

CapREG - Capacity Development on Renewable Energy and Grid Integration

Objectives, partner countries, seminars, costs and schedule

Albrecht Tiedemann (RENAC)

- About Renewables Academy (RENAC) AG
- Information about CapREG
- Target groups and partner countries
- Project specific objectives
- Marketing and definition of training needs
- Seminars in partner countries and in Berlin
- Web-based trainings
- Mobile exhibition
- Time schedule
- Costs and fees
- Contact information

AGENDA

RENAC is....

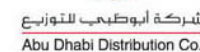
- a Berlin-based training specialist for Renewable Energy and Energy Efficiency
- Private sector company with 22 employees
- Until now we operate with participants from over 110 countries
- We offer Renewable Energy (RE) and Energy Efficiency (EE)
 - Short-term trainings
 - Academic education
- We support third parties to build up own capacities for EE and RE training (Capacity Building Services)



RENAC – training activities in Berlin and worldwide



RENAC – selection of references



RENAC – trainings, education programs and services

Training Courses

- Open Training
- Tailor-made T.
- Online Training



Master's Degrees

- MBA Renewables
- GPE Solar



Capacity Building Services

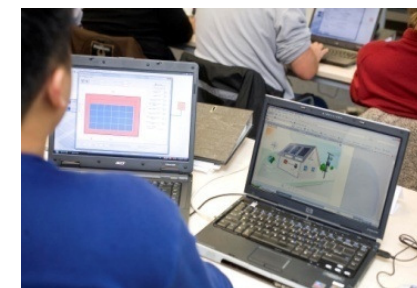
- Development of Curricula
- Turnkey Training Centers
- Train-the-Trainer Programs
- Capacity Assessment
- Quality Assurance

Consulting

- Advisory Services
- Delegation Programs
- Conference Programs

CapREG – Capacity Development on Renewable Energy and Grid Integration

- CapREG is a seminar scholarship program
- Financed by the German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) with funds from the International Climate Initiative (IKI)
- Scholarships offered to countries:
 - Mexico, Ecuador, Peru
 - Philippines, Indonesia, Vietnam and Thailand
- Seminar activities:
 - Face-to-face trainings in both partner countries and Berlin
 - Web-based training (online seminars)
- Training topics: technologies, political frameworks, financing conditions, grid integration of renewables, project tendering and evaluation



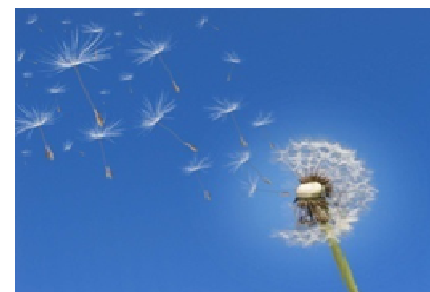
CapREG – target groups for seminars

- The target groups are professionals working in Mexico, Ecuador, Peru, Thailand, Philippines, Indonesia and Vietnam in
 - ministries with responsibilities for energy supply / power networks
 - Ministries recognising the importance of climate protection / policy and / or with responsibility for energy policy
 - subordinate authorities and regulators, regional or local administration
 - energy generators, transmission and distribution system operators
 - financial sector
 - industry, trade associations, NGOs and
 - media.



CapREG – project specific objectives

- Offer know-how through capacity building, exchange of experiences and networking
- Assisting partner countries in increasing the use of renewable energy technologies
- Creating suitable frameworks for the development of renewable energy at federal and local level
- Overcome obstacles about the grid integration of renewable energy
- Building up new working sectors to strengthen the economy and the employment
- Reduce greenhouse gas emissions
- Contribute to energy security / diversity
- Encourage the financing sector to finance renewables



CapREG – seminar activities overview

- Identification of training needs and topics
- Marketing activities and public relations
- Communication with seminar specific target groups
- Application and selection process
- Web-based trainings and blended learning
- 3-day and 5-day trainings in partner countries
- 5-days trainings in Berlin (attended by participants from different countries)



CapREG – possible seminar topics

- Wind energy, photovoltaics, bioenergy, hydropower, concentrated solar power (CSP), solar thermal
- Application of and yield forecasts for various technologies
- Issues of grid integration of large amount of grid connected wind and solar
- Stand-alone and hybrid systems
- Costs, profitability, cash flow analysis, risk analysis, due diligence, financing
- Environment, legal aspects, support mechanisms, inclusion of social and environmental aspects
- Tender, approval process, power projects agreements, project contracts
- Qualification requirements, development of capacity building structures



- Marketing in English and Spanish (RENAC website, mailings, printed flyer, information for press)
- Definition of training needs
 - Interviews and meetings in partner countries:

→ Travel to MEX-ECU-PER



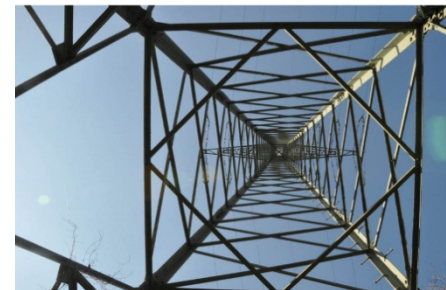
→ Travel to THA-PHL-IDN-VNM



- Receptions with German institutions (GIZ, KfW, AHK, embassy) on site to inform about the project and to assist with the marketing
- Evaluation of information and definition of training needs

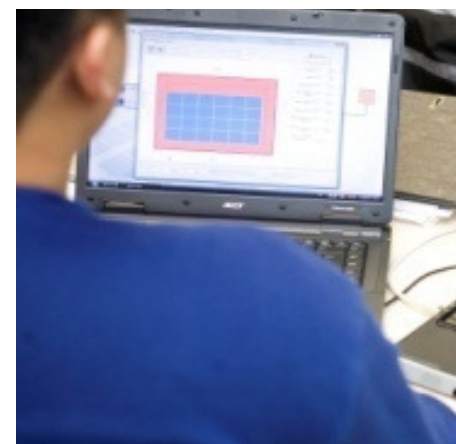
CapREG – definition of training needs

- Major questions:
 - What are the main policy issues and obstacles regarding the development of renewables in the partner countries?
 - Which institutions are responsible and who is involved?
 - Which learning objectives could support the national development of renewables?
 - Which specific target groups should have priority for the CapREG-trainings?
- RENAC will evaluate the answers and propose a seminar plan for each partner country
 - 3 x three-day seminars
 - 1 x five-day seminars
 - Web-based trainings
- Agreement on objectives and content of seminars (face-to-face and web-based trainings)



CapREG – web-based trainings (online seminars)

- Participants are invited to
 - apply online for the scholarships (application link is not active up to now)
 - attend the trainings and pass the tests
 - exchange findings with other students
- RENAC's tasks are to
 - develop curricula and teaching material for 9 online seminars in English and Spanish (text, videos, animations, questions for self testing)
 - select and invite participants
 - organise web based-trainings, virtual classrooms and a forum
 - support online-students
 - organise a final test and distribute certificates



CapREG – mobile exhibition on grid integration of wind and solar in English and in Spanish

- The mobile exhibition on grid integration of renewables will consist of 15 information boards (85cm x 220cm) / A0-posters
- Each board will be available in English and in Spanish
- One copy of the exhibition will be printed for each partner country
- Interested institutions willing to host the exhibition in the partner countries will be responsible
 - for choosing suitable events to show the exhibition
 - for organising guided tours through the exhibition
 - (partner institutions will own the exhibition after the end of the project)

Plan of the panels

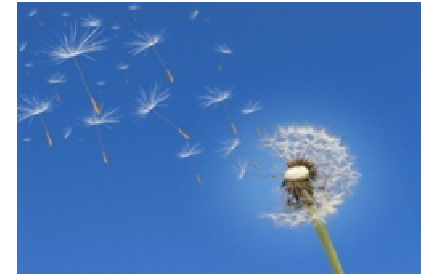


CapREG – time schedule

	2014		2015	2016
Capacity needs assessment				
7 x five-day seminars (in partner countries, English, each with 15 participants)		2	5	
21 x three-day seminars (in partner countries, English, each with 15 participants)		7	7	7
7 x five-day seminars (in Berlin, English, each with 12 part. from different countries)			3	4
9 web-based trainings (English/Spanish, 270 days, in total up to 525 participants)				
Mobile exhibition (15 boards for each partner country, English or Spanish)				
Information and marketing				

CapREG – costs and fees

- CapREG is a scholarship program that provides
 - free participation in a face-to-face and online trainings
 - materials, lunch, tea & coffee, field trips during seminars
 - travel health insurance if travelling to Berlin
 - letter of invitation for travel visa
- Costs covered by participants:
 - participants are responsible for booking and paying hotel and flights
 - costs for hotel and flight ticket for seminars in Berlin are shared
 - RENAC will reward 60% of an economy flight to/from Berlin (max. 660€ for IDN-PHL-VNM-THA and max. 780€ for MEX-PER-ECU) and 60% of hotel costs in Berlin (max. 45€/ night and up to 7 nights).
 - Participants will cover at least 40% of hotel and ticket costs.
 - breakfast, dinner, personal activities, visa fees and other expenditures
- Participants are responsible for their visa application procedure



- Since 2009: Director and Lecturer at Renewables Academy (RENAC) AG; topics are training programs on grid integration of renewable energy and on wind energy
- 2003 – 2009: Project Manager at the German Energy Agency; topics were grid integration of renewable energy and wind energy
- 1989 – 2003: Scientific Assistant at the German Federal Environmental Agency; topics were offshore wind energy, offshore gas/oil exploration and pulp and paper industry
- 1989: Technical University Berlin; Engineer in Environmental Protection Technology



CapREG – contact information

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Thank you!