

International Climate Initiative (IKI)

Mobilising the Co-benefits of Climate Action through Capacity Building among Public Policy Institutions (COBENEFITS)

COBENEFITS



1 What is the “COBENEFITS virtual training programme”?	4
1.1 About the COBENEFITS project	4
1.2 Who should join the “COBENEFITS training programme”?	5
1.3 Training plan overview	5
2 COBENEFITS virtual face-to-face trainings for Mexico, South Africa , Turkey and Kenya	6
2.1 What does “virtual” mean and what are the advantages?	6
2.2 House keeping rules	7
2.3 Tentative dates and topics for virtual face-to-face trainings	8
2.4 Costs, language and application	9
3 COBENEFITS Specialist Online Training	10
3.1 Learning objectives of the COBENEFITS online training	10
3.2 Costs, dates, language and application	11
3.3 Who will receive the certificate “COBENEFITS Specialist in Renewable Energy”?	12
3.4 Courses in the online training “COBENEFITS Specialist in Renewable Energy”	13
3.4.1 Module 1: COBENEFITS Fundamentals	14
3.4.2 Module 2: COBENEFITS Policies	16
3.4.3 Module 3: COBENEFITS Methodology & Energy Planning	18
3.4.4 Module 4: COBENEFITS Sustainable Economies	20
3.4.5 Elective courses: COBENEFITS country case studies	22
4 RENAC Online training features	24
4.1 Live Virtual Classrooms	25
4.2 Why choose RENAC Online	26

International Climate Initiative (IKI)
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Action through Capacity Building
among Public Policy Institutions
(COBENEFITS)



1 What is the “COBENEFITS virtual training programme”

1.1 About the COBENEFITS project

COBENEFITS (Mobilising the Co-Benefits of Climate Change Mitigation through Capacity Building among Public Policy Institutions) is a capacity-building programme that assists relevant policy makers – the key persons that shape climate, energy and environmental policy – in their ability to spur ambitious climate action.

The training component of the COBENEFITS programme is a combination of online training courses (e-learning) and virtual face-to-face seminars. The online training is a guided self-paced study programme. It is designed in four modular steps that each equip participants with thorough background knowledge on the fundamentals of co-benefits, on co-benefits-related policies and mechanisms, on methodologies, tools, and skills to assess, quantify and communicate the various co-benefits of renewa-

ble energy, and on building sustainable, resilient and inclusive economies with co-benefits. The virtual face-to-face training component is complementary to the online training and offers in-depth knowledge on country-specific co-benefits in the COBENEFITS partner countries and on related assessment tools and methodologies. It also offers a transnational virtual classroom training to foster mutual learning among the partner countries for harnessing co-benefits.

With this training programme, participants can acquire background knowledge and practical skills they need in their everyday work on seizing the social and economic benefits of renewable energy in their country context.

The training programme was developed by Renewables Academy (RENAC) within the wider scope of the COBENEFITS project held in conjunction with our partners Institute for Advanced Sustainability Studies (IASS), International Energy Transition (IET) and Independent Institute for Environmental Issues (UfU).

The COBENEFITS project is supported by the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety through the German International Climate Initiative (IKI).



1.2 Who should join the „COBENEFITS training programme”?

This training suits you:

are a citizen of, or working in one of the following IKI-partner countries:

- South Africa
- Turkey
- Mexico
- Kenya

are working in the following public and private sectors:

- Ministries recognising the importance of climate protection/policy and/or with responsibility for climate and energy policy on national level
- Policy makers on subnational/state level
- Subordinate authorities and regulators, regional or local administration
- Energy or climate related agencies, think tanks and research institutions
- Financial institutions

have a sincere interest in:

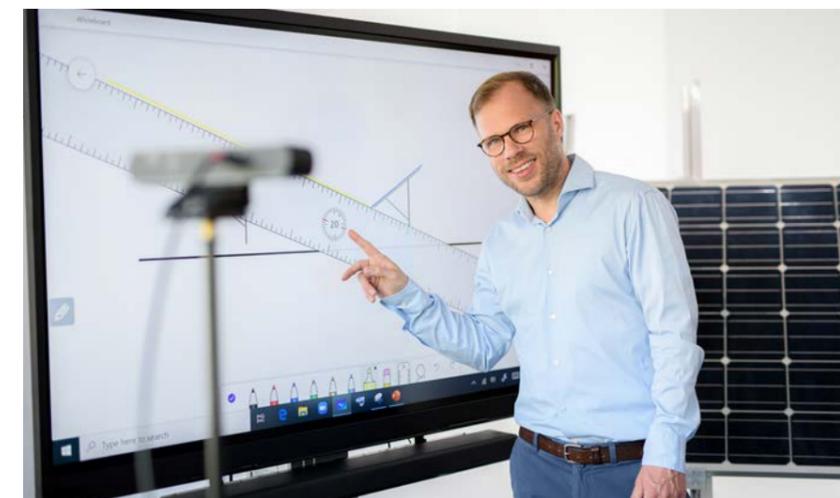
- tackling climate change issues and advancing the energy transformation in your home country
- seizing the social and economic benefits of renewable energy for a “Just Transition”

1.3 Training plan overview

The following graph shows all planned virtual classroom trainings and online trainings for partner countries and languages:



Figure 1: Trainings in the COBENEFITS programme organised by RENAC



2 COBENEFITS virtual face-to-face trainings for Mexico, South Africa, Turkey and Kenya

So far, RENAC has always combined distance / online learning with physical face-to-face trainings. The current global health crisis has, however, created substantial challenges. There are many new options and means of communication, and also some advantages of **VIRTUAL TRAININGS**:

There are however many new option and means of communication and also some advantages of online learning:

- you can experience a similarly intense learning experience, regardless of your geographical location
- you increase your flexibility and freedom with virtual training formats
- you can learn and study whenever and wherever you want
- you can reduce disruptions of your daily business and professional commitments
- you can save time, as you do not have to travel long distances but still receive a similar level of quality as in a physical face-to-face training
- your organisation saves costs and resources by saved travel expenses or paying staff to come for an in-house training
- you reduce travel related greenhouse gas emissions.

RENAC will constantly update the training schedule. Keep yourself informed about forthcoming virtual training opportunities in your country and about the application procedures on RENAC's website: www.renac.de/projects/current-projects/cobenefits.

Two virtual face-to-face trainings are planned per country. The topics are chosen according to identified country-specific priorities, to be defined in the course of the project, and continuously updated here.

The virtual face-to-face trainings are designed in adaptation to the respective national/regional/local country-context. Didactic methods and a variety of teaching methods to create a supportive learning environment are applied in the virtual face-to-face seminars. Please see the "Housekeeping rules" below to prepare for your participation.

Participants receive a digital RENAC certificate upon complete participation in the virtual classroom training. The certificates reflect the content and skills learned in each training.

Due to COVID 19 related travel restrictions and travel bans/health risks, physical face-to-face trainings are currently not planned. For the time being and until further notice, a focus is put on a variety of formats in distance/ e-learning and corresponding tools. RENAC has made positive experiences in the adaptation of "classical" face-to-face training concepts to virtual formats.



2.1 Transnational (virtual) F2F training

The transnational classroom training is targeting participants from all four partner countries. There are 12 seats available. The training serves to foster international mutual learning and capacity building among policymakers, knowledge partners and multipliers.

The aims of this transnational training are

- to implement a practice-oriented training approach and
- to strengthen the exchange of experiences between training participants.

RENAC plans to consider the following topics:

- "Didactic methods for interactive trainings, co-benefits knowledge application and co-benefit case studies".
- "Co-benefits methods" and „Energy system planning with co-benefits“ trainings

2.2 "Housekeeping rules"

To make the virtual seminars as alive and personal as possible, RENAC summarised the following. We call it "Housekeeping rules":

- Be present & be active
- We want you to be involved, so please do not hesitate to ask questions
- Raise your hand if you want to say something
- Use the chat to write questions
- Keep your video on
- Use the gallery mode, it allows you to see everyone
- Mute yourself if you are not speaking as it avoids disturbing background noise
- Address technical issues in private chat with technical Assistance

Interactive virtual seminars:

- During the event, we will also work with „Breakout Rooms“ where you will be able to network, socialize and work in smaller groups. The moderator who determines the time for the breakout sessions will activate the breakout rooms.
- In the group rooms, you can use the whiteboard and the chat for interaction in your group.

Best practice recommendations:

- Make sure to have a stable internet connection
- Ensure power supply for your laptop/ computer to avoid shut down
- Use headset to avoid disturbing background noises
- Use a neutral background and ensure good lightning
- Be in a room where you can work quietly without interruptions from other parties (especially recommendable in times of home office)
- Have pen and paper prepared to take notes
- Don't forget about a glass of water and some snack to keep the energy flow high
- No must-have, but useful: Work with two screens

2.3 Tentative dates and topics for virtual face-to-face trainings

South Africa

1 First virtual F2F training	2 Second virtual F2F training
03 – 05 May 2021	08 – 10 November 2021
Topic ▪ Employment impacts of RE for South Africa	Topic ▪ Quantifying socioeconomic benefits related to RE deployment in Mpumalanga, South Africa

Mexico

1 First virtual F2F training	2 Second virtual F2F training
07 – 09 December 2020	22 – 24 March 2021
Topic ▪ Job creation with RE in Mexico	Topic ▪ Job creation with RE in Mexico on sub-national level

Turkey

1 First virtual F2F training	2 Second virtual F2F training
31 May – 02 June 2021	11 - 13 October 2021
Topic ▪ Employment impacts of RE in Turkey	Topic ▪ Development of electricity prices & industry competitiveness through RE power generation in Turkey



Kenya

1 First virtual F2F training	2 Second virtual F2F training
06 - 08 December 2021	7 - 9 March 2022
Topic ▪ Methods and tools for quantifying and communicating co-benefits of renewable energy in Kenya	Topic ▪ The social performance of renewable energy projects in Kenya

Transnational

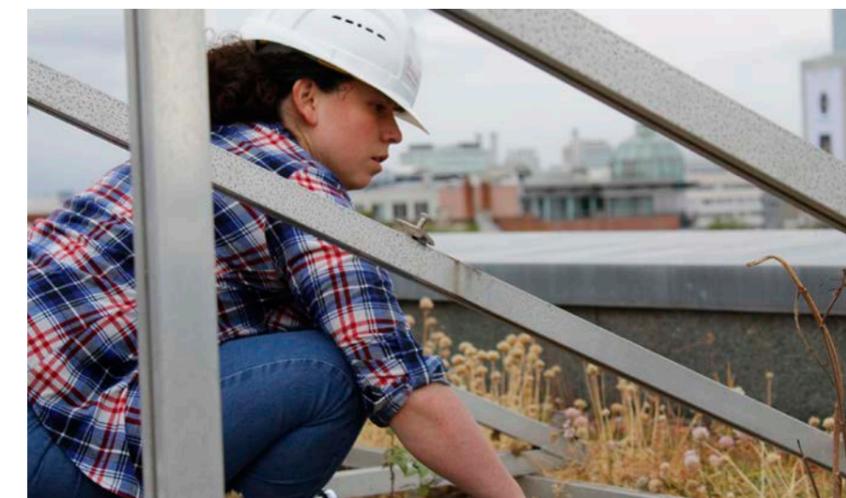
1 First virtual F2F training
28 March – 07 April 2022
Topic ▪ Didactics “Climate Action and Sustainable Development with Co-Benefits of Renewable Energy”, SCREEN tool

2.4 Costs, language and application

Participation in all virtual face-to-face trainings is funded by a scholarship, covered within the COBENEFITS programme by the International Climate Initiative (IKI).

The transnational classroom training, as well as the face-to-face trainings for participants from South Africa and Kenya will be conducted in English. The face-to-face trainings for participants from Mexico and Turkey will be conducted in Spanish/English and Turkish/English respectively, with simultaneous live translation.

Potential candidates apply for participation in the virtual face-to-face trainings via an application tool on RENAC’s website. Application opens a few weeks before training, and RENAC will update and publish the information continuously throughout the course of the programme. Specific dates and topics will be announced on our website: www.renac.de/projects/current-projects/cobenefits.

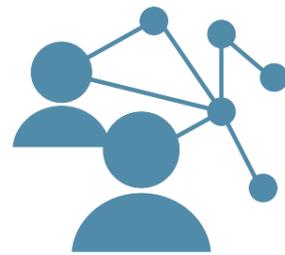


3 COBENEFITS Specialist Online Training

COBENEFITS is offering a modular online training in four steps on co-benefits of renewable energy for governmental departments and agencies in charge of climate and energy policies.

Applicants from South Africa, Turkey, Mexico and Kenya are eligible to apply for the COBENEFITS online training. Training places are limited to 275. In case these places are not filled

by eligible candidates from the four partner countries, suitable candidates from ODA-recipient countries may apply for participation in the online training.



3.1 Learning objectives of the COBENEFITS online training

The learning objectives of the online training “COBENEFITS Specialist in Renewable Energy” are to help participants in their professional career. The aim is to enable them to know and apply the co-benefits concept. With the title “COBENEFITS Specialist in Renewable Energy”, they will be equipped to work in areas of public and private employers who want to develop and apply roadmaps, political strategies and argumentation to advance

the deployment and application of renewable energy – and to understand the related social and economic development opportunities, on local, regional and national level. To this end, participants of the “COBENEFITS Specialist in Renewable Energy” training will learn complex and in-depth information about co-benefits of renewable energy and practice their application. In addition to the theoretical background and

definitions, they will learn arguments for climate protection activities, be able to quantify the additional benefits and apply methods for evaluation. Further learning objectives include appropriate policy options and planning of energy systems as well as job creation for building sustainable economies.

In detail, participants who have successfully participated in the course will be able to:

- understand the theoretical background and origins of the co-benefits concept
- define co-benefits
- argue for the importance of renewable energy use in international climate mitigation activities
- estimate quantifications of co-benefits / apply methodologies to assess / estimate co-benefits
- interpret findings of co-benefits analyses and assessments for (re) formulating renewable energy policies
- discuss suitability of policy regulations

- for different phases of the energy transition and of policy options for harnessing different co-benefits
- compare tools used for power system planning and how co-benefits can be included in the planning process
- explain the impact of renewable energy for domestic job creation and building sustainable economies

3.2 Costs, dates, language and application

Interested participants have to apply online via RENAC’s website and accept the terms of reference for the scholarship. The terms of reference are attached to this document or can be downloaded from RENAC’s website. RENAC will choose 275 participants according to the information provided in the application form, e.g. ensure that the participants are part of the target group. Participants accepted for a training will receive a confirmation email from RENAC.

Participation in online trainings will be covered by a scholarship of Germany’s International Climate Initiative (IKI). This includes access to course material, support by RENAC and a PDF-certificate. Participants of the online training should have access to a stable internet connection and a desktop computer or mobile device.

The online training materials and features are in English language. The COBENEFITS online training will – under reservation – also be developed in Spanish. We will keep you informed on next steps and availability.

Deadline: application is closed
 Start: 15 October 2020
 275 places in total
 Website: www.renac.de/projects/current-projects/cobenefits-modules-2020

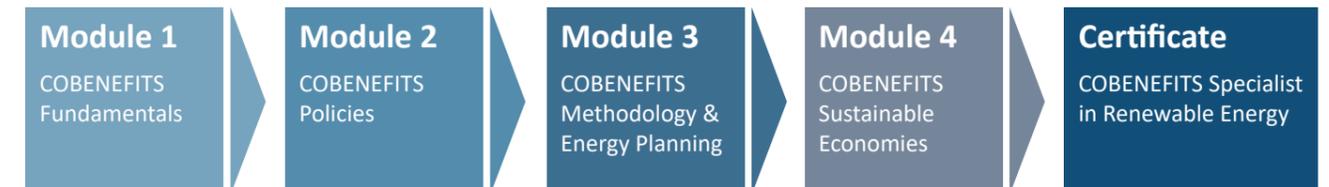


Figure 2: Four modules of the COBENEFITS Specialist in Renewable Energy training



3.3 Who will receive the certificate “COBENEFITS Specialist in Renewable Energy”?

- Each of the four online training modules will be finalised with an exam. Participants who score at least 70% in the online exam will receive a RENAC certificate for the respective module that is completed.
- Candidates who successfully complete module I, II III and IV will receive an additional certificate under the title “COBENEFITS Specialist in Renewable Energy”.

Assignments and how they count for the final exam:

Participants are invited to enrich the course with personal experiences that they have made themselves, or report on projects that were supported in their countries with co-benefits arguments. The aim is to strengthen the exchange and networks between participants and to learn from the experiences of others. By this, courses get country- and participant-specific. There is one assignment per module. The assignments are included in the final grade: 5% is credited per assignment.

3.4 Courses in the online training “COBENEFITS Specialist in Renewable Energy”

The online training of the COBENEFITS programme comprises four modules. These modules can be taken as a consecutive programme, but also individually, as each module stands for itself. There are several online courses in each module, with texts, illustrations, exercises and teaching videos. In addition to the four online training modules there is a range of elective courses participants can choose from (3.4.5).

Modules

Module 1

includes two courses providing background knowledge on energy and on renewable energy technologies, and offers a general introduction and overview on the co-benefits concept.

Module 2

delves into the political frameworks and mechanisms surrounding co-benefits of renewable energy.

Module 3

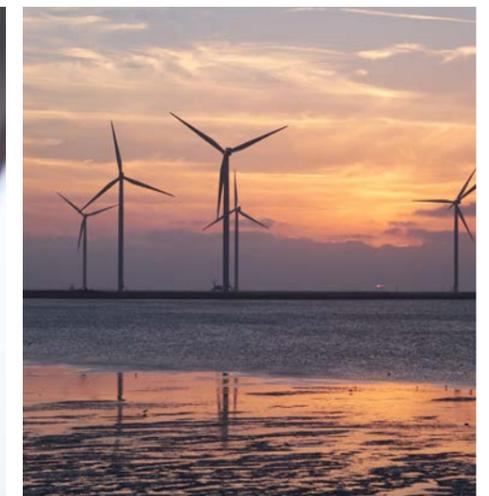
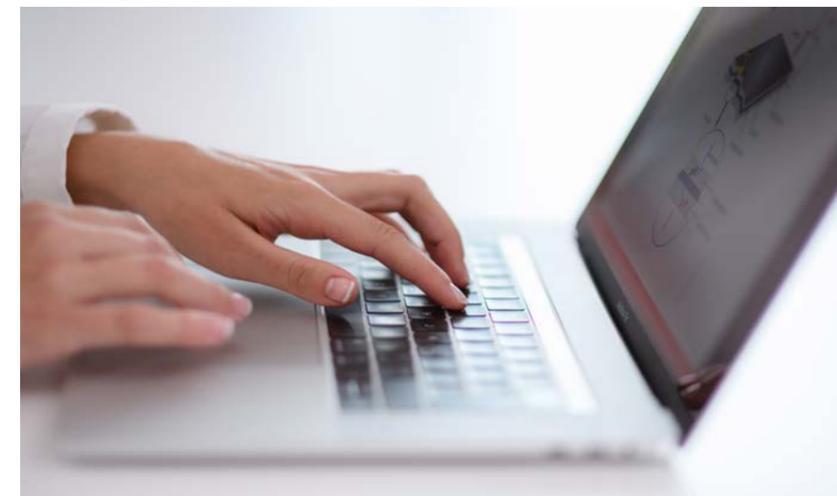
explores methodological and technical aspects such as sustainable power system planning and assessment methods and tools in the co-benefits context.

Module 4

is currently being developed and will focus on economic sustainability with co-benefits of renewable energy.

Elective courses

In addition to the four online training modules there is a range of elective courses participants can choose from (please look at chapter 3.4.5).



3.4.1 Module 1: COBENEFITS Fundamentals

CERTIFICATION	Courses	Study time	Week
COBENEFITS FUNDAMENTALS	Overview of Renewable Energy Technologies	20 hours	15/2020 – 10/2020
	Co-benefits of renewable energy in climate change mitigation – Overview	20 hours	10/2020 – 11/2020
	Introduction to Energy	10 hours	11/2020 – 11/2020
	Final exam	27 – 29 November 2020	
Duration: 15 October – 29 November 2020			

Overview of Renewable Energy Technologies

Learning objectives

Upon 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

Content

- Overview of renewable energy sources
- Global status and trends in Renewable Energy use
- Renewable electricity generation technologies
- Renewable heat / cooling
- Renewable transport fuels



Co-benefits of renewable energy in climate change mitigation - Overview

Learning objectives

Upon completion of this course, participants will be able to:

- interpret, communicate and commission methods for quantitative assessment of co-benefits
- develop causal chains for an assessment
- 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

Content

- Co-benefits of climate change mitigation
- Climate and environmental related co-benefits
- Economic co-benefits
- Social co-benefits
- Political / Institutional co-benefits
- Indicators of co-benefits

Introduction to Energy

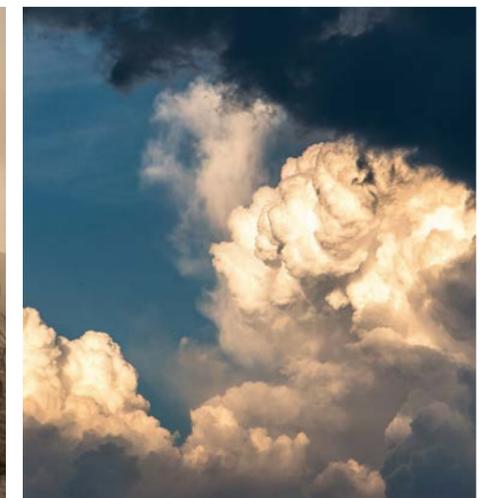
Learning objectives

Upon completion of this course, 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

Content

- Development of energy demand
- Physical basics
- Units and conversions



3.4.2 Module 2: COBENEFITS Policies

CERTIFICATION	Courses	Study time	Week
COBENEFITS POLICIES	International climate policy and national implementation	40 hours	17/12/2020 – 01/2021
	Climate finance	40 hours	01/2021 – 02/2021
	Policy frameworks for RE power generation	40 hours	02/2021 – 03/2021
	Final exam	02 – 04/04/2021 Resit 09 – 11/04/2021	
Duration: December 2020 – April 2021			

International climate policy and national implementation –

Policies and instruments to mobilise the social and economic co-benefits of renewable energy

Learning objectives

Upon completion of this course, participants will be able to:

- understand the basics of climate science behind the Paris Agreement and
- know important milestones in the history of the road to the Paris Agreement
- know the basic elements and architecture of the Paris Agreement
- understand how international agreements like the Paris Agreement
- understand the linkages between SDGs and NDCs/understand the implications of a country’s NDC
- understand how international climate policy can help to integrate and mainstream national climate policy options to support renewable energy deployment
- relate the periodic elements of the Paris Agreement to national policy processes with respect to key components
- reflect about the role of Co-Benefits in the Paris Agreement and the SDGs

Content

- IPCC reports (climate impact scenarios and pathways to 1.5°C /2°C)
- UNFCCC, UN sustainable development agenda; Paris Agreement (goals, NDCs, transparency framework and global stocktake)
- NDCs – means of implementation (finance, technology, capacity building)
- Key actors, participatory processes, measuring progress
- National enabling political environments and policies



Climate finance

Learning objectives

Upon completion of this course, participants will be able to:

- compare the roles and respective contribution of the main players and institutions involved in the climate finance landscape
- distinguish between the different sources and mechanisms of climate finance
- assess the suitability of various sources and mechanisms for specific projects
- analyse practical examples of climate finance concepts

Content

- Principles of climate finance
- Sources and mechanisms of climate finance
- Frameworks to deliver finance for climate action

Policy frameworks for renewable energy power generation

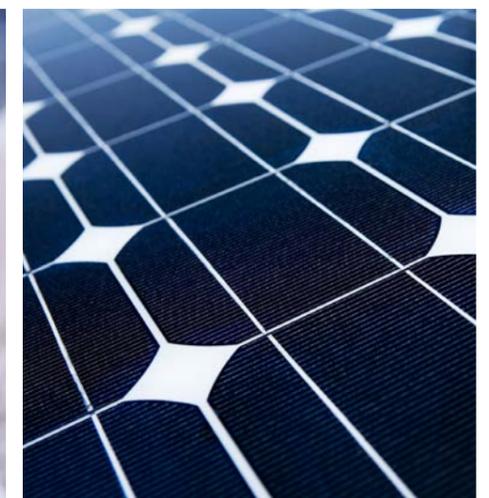
Learning objectives

Upon completion of this course, participants will be able to:

- analyse the most widely used support mechanisms for renewable energy - feed-in tariff, net-metering, auction, etc.
- analyse and design the most widely used support mechanisms for renewable energy
- determine conditions to design successful support mechanisms or regulatory policies
- discuss suitability of policy regulations for different phases of the energy transition

Content

- Introduction to renewable energy policy and target setting
- Net-metering for distributed generation - cost development, grid parity, net metering and risks of self-consumption policies
- Feed-in tariffs for distributed generation and large-scale projects
- Competitive procurement/auctions for large-scale projects
- Additional incentives
- Policies for smooth technical and market integration of renewable energy



3.4.3 Module 3: COBENEFITS Methodology & Energy Planning

CERTIFICATION	Courses	Study time	Week
COBENEFITS METHODOLOGY & ENERGY PLANNING	Co-Benefits Assessments: Methods and tools to identify and communicate social and economic opportunities of RE	20 hours	16/04/2021 – 05/2021
	Integrated Power System Planning with Co-Benefits	20 hours	05/2021 – 05/2021
	Introduction: Renewable energy grid integration	40 hours	05/2021 – 06/2021
	Final exam	02 – 04 July/2021 (tbc) Resit 09 – 11 July 2021 (tbc)	
Duration: April – July 2021			

Co-benefits Assessments: Methods and Tools to assess social and economic benefits of RE

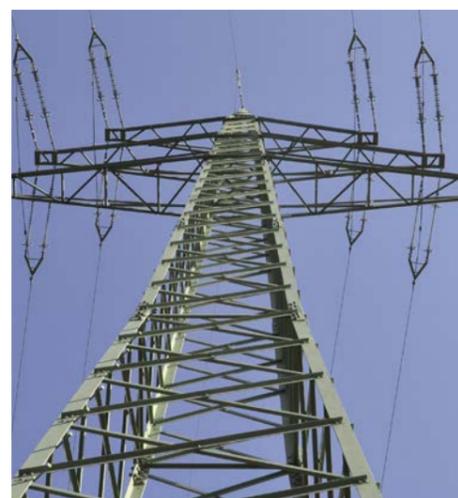
Learning objectives

Upon 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

Content

- Introduction: Quantification of co-benefits: Assessment methods
- Scoping of effects: direct, indirect and induced effects
- Scoping: gross and net effects; methodologies for assessing/evaluating co-benefits
- Introduction to modelling tools
- Key socio-economic co-benefits: jobs and employment, climate and environment,
- Health Energy Access Energy Security, local economic development
- Key socio-economic co-benefits in South Africa, India, Vietnam, Turkey, Mexico and Kenya



Integrated Power System Planning with Co-benefits

Learning objectives

Upon completion of this course, participants will be able to:

- explain the differences between the traditional and modern power system planning approaches, based on different load curve methods and incorporation of co-benefits
- compare tools used for power system planning and how co-benefits can be used during the planning process
- explain how selected co-benefits of renewable energy, e.g. information on “global warming and human health effects of ambient air quality”, affect the outcome of power system planning

Content

- Introduction and typical questions of power system planning
- Traditional electric power systems planning with power production in central generating stations and power delivery to the points of end use via transmission and distribution systems
- Long-term electric power system expansion planning considering residual load approach and co-benefits of wind power and solar-PV
- Software tool overview used for power system planning taking into account co-benefits of renewable power generation (Purpose, features and covered co-benefits / environmental effects)
- Power system planning case studies considering co-benefits of wind and solar-PV

Renewable Energy Grid Integration

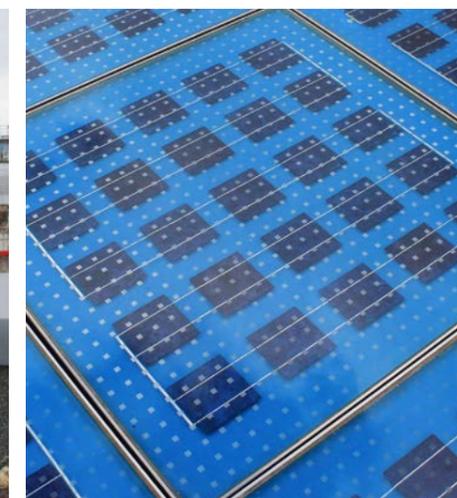
Learning objectives

Upon completion of this course, participants will be able to:

- explain the use and development of time series for variable renewable energy
- present the basics about power system operation, scheduling and forecasting
- describe the purpose and types of balancing power and management of grid congestion
- discuss capacity planning methodologies, grid codes and the development of grid studies

Content

- Time Series of Variable Renewable Energies
- System Operation: Scheduling and Forecasting
- Balancing Power Calculation Methodology, management of Grid Congestion
- Capacity Planning
- Grid Code Development, grid and System Integration Studies



3.4.4 Module 4: COBENEFITS Sustainable Economies

CERTIFICATION	Courses	Study time	Week
COBENEFITS SUSTAINABLE ECONOMIES	Employment effects of renewable energy deployment - An Overview	40 hours	15/7/2021 – 8/2021
	Methodologies for quantifying renewable energy employment impacts	20 hours	8/2021 – 8/2021
	Sustainable economic recovery with co-benefits of renewable energy	40 hours	8/2021 – 9/2021
	Final exam	24 – 26/09/2021 (tbc) Resit 01 – 03/10/2021	
Duration: July – October 2021			

Employment effects of renewable energy deployment – An Overview

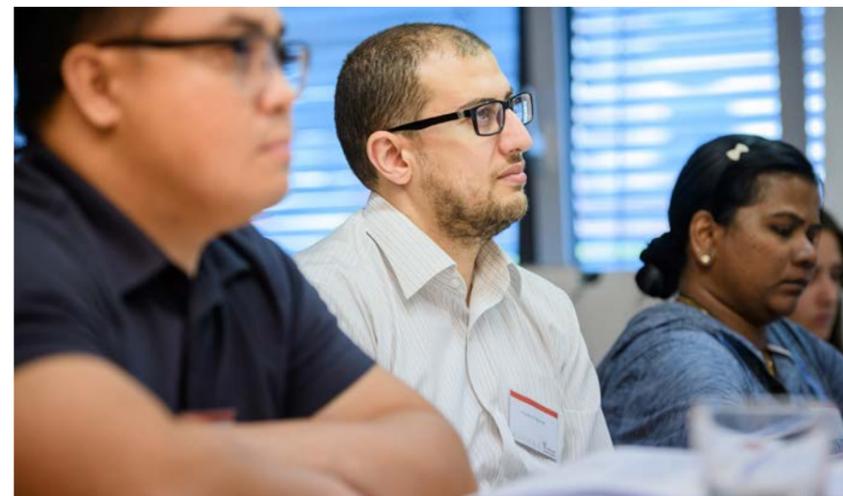
Learning objectives

Upon completion of this course, participants will be able to:

- understand how renewable energy creates different types of employment
- differentiate direct, indirect and induced employment
- analyse the quantitative and qualitative employment effects of the energy transition
- identify the main concepts and trends influencing renewable energy sector employment
- describe how to prepare the ground for future renewable energy employees
- apply the (policy) lessons learned about renewable energy deployment in three different countries

Content

- Renewable energy employment categories
- Global overview of RE employment
- Employment net gains and job effects of different RE technologies
- Strategies for leveraging RE employment and skills development



Methodologies for quantifying renewable energy employment impacts

Learning objectives

Upon completion of this course, participants will be able to:

- assess the impact of renewable energy in direct, indirect and induced jobs
- estimate employment growth and skills development in renewable energy value chains
- identify different existing methodologies to estimate job effects of renewable energy sources
- know various methodologies to quantify the job effects of photovoltaics, wind energy and biomass
- apply an approach to adapt the methodology to your country
- use tools to conduct job assessments for your country

Content

- Types of employment and impacts; employment factor analysis
- Gross input-output models
- Full economic modelling
- Overview of open-access online tools

Sustainable economic recovery with co-benefits of renewable energy

Learning objectives

Upon completion of this course, participants will be able to:

- describe the impact of economic crises on different components of the energy sector
- understand how economic crises intensify the urgency/provide opportunities to expand renewable energy and its co-benefits
- explain why the transition to clean energy technologies can be an attractive part of economic recovery packages, with many social and economic benefits
- give examples of key policy strategies that can be applied in green recovery packages

Content

- Renewable energy development impacts on investment, employment, supply chains, energy access
- The impact of economic crises on renewable energy
- Green Recovery programmes and renewable energy investment frameworks
- Financing means & fiscal measures
- Green Recovery Programmes and employment opportunities
- Green Recovery Programmes and renewable energy industrial policies
- Green Recovery and energy access policies



3.4.5 Elective courses: COBENEFITS country case studies

There are several elective courses on country-specific co-benefits case studies. These case studies have been carried out in the first phase of the COBENEFITS project (2017-2020) by local knowledge partners in the partner countries. The studies assess country-specific co-benefits across different renewable energy scenarios, with scientifically grounded data and methodologies, to deliver country-specific policy messages to boost the use of renewables.

With its co-benefit assessment studies, the COBENEFITS project explores how ambitious domestic renewable energy and climate change mitigation targets will be supportive of other social and economic performance targets of governments and ministries in the partner countries. Selecting and prioritising co-benefits, as focus topics of subsequent co-benefits studies and capacity building activities, and connecting them to current interests and missions (key performance indicators) of the partner countries' governments (ministries, government departments) is one of the key phases in the COBENEFITS process.

The applied methodologies, analysed scenarios, key findings and related policy recommendations form the content of the corresponding online courses. The elective courses require approximately 10 hours study time each, and will be accessible in 2021.

South Africa

Case studies on co-benefits assessments for South Africa
Future skills and job creation through renewable energy in South Africa
Economic prosperity for marginalised communities through renewable energy in South Africa
Improving health and reducing costs through renewable energy in South Africa

Turkey

Case studies on co-benefits assessments for Turkey
Future skills and job creation through renewable energy in Turkey
Industrial development, trade opportunities and innovation with renewable energy in Turkey



Mexico

Case studies on co-benefits assessments for Mexico
Oportunidades de empleo y desarrollo de capacidades a través de las energías renovables (Generating future-oriented employment and skill development)
Ahorro de costos y generación de ingresos en edificios públicos con energías renovables y medidas de eficiencia energética (Generating savings and incomes in public buildings)

India

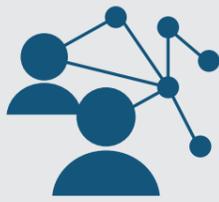
Case studies on co-benefits assessments for India
Future skills and job creation through renewable energy in India
Secure and reliable electricity access with renewable energy mini-grids in rural India
Improving health and reducing costs through renewable energy in India

Vietnam

Case studies on co-benefits assessments for Vietnam
Future skills and job creation through renewable energy in Vietnam

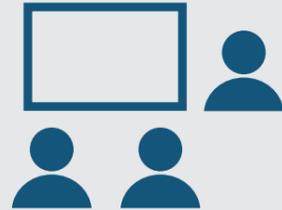


4 RENAC Online training features



RENAC online helps you:

- Boost your professional career
- Study with flexibility following your own schedule
- Learn at any time and from any location



RENAC Online offers extensive support & interactive learning:

- Videos
- Graphics
- Exercises for self-evaluation



RENAC online staff are:

- Certified e-learning trainers
- Experienced professionals
- In direct contact with the industry



Motivation plays the most important role for successful learning. In order to offer an enjoyable and sustainable training, RENAC will use a range of teaching methods. RENAC chose the methods according to the learning target of each teaching unit.

Teaching methods include:

- Independent study phases of varying length (texts, videos, tests for self-evaluation and further reading material).
- Experts will offer individual support via an online-forum for questions and answers.
- Participants will meet in virtual classroom sessions and present written assignments.
- In order to receive a certificate, participants are required to successfully pass an exam at the end of an online training module.
- To refresh basic knowledge of essential concepts required for passing online exams, RENAC offers all participants introductory courses and additional courses.
- All self-study online training material will be accessible at any time during the study phase. Additionally, online training participants can download course texts (PDF files) and videos for offline use.
- Virtual classroom sessions and online exams take place at fixed dates that are communicated during the study phase.
- The online training will be held via RENAC's e-learning platform (<https://renewables-online.de/>).



4.1 Live virtual classrooms (webinars)

There will be one live virtual classroom meeting per module during the COBENEFITS online training. These live events are not mandatory, but participation is strongly recommended. These sessions offer a platform for networking, the opportunity to interact with each other, and to present the written assignments to one another.

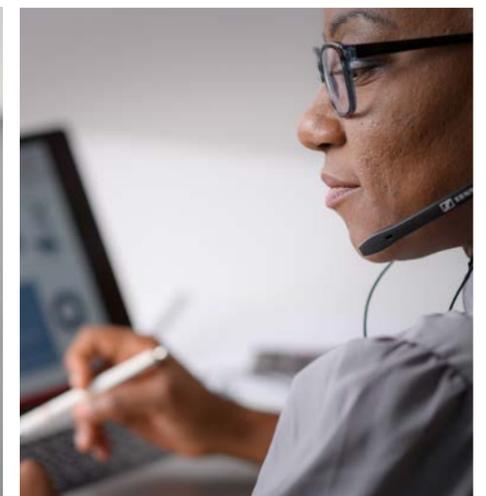
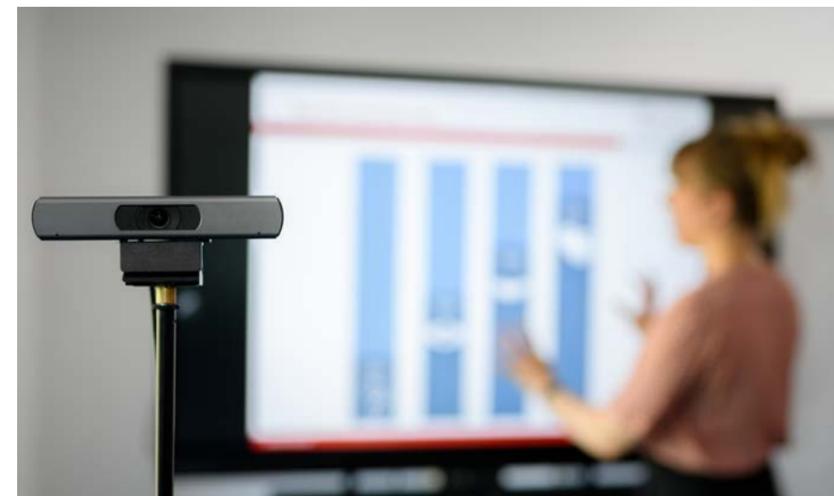
Technical information

You need to provide an e-mail address, which you check regularly. Furthermore you need a computer with a stable internet connection (at least 2 Mbit/s). For webinars, the AdobeConnect add-in or app should be installed, and a headset or speakers are required to listen to the presentation.



Demo Platform

For a first impression of our online platform, have a look at:
<http://renewables-online.de/blocks/demologin/logindemo.php?course=Demo>



4.2 Why choose RENAC Online?

Self-study material

- 1 Text and images**
Courses are structured in small, illustrated units of instruction; learners are guided through the material step-by-step.
- 2 Videos**
Video lectures explain some of the most important topics in a visual and entertaining way.
- 3 Tests**
Many self-assessment tests within each course help participants to test their knowledge.

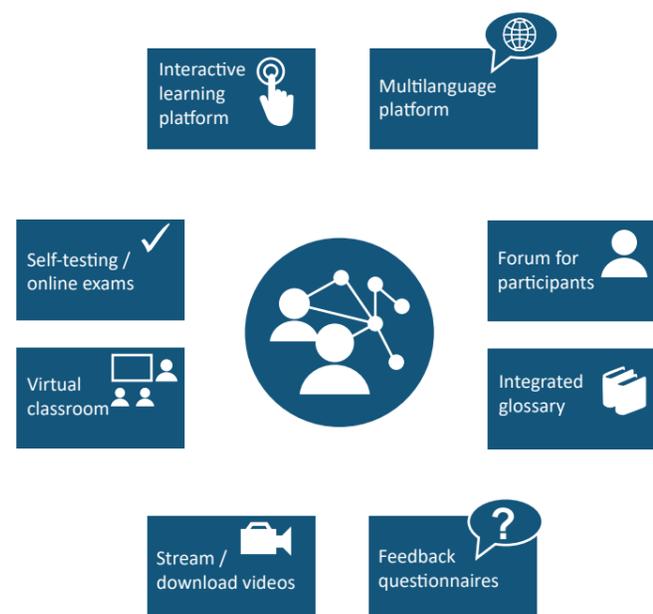
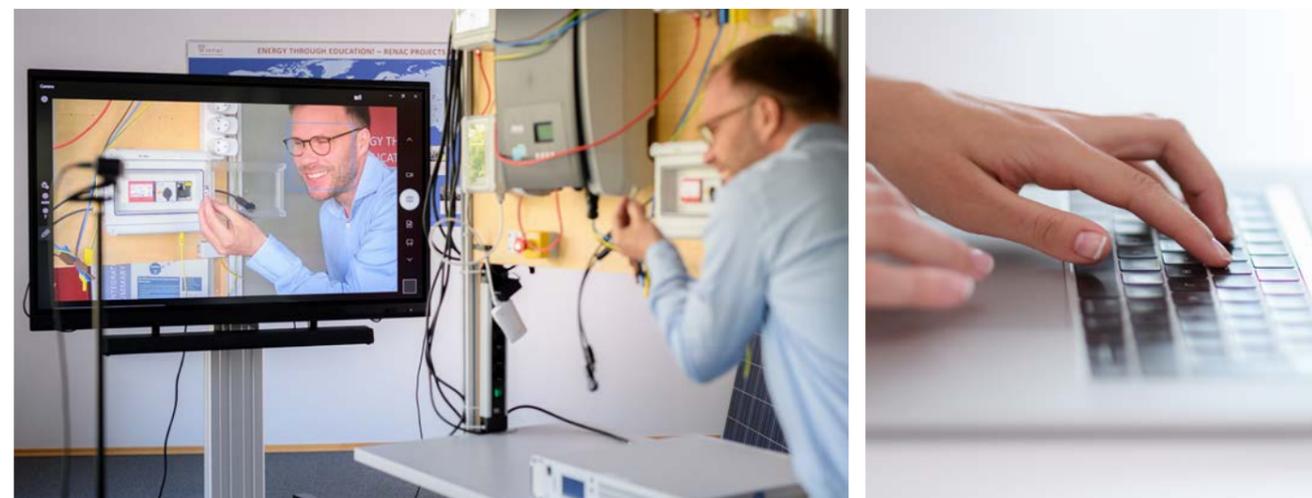


Figure 3: RENAC online features



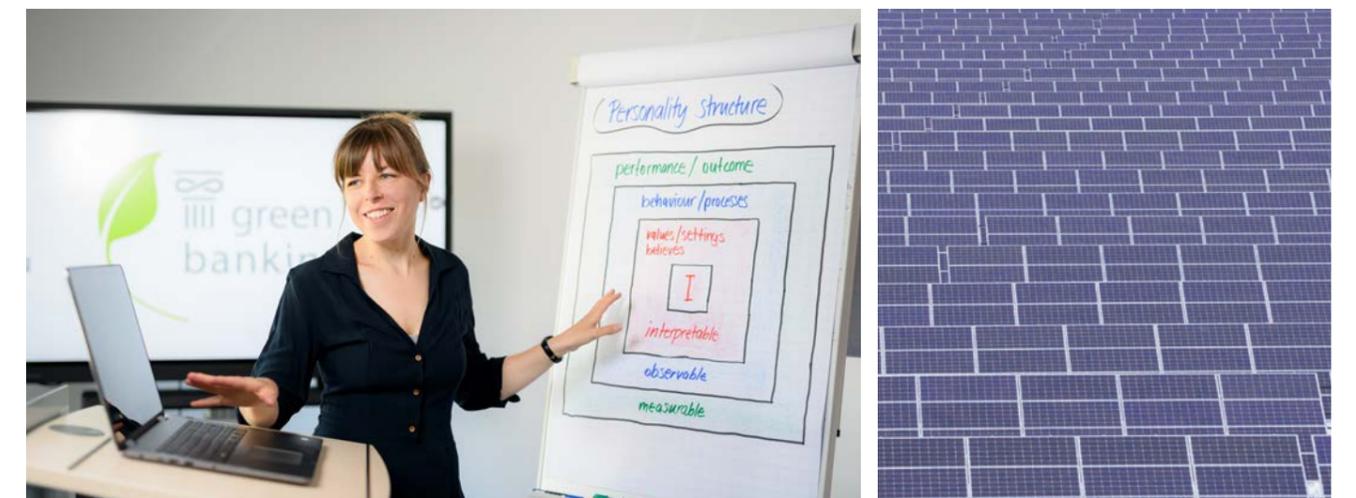
Extensive support

- 1 Forum**
Support and communication take place in a discussion forum. RENAC monitors the forum constantly. RENAC experts are ready to give assistance and answer content-related questions.
- 2 Assignment**
Within each training module, participants are asked to answer 1-2 assignment questions based on the courses' contents. RENAC gives individual feedback for these assignments.
- 3 Virtual training**
Participants are strongly encouraged to attend the live virtual classroom sessions. These are guided and moderated by RENAC. In the live meetings, participants present their written assignments and discuss and connect with each other.



Certificate

All participants who score above 70% in the final online exam of each training module will receive a RENAC certificate. Participants who successfully pass all four modules will receive the "COBENEFITS Specialist in Renewable Energy" certificate.



Contact:

Albrecht Tiedemann

Project Director

Tel: +49 (0)30 58 70870 40

Fax: +49 (0)30 58 70870 88

Email: tiedemann[at]renac.de

Charlene Rossler

Project Manager

Tel: +49 (0)30 58 70870 43

Fax: +49 (0)30 58 70870 88

Email: rossler[at]renac.de

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COBENEFITS

www.renac.de/projects/current-projects/cobenefits