countries of the project in order to develop suitable training curricula that mitigates the identified skill-gap.

ENERGY EFFICIENT OPERATIONS TRAINING CURRICULUM

The TrainENERGY consortium has developed 3 main modules with 9 EEO courses in total that can be integrated both at the postgraduate and undergraduate levels, while also serving industry purposes. All the courses have been produced in co-creation with quadruple helix stakeholders in order to ensure their market relevance. The curriculum package includes: slides, exercises, assessment and reading materials. The 9 courses are on the following topics:

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| <ul style="list-style-type: none"> 01 Technologies for reducing waste 02 Green external operations management 03 Green Purchasing 04 Definition of Environmental Objectives and KPIs | <ul style="list-style-type: none"> 05 Reporting Activities 06 Environmental Databases 07 Technologies for reducing the consumption of raw materials 08 Green Marketing 09 Interventions identification |
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The University Of Sheffield.



UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II



SOUTH-EAST EUROPEAN RESEARCH CENTRE



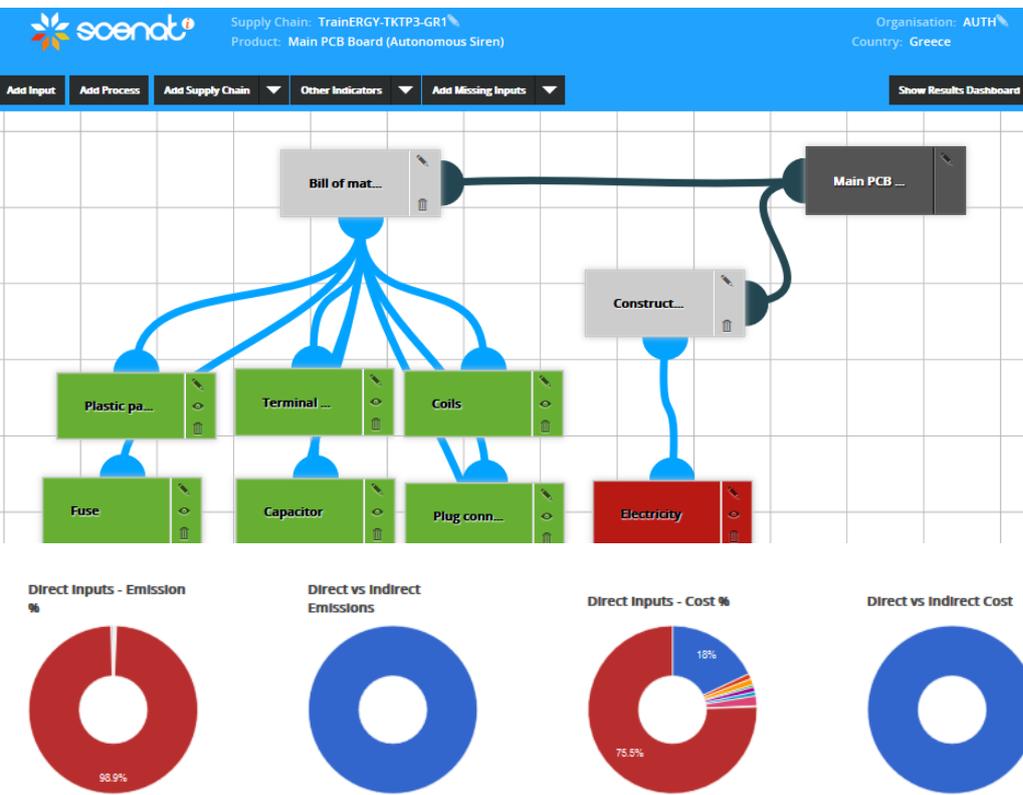
Erasmus+

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THE TrainERGY VIRTUAL LEARNING ENVIRONMENT (VLE)

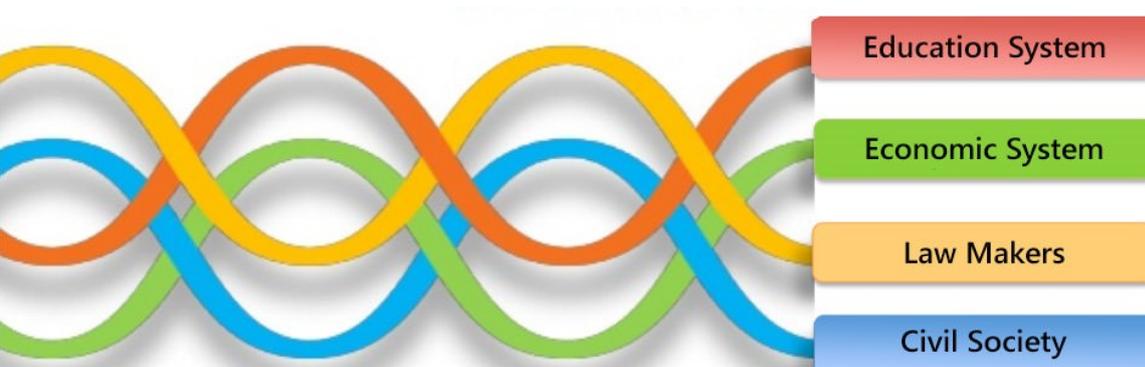
The TrainERGY VLE (<https://www.trainergy-project.eu/virtual-learning-environment>) is an open access platform that anyone can access in order to retrieve: the EEO curriculum, case studies (applications) on real industries and descriptions of best practices in the field of EEO. Besides these, the VLE provides access to an in-built tool—the Supply Chain Environmental Analysis Toolkit (SCEnATi). SCEnATi has been used by top global companies (i.e. Boeing, Jaguar Land Rover, Siemens, IBM, Microsoft, TATA Steel) in order to assess environmental, social and economic impact of their operations. The rationale of TrainERGY was to provide to prospective trainees access to SCEnATi in order for them to develop industry case studies and identify problematic areas which could then be mitigated through the knowledge provided by the TrainERGY curriculum areas.



In order to pilot such co-creation, the TrainERGY consortium has organized 3 training weeks in the United Kingdom, Italy and Greece. During these training weeks, trainees from each project partner (quadruple helix mix) have travelled to the training location and piloted SCEnATi while applying the knowledge gained from the TrainERGY EEO modules delivered by top academics.

LEARN HOW TO CO-CREATE WITH QUADRUPLE HELIX STAKEHOLDERS !

Putting the quadruple helix together is not an easy task ! Divergent views, different goals and objectives, different business language and different timelines make this collaboration hard to implement. Nevertheless, the next generation of higher education institutions require this quadruple helix co-creation in order to ensure that the curricula they are developing are fully market oriented, policy-compliant and socially approved. Only this will ensure that the future graduates can properly integrate into the market and society. Following this ideolog, the TrainERGY project had the task of developing a quadruple helix co-creation toolkit in order to ensure the proper co-creation of the EEO



curriculum. This toolkit provides interaction mechanisms, stakeholder identification strategies, co-creation events and follow-up activities which can enable the required quadruple helix co-creation.

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