

# MENALINKS eLearning Training Programme

Powering the Future: Renewable Energy Integration  
and Power-to-X (RE-PtX)

Scholarships for professionals in  
Egypt, Jordan, Morocco, Tunisia and Türkiye

APPLICATION  
DEADLINE!

**15 MARCH  
2026**

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# PROGRAMME BACKGROUND

**MENALINKS** is a regional initiative under the International Climate Initiative (IKI), aimed at addressing technical, regulatory, and financial barriers to large-scale renewable energy integration and sector coupling in the MENA region. By leveraging a collaborative approach between leading national and international stakeholders, the programme enables effective policy development, innovative technology solutions, and capacity building through training.



The eLearning initiative is an integral part of **MENALINKS'** efforts to build local expertise, support ambitious climate and renewable energy goals, and facilitate the integration of renewables across power, transport, industry, and building sectors.

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based on a decision of the German Bundestag

## CONSORTIUM



## PROGRAMME OVERVIEW

### Advancing sector-coupling and renewable energy integration across the MENA Region

The MENALINKS eLearning Training Programme “Powering the Future: A Training in Renewable Energy Integration and Power-to-X (RE-PtX)” is an in-depth online training designed for professionals in Egypt, Jordan, Morocco, Tunisia, and Türkiye.

Through this scholarship programme, participants complete eight expert-designed courses and over 130 hours of study across five months, gaining in-demand knowledge in sector coupling, renewable energy integration, artificial intelligence, urban cooling, green hydrogen finance and due diligence, and Power-to-X pathways. Three additional practice-based courses will be developed later by MENALINKS and made accessible to scholarship holders.

By joining the RENAC-led curriculum, you access state-of-the-art insights that support the region’s transition toward smart grids, decarbonised energy systems, and innovative sector coupling—with up-to-date content drawn from international best practices.

Participation in this fully funded programme is supported by the International Climate Initiative (IKI) of Federal Government of Germany, with only 75 places available for eligible applicants through a competitive selection process.

#### PARTNER COUNTRIES

Egypt, Jordan,  
Morocco, Tunisia,  
Türkiye

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## APPLICANT PROFILE

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### Is this training programme for you?

If you work in energy, infrastructure, climate action, or utility markets in one of the five partner countries and want to drive renewable energy and sector coupling solutions, this programme is for you. Develop deep technical, operational, and financial expertise in areas like Power-to-X, grid flexibility, urban cooling, battery storage, and green hydrogen finance. Expand your network, boost your career, and earn a RENAC certificate — recognised globally for excellence in renewable energy training.

### This training is designed for professionals who want to:

- Deepen their technical, operational, and financial knowledge in renewable energy and sector coupling.
- Accelerate their career prospects and contribute to a sustainable energy transformation in their country.
- Network with leading experts and practitioners across the region.
- Earn a certificate from RENAC, a leading global academy in renewable energy and energy efficiency training.

### REQUIREMENTS

Professionals employed in one of the partner countries

Professionals with at least 5 years sector-relevant experience

Professionals with demonstrable need for RE-PtX training



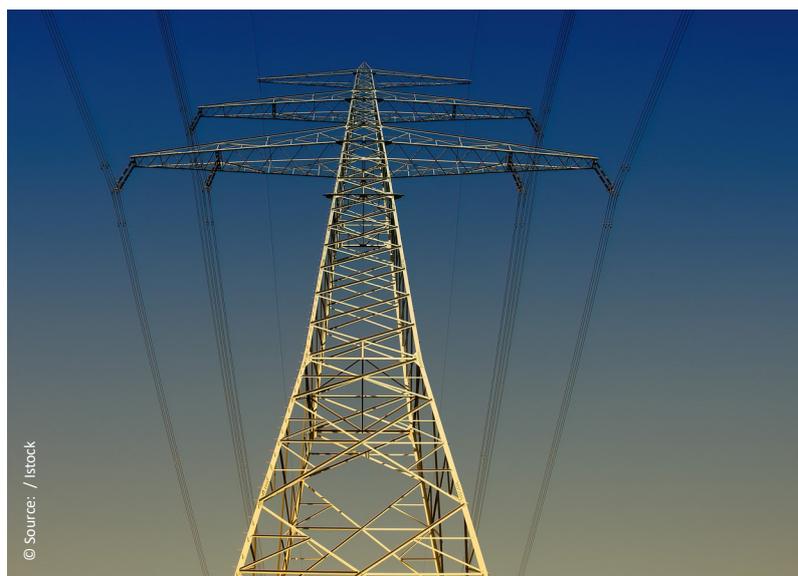
## TRAINING CONTENTS

Participants will gain in-depth knowledge across all pillars of renewable energy integration and sector coupling, including:

- System integration and operational planning of variable renewable energies, forecasting, and capacity management strategies.
- Power system design and the challenges and solutions of sector coupling across electricity, heating/cooling, and transport.
- Pathways to decarbonisation, including regulatory frameworks and the impact of policy incentives.
- Battery energy storage systems (BESS) for grid ancillary services, sizing, business case assessment, as well as their sizing, business case assessment, and use in renewables driven flexibility.
- Power-to-X applications, technology comparison for sector coupling, and market trends in electrification.
- Artificial intelligence (AI) for energy system optimisation, forecasting, flexibility markets, and smart sector coupling.
- Sustainable urban cooling, district system design, technology selection, and life-cycle/cost–benefit analysis.
- Finance mechanisms and risk management for green hydrogen projects, stakeholder strategies, ESG, and due diligence.

### CONTENT IN BRIEF

System integration  
 Operational planning  
 Power system design  
 Pathways to decarbonisation  
 Regulatory frameworks / policy incentives  
 Battery Energy Storage Systems (BESS)  
 RE Power-to-X applications  
 Artificial intelligence (AI)  
 Sustainable urban cooling  
 Financial due diligence  
 Risk management of green hydrogen projects



## LEARNING OBJECTIVES

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### Key learning outcomes equipping participants to:

- Explain the purpose, operational management, and forecasting of variable renewable energies.
- Describe power system operation, balancing, grid congestion management, and capacity planning techniques.
- Discuss the integration of energy storage and demand side management for renewables, including grid code requirements.
- Evaluate sector coupling approaches and regulatory frameworks for decarbonisation.
- Compare sector coupling technologies for heating, cooling, and transport; analyse cost trends and policy impact.
- Size BESS systems for ancillary services and assess business cases based on technical and market requirements.
- Explain foundational AI concepts, energy forecasting, grid balancing, demand-side flexibility, and sector-specific applications.
- Differentiate passive, hybrid as well as active cooling approaches and extract lessons from international urban cooling showcases.
- Identify financing instruments, risk mitigation strategies, and market development for green hydrogen projects.
- Analyse financial due diligence, risk management, and ESG integration for investment decisions in green hydrogen.

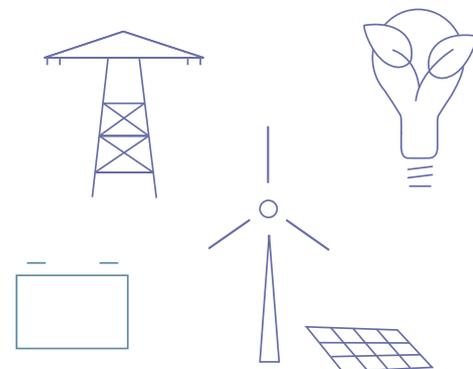


# PROGRAMME STRUCTURE

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## THEMATIC COURSES

- 1 Pathways to decarbonisation
- 2 System integration of VRE
- 3 Battery Energy Storage Systems
- 4 Renewable Power-to-X applications
- 5 Sustainable cooling solutions for urban areas
- 6 Artificial Intelligence in RE sector coupling projects
- 7 Financing mechanisms for green hydrogen projects
- 8 Financial due diligence and risk management of green hydrogen projects



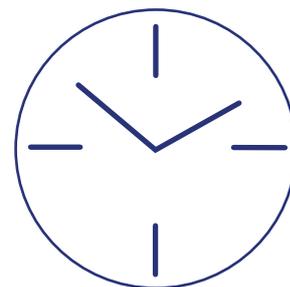
## ADDITIONAL COURSES

Three additional courses will be developed at a later stage by the **MENALINKS** programme and made accessible to scholarship holders.



# SCHEDULE

1	<p><b>WEEK 1 - 2</b> 16 - 29 April Log-in, intro Topic: Pathways</p>	2	<p><b>WEEK 3 - 5</b> 30 April -20 May Topic: System integration of VRE</p>
3	<p><b>WEEK 6 - 7</b> 21 Mai - 3 June Topic: BESS</p>	4	<p><b>WEEK 8 - 9</b> 04 - 17 June Topic: Power-to X</p>
5	<p><b>WEEK 10 - 11</b> 18 June - 01 July Topic: Cooling</p>	6	<p><b>WEEK 12 - 13</b> 02 - 15 July Topic: Artificial Intelligence</p>
7	<p><b>WEEK 14 - 15</b> 16 - 29 July Topic: Financing green hydrogen</p>	8	<p><b>WEEK 16 - 17</b> 30 July - 12 August Topic: Risk management GH2</p>
9	<p><b>WEEK 18 - 21</b> 13 Aug - 03 Sept. Topic: Preparation for exam</p>	10	<p><b>WEEK 22 - 24</b> 04 - 24 September Topic: Exam, re-exam, certificates</p>



## NOTE

Dates for assignments and live virtual classroom sessions will be added upon training start.

Assignments are part of the final grade. Attending the virtual classroom sessions is not mandatory, but encouraged.



## REQUIREMENTS FOR PARTICIPATION

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This eLearning programme is offered through the online learning platform of [Renewables Academy \(RENAC\) AG](#), as part of the [MENALINKS](#) programme. RENAC's programmes and courses support professionals in achieving their career goals in the renewable energy sector. In doing so, it also meets the needs of the industry by providing education and training for professionals and experts that will lead to further expansion of renewables deployment and the advancement of sector coupling solutions, supporting decarbonisation strategies and efforts.

### Application and scholarship criteria

Participation in this fully funded programme is supported by [IKI \(International Climate Initiative\)](#). RENAC offers [75 scholarships](#) in total to participants from the five [MENALINKS](#) partner countries. Individuals who wish to participate in the training programme must submit a completed application form, available on the [RENAC website](#).

### Criteria for the selection of participants are:

- Working in an eligible country: [Egypt](#), [Jordan](#), [Morocco](#), [Tunisia](#), [Türkiye](#)
- Proven professional experience of [5 years or more](#) in the energy sector
- English language skills [level B2](#)
- No enrolled students or staff of higher education institutions
- Quality of the application (particularly information on job responsibilities and intention to apply knowledge)

The programme takes into account a balanced gender selection of participants. We strongly encourage women to apply and strengthen women's participation in the sector!

START

**16 APRIL 2026**

DEADLINE FOR  
APPLICATIONS

**15 MARCH 2026**



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## WORKLOAD, CERTIFICATES AND EXAMS

### Waiting list for scholarship training places

If the number of eligible applicants exceeds the number of available scholarship places, RENAC will place eligible applicants on a waiting list.

### Language

The programme language is English. All learning material is available in English.

### Final examination and certificate

Participants complete the programme by taking an online examination. Successful participants who score at least 70% in the final exam receive a RENAC training certificate that they can use for their professional career.

### Workload for participants

Depending on prior knowledge, participants should expect to spend about **130 hours** to successfully complete the programme. This includes: Reading / watching and understanding the material, answering self-test questions, participating in live virtual classrooms, and joining the discussion forum on the eLearning platform. It also includes submitting assignments, and taking the online exam.

#### IN BRIEF

Study time: 130 hours

Duration: 5 months

Format: Online

Language: English

Start: **16 April 2026**

Fee: Zero fee scholarship

Application necessary



## RENAC E-LEARNING TRAINING

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### All features

- The RE-PtX programme combines **self-paced learning** with live online elements.
- **Course materials** and resources are available anytime, giving participants control over when and how often they engage with the content.
- **Interactive quizzes** and assignments are built into the courses to reinforce understanding.
- **Discussion forums** and **messaging tools** allow to ask questions, share ideas, and collaborate independently of specific meeting times.
- **Digital tracking features** help participants monitor their progress, and revisit material for deeper understanding.
- **Resources are accessible from anywhere**. All the content can be downloaded in PDF to learn offline.

### Advantages

- **Maximum schedule flexibility:** Participants set their own pace and choose study times that fit around work or personal commitments - a major benefit for women juggling multiple responsibilities.
- **Personalised, self-directed learning:** Learners can spend extra time reviewing challenging topics or skip ahead as needed.
- **Inclusive accessibility:** Anyone can join from anywhere to access the same high-quality learning.
- **Consistent quality:** All participants receive the same high-standard instructional materials and digital resource.

### FEATURES IN BRIEF

Self-paced online learning

High-quality training

Complete learning flexibility

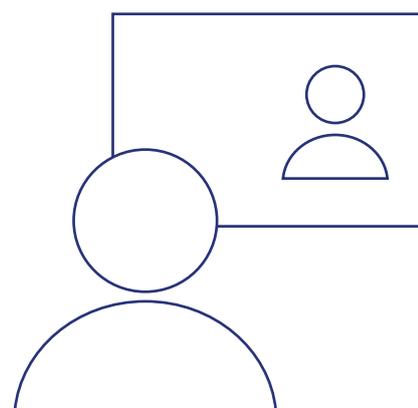
Course materials can be downloaded

Course material are brochures, teaching videos, assignments

Interactive quizzes and assignments

Discussion forums and messaging tools

Digital tracking features



## CONTACT

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For all training programme inquiries:

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the German Bundestag

The MENALINKS programme is led by Guidehouse Germany GmbH. This project is supported by the International Climate Initiative (IKI) of the Federal Government of Germany. Within the Federal Government, the IKI is anchored in the Federal Ministry for the Environment, Climate Action, Nature Conservation and Nuclear Safety (BMUKN). Selected individual projects are also the responsibility of the Federal Foreign Office (AA).

# ANNEX

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## Overview of overall learning objectives

### Pathways to decarbonisation – Power system design for RE coupling

- Explain how sector coupling and renewable energy integration support long-term decarbonisation of power, heating/cooling, transport, and industry.
- Assess technical, economic, and emissions impacts of different sector coupling strategies under MENA-specific framework conditions.
- Evaluate regulatory and market design options that enable efficient, low-carbon power system development.

### System integration of Variable Renewable Energy (VRE)

- Describe how large shares of wind and solar affect system operation, residual load, and balancing needs.
- Apply concepts of forecasting, scheduling, congestion management, and ancillary services to integrate VRE reliably.
- Assess roles of storage, demand-side flexibility, grid codes, and capacity planning in securing system adequacy with high VRE.

### Battery Energy Storage Systems (BESS) for grid ancillary services

- Explain technical configurations, sizing approaches, and operating principles of utility-scale BESS for ancillary services.
- Evaluate functional and non-functional requirements, standards, and simulation methods for designing BESS projects.
- Assess business cases, cost structures, and revenue models for BESS in different ancillary service markets.

### Power-to-X (PtX) applications and cost development

- Compare direct electrification and Power-to-X options for transport, heating/cooling, and industry, including efficiency and cost drivers.
- Describe key technologies for hydrogen and synthetic fuels, including production pathways, supply chains, and market prospects.
- Assess decarbonisation potential and future cost trends of PtX applications such as green steel and renewable methanol.

# ANNEX

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## Artificial Intelligence (AI) for renewable energy and sector coupling

- Explain core AI, machine learning, and deep learning concepts and their relevance for energy systems.
- Identify AI use cases across RE forecasting, grid operation, flexibility markets, sector coupling, and virtual power plants.
- Assess how AI-based control, optimisation, and analytics can reduce emissions and enhance system efficiency.

## Sustainable cooling solutions for urban areas

- Describe drivers of urban cooling demand, environmental and health impacts, and principles of sustainable cooling.
- Compare centralised district cooling, passive and active technologies, thermal storage, and refrigerant choices from technical and economic perspectives.
- Evaluate policy, regulatory, and financial models that support large-scale, low-carbon urban cooling in the MENA region.

## Financing mechanisms for green hydrogen projects

- Explain investment needs, cost of capital, and main financing barriers for green hydrogen projects.
- Distinguish key instruments such as blended finance, guarantees, insurance, green bonds, hubs, auctions, and contracts for difference.
- Assess how public support schemes and innovative market designs improve bankability and close the green hydrogen investment gap.

## Financial due diligence and risk management of green hydrogen projects

- Identify major technical, market, regulatory, ESG, and macroeconomic risks along the green hydrogen project lifecycle.
- Apply financial due diligence tools, valuation methods, sensitivity and scenario analysis to evaluate project viability.
- Design risk allocation, mitigation, and governance strategies that align stakeholder expectations and improve bankability of green hydrogen investments.

