Building Capacity in Your Country

Skills for the Clean Energy Transition

Climate Compatible Growth

COP31

Global Research and Technology Development
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One of the barriers to achieving a clean energy transition in the Global South is when policy and planning teams in government do not have the knowledge or skills they need to analyse data and produce scenarios using energy modelling tools. Often external consultants may have been used to provide this analysis but that fails to create a legacy of embedded knowledge within the country.

At CCG we overcome this barrier by providing free training and support to these planning teams and we call this 'capacity-building'. Our capacity-building services are designed to gradually build and sustain levels of competence in energy modelling, allowing practitioners to confidently apply the tools in their professional roles. Using a variety of approaches, CCG trains policymakers, advisors and academics, catering for both mid-career professionals and graduate students.

The diagram below shows how professionals can progress through the different stages of CCG's capacity-building offer, with appropriate support at each stage. The fundamental ethos of CCG is that the countries we support should become independent of external support in time. We train participants in each country so that they can, in turn, become trainers for their colleagues. This ensures that the knowledge becomes embedded in the country.

CAPACITY-BUILDING OFFER

Countries can use any of the following capacity-building modalities:

CCG Bootcamps

A programme enabling energy professionals in country to acquire energy transition modelling skills and apply them to produce a plan or strategy with coaching support

preparatory training | *intensive training* | *follow-up training* | *sustained capacity*

OpenLearn Collection

A suite of free self-administered Open University online training courses available for anybody to gain basic level certification in energy transition modelling

Energy Modelling Platform

A programme of annual regional in-person training events for mid-career professionals to develop mid-level certification in energy transition modelling

Energy Modelling Community

A programme of ongoing professional enrichment to continue to support alumni to improve energy transition modelling skills and apply them in their work

EMP-X

A programme for trained individuals to organize their own in-country trainings utilising energy modelling tools

select training materials | *train the trainers* | *ongoing support* | *elevation pathway*

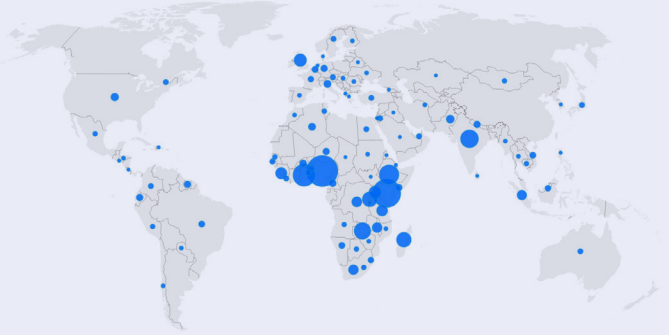
FlatPack Programme

A programme supporting enrichment of university curricula by providing off-the-shelf teaching material for energy transition BSc and MSc students

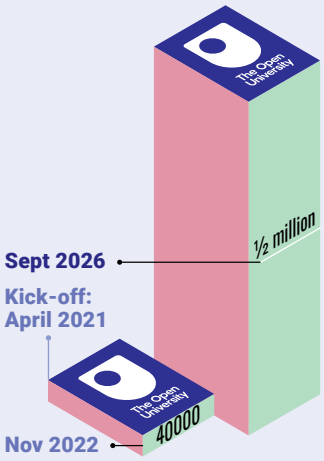
CCG's Capacity-Building Offer

OpenLearn Collection (OLC): Currently, more than 25 self-administered open-access courses are on offer in English on all aspects of energy planning and finance. Of these, five courses have also been translated into Spanish, French, and Portuguese. Courses have been downloaded more than half a million times, and more than 5,000 certifications have been awarded. Participants come from all over the world, with a particularly strong concentration in Africa.

Students completing OLC courses are heavily concentrated in Africa



Uptake of OLC material has increased exponentially since 2022

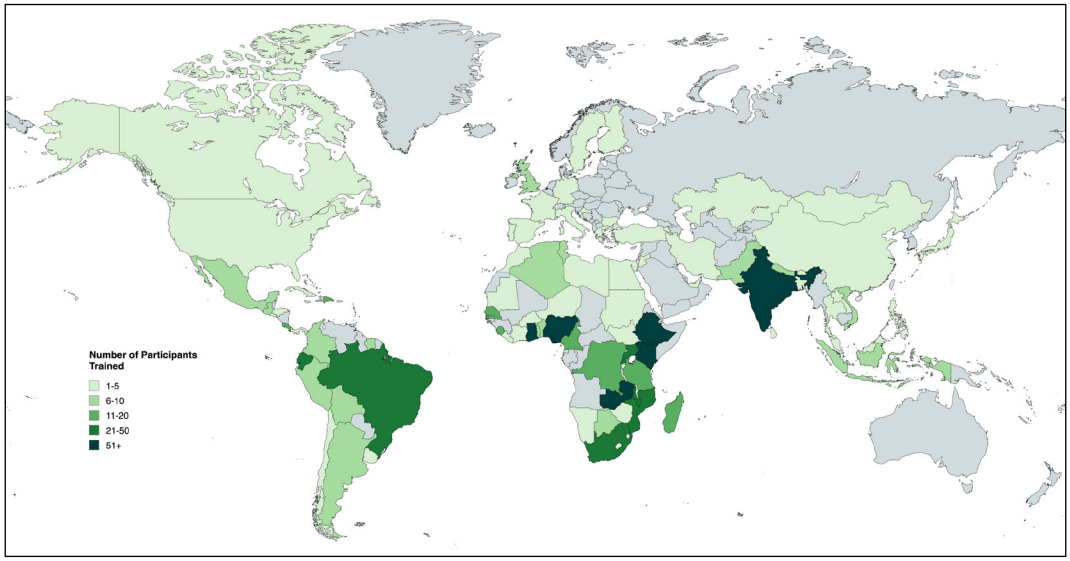


Total number of courses downloaded to date:

½ million

Energy Modelling Platforms (EMP): An EMP is a three-week-long training event, aimed at equipping participants with hands on competence in applying energy modelling tools to shed light on real policy questions. Participants can choose from a range of different tools spanning all aspects of energy planning and finance mobilisation. To date, over a dozen EMP events have been held around the world, training more than 1000 individuals. The EMP events are heavily supported by international organisations and universities. Instructors at EMP events are increasingly alumni that have undergone a trainer certification process.

Participation in EMP has been strong across the Global South



CCG's Capacity-Building Offer

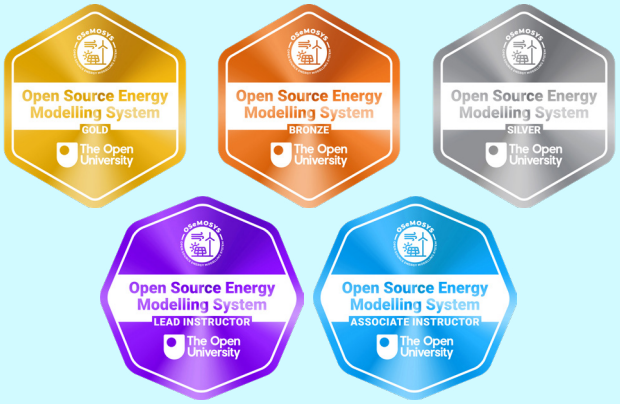
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The Energy Modelling Community (EMC): The EMC provides ongoing support for alumni of the EMP events. This support includes office hours, webinars, training and clinic sessions, a newsletter, mini-sabbaticals and mentorship. The EMC is organised in several sub-communities by modelling interest and country location.

Proficiency Badges: These are digital micro-accreditations issued by the Open University and supported by a rigorous quality control process. They allow professionals to demonstrate progression in energy modelling skills from foundational training to teaching and are an important part of the process of certifying trainees to become future trainers. Some 150 badges have so far been awarded.



EMP-X: Through the EMP-X programme, CCG supports EMP alumni to go back to their home countries and organise their own national Energy Modelling Platform training events. This ensures that training reaches a much wider national audience, reduces the costs of delivery, and creates a sustainable national process for skills development. EMP-X events are already happening regularly in countries like India, Nigeria and Ethiopia.

CCG Bootcamps: Many of those undertaking training with CCG do so increasingly through longer-term collaboration arrangements known as Bootcamps. For teams of researchers or policymakers who have completed their training, these offer coaching support which is orientated towards supporting the delivery of a major analytical piece of work. This could be a government plan or strategy, an academic research paper, or development of a teaching curriculum.



The FlatPack programme: This supports academics from universities in the Global South, who have attended CCG or related training, to incorporate energy modelling tools into their curriculum. CCG supports this process by providing further training to academics to reach instructor level competence, making available ready-made teaching materials, and supporting the process of integration and adoption. To date, more than 40 universities in the Global South are participating in this initiative.

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From online learner to Research Fellow and Policy Advisor to Ugandan Government

Benard Musekese Wabukala PhD: Lecturer at Makerere University Business School for 23 years, Postdoctoral Fellow Norwegian University of Life Sciences for 2 years, Research Fellow AISESA for 8 months Benard attended the very first CCG EMP online during COVID in 2021. He persuaded his faculty to embed OSeMOSYS into the University curriculum:

"I had seen what OSeMOSYS could do. I wasn't very confident then, but I was buzzing with the excitement of what I'd gone through, so I said that I would teach it and I started in 2022. Our students got free access to all the resources because the OpTIMUS community made it open access."

"I have used OSeMOSYS for policy engagement. I used the results we obtained from the training where we had simulated how Uganda's energy mix could contribute to the green growth strategy and presented them to the Ministry. Some of the findings were chosen to become part of the Strategy. I am part of the local team that is undertaking assessments to inform the update of Uganda's Nationally Determined Contributions (NDC) and we are using CLEWs!"

Find out more about CCG's capacity building and energy modelling activities by scanning this QR code

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