

COBENEFITS FUNDAMENTALS Overview



Overview of Renewable Energy Technologies (previously named: Renewable Energy Technologies – Introduction)

Study time:	Approx. 20 hours
Duration:	Approx. 2-3 weeks
Relation to other courses:	Prerequisites: Intro to energy Intro to electricity (recommended) Serves as introduction to the topic (not too technical)
Languages	English and Spanish
Content:	Overview of renewable energy sources Global status and trends in Renewable Energy use Renewable electricity generation technologies Renewable heat / cooling Renewable transport fuels
Objective:	 After completion of this course, participants will be able to Define renewable sources of energy Know the status of global energy supply (fossil, nuclear, renewable) Know the status of renewable energy in global energy supply Understand the different renewable energy technologies Distinguish renewable power, renewable heat technologies and know types of renewable transport fuels Roughly estimate global renewable energy potential Name the major benefits of renewables vs. conventional energy production

Co-benefits of Renewable Energy in Climate Change Mitigation - Overview

Study time:	Approx. 20 hours
Duration:	Approx. 2-3 weeks
Relation to other courses:	Co-benefits Policies: Climate policies to mobilise a renewable energy future Co-benefits Assessment: Methodologies for co-benefits evaluation Overview of renewable energy technologies Integrated Power System Planning (Power System Planning with Co-benefits) PV Business Models (extension- under construction)
Languages	English
Content:	Co-benefits of climate change mitigation Climate and environmental related co-benefits Economic co-benefits Social co-benefits



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	Political / Institutional co-benefits
	Indicators of co-benefits
Objective:	After completion of this course, participants will be able to:
	Develop causal chains for an assessment
	 Interpret, communicate and commission methods for quantitative assessment of co-benefits
	 Interpret findings of co-benefit analyses considering possible unwanted impacts and identifying the net-effects
	 Identify indicators and data sources for quantification of key co-benefits (Jobs/employment, air pollution, health, energy access, local economic development, energy security)
	 Commission and interpret co-benefit analyses and effectively communicate its results
	Prepare schematic cost-benefit analyses
	• Interpret the findings of co-benefit analyses for re-formulating RE policies

Introduction to Energy

Study time:	Approx. 10 hours
Duration:	Approx. 1 week
Relation to other courses:	No prerequisites This course serves as an introduction to all online courses (except economic topics)
Languages	English and Spanish
Content:	Development of energy demand Physical basics Units and conversions
Objective:	 After completing these participants will be able to: Describe the global situation of energy supply and demand Differentiate forms of energy as well as energy and power Name fundamental parameters, units and conversion factors related to energy topics