

# UNEP DTU Partnership



## The special setup of UDP

- 65 economists and scientists from approx. 20 different nations
- Integral part of DTU MAN with access to a broad range of energy scientists and specialists at DTU
- A wide network of collaborating institutions, NGO's and partners in more than 50 developing countries
- A non profit public institution with highest standards on procedures, transparency and accounting



# The Partnership consists of two Centres



## Cleaner Energy Development

- Facilitating cleaner energy technology transfer
- Improve access to cleaner and efficient energy technologies
- Analytical support for overcoming political and institutional barriers

## Low Carbon Development

- Piloting new approaches within low carbon planning – LCDS, NAMAs
- Enhancing a more equitable regional CDM project distribution
- Facilitating a more efficient carbon market

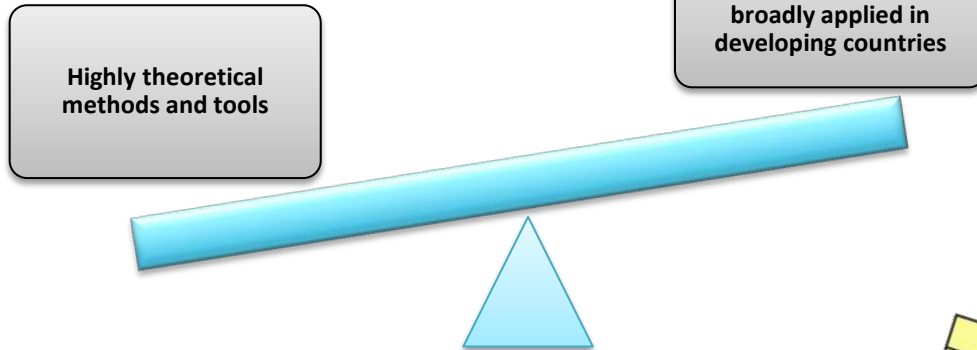
## Climate Resilient Development

- New approaches for assessing cc vulnerability and adaptation
- Capacity building for integrating adaptation in policies and planning.
- Expanding understanding of cc impacts and response options

## C2E2 - SE4ALL Energy Efficiency Hub

- Supports the SE4ALL initiative launched by the United Nations Secretary-General in 2011, and has three ambitious interlinked objectives to be achieved by 2030; Universal access to modern energy ; Double the global rate of improvement in energy efficiency; Double the share of renewable energy
- C2E2 is a one-stop shop for information, expertise and collaboration opportunities for Energy Efficiency (EE) stakeholders.
- C2E2 produces and publishes analytical products on EE
- C2E2 facilitates enhanced international collaboration on EE
- C2E2 helps countries acquire the knowledge and capacity to promote inclusion of EE in their national energy plans.
- C2E2 provides direct technical assistance to countries.

# Applied Science, Methods and Tools



$$\min_{\lambda_0} \left\{ \sum_k \left[ u_k^v \cdot \sum_{e=1}^{N_e} \sum_{t=1}^{T_e} \hat{\alpha}_t^v K_{ev} \right. \right. \\ \left. \left. + \frac{(V_t^e - \hat{\beta}_t^e - \sum_{d \neq e} K_{ed} \cdot \hat{m}_d \hat{\alpha}_t^d)^2}{d_k^v + \lambda_0^2} \right] - 1 \right\}$$

CD/CDM Working Paper Series  
WORKING PAPER NO. 7  
1-2010

CD/CDM

Guidelines to Financing CDM Projects

Electricity sector crediting mechanism based on a power plant emission standard.

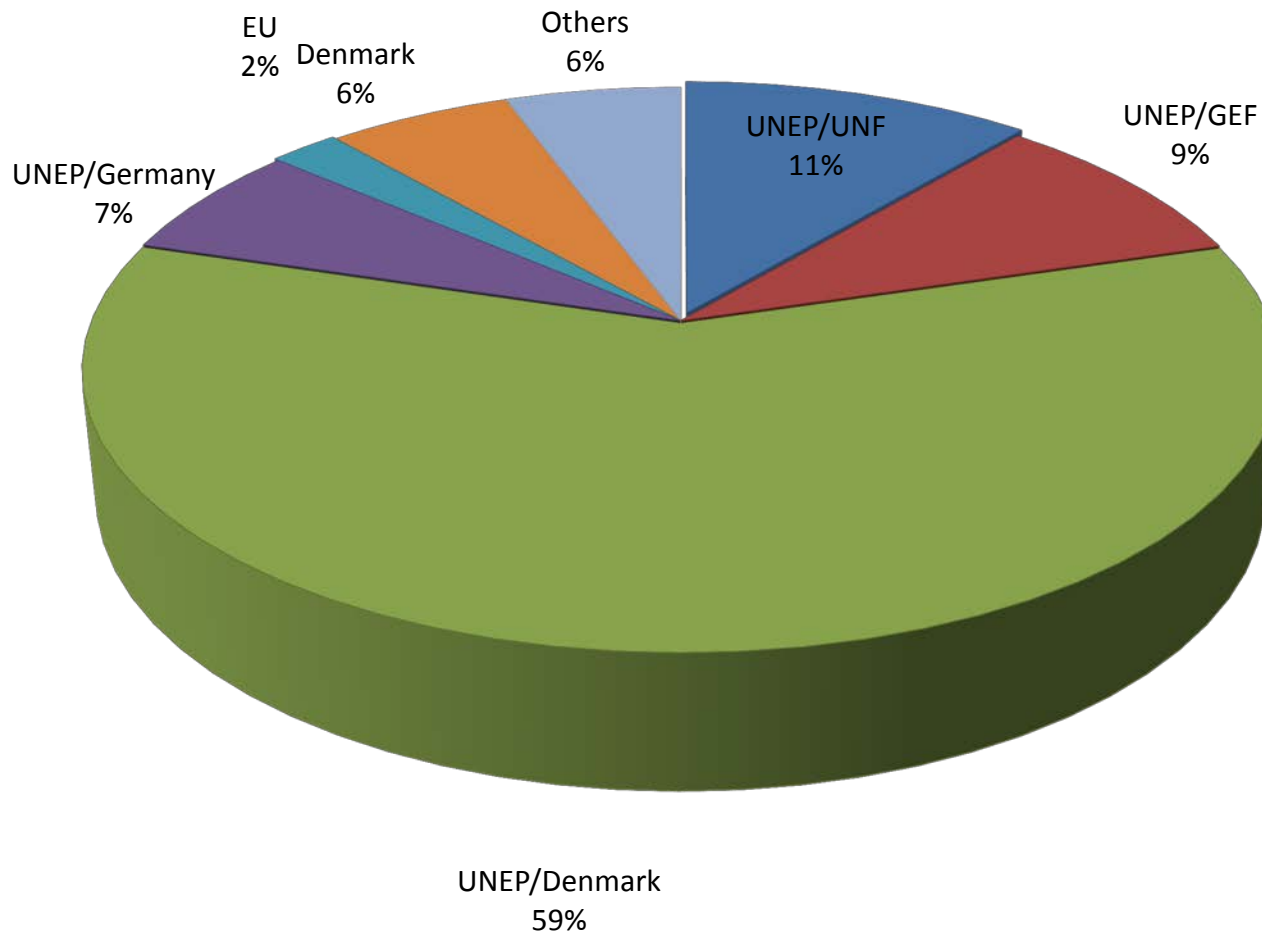
A clear signal to power generation companies and utilities planning new power plants in developing countries post-2012

Wathanyu Aruntyakul  
Chulalongkorn University of Technology  
in Thailand, UNEP Risk Centre, Technical University of Denmark

UNEP RISK CENTRE

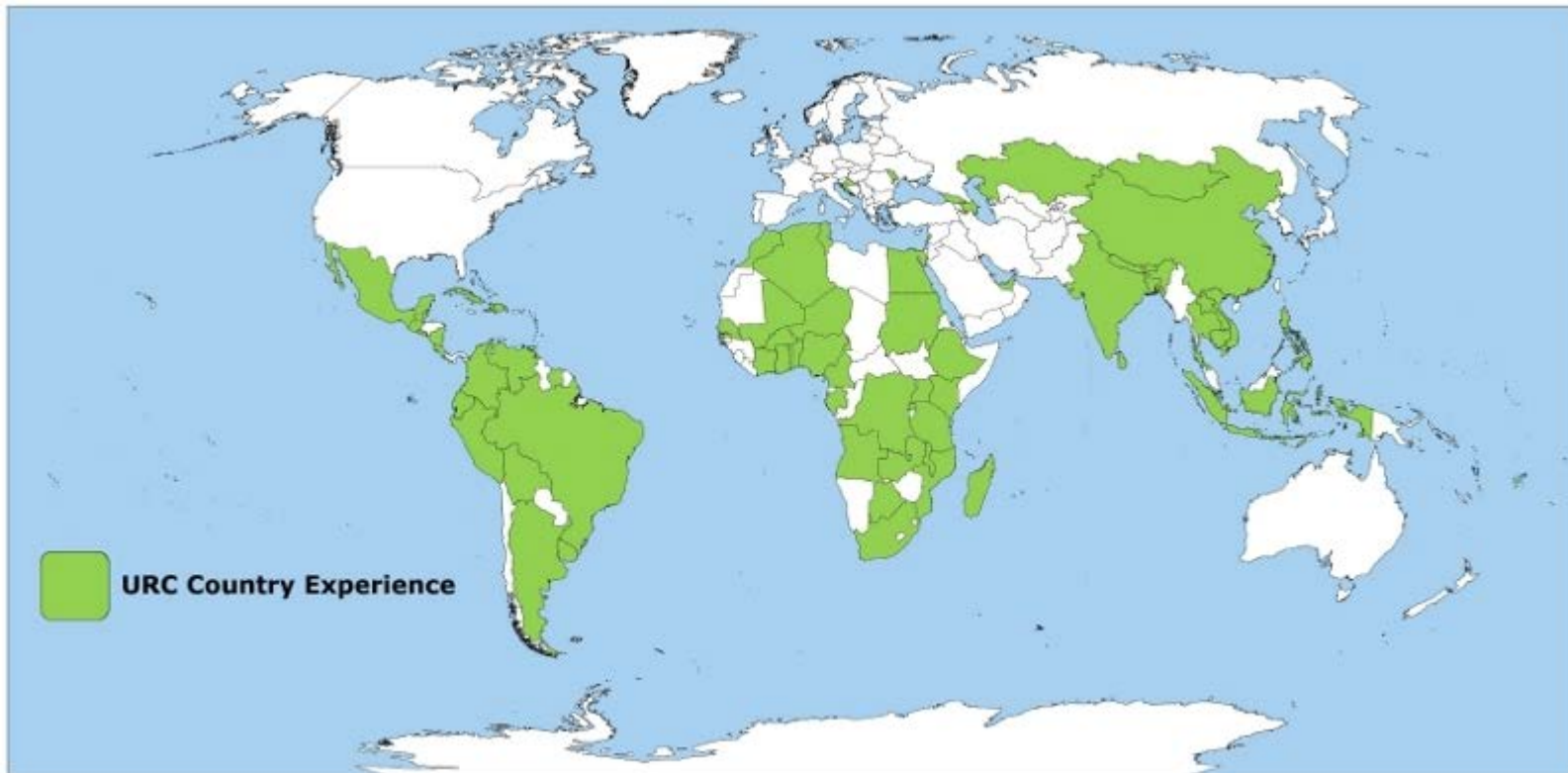
Objective	W1	W2	W3	W4	W5
Reducing flood damage					
Reducing extension of flooded area	x3				
Gaining land for agricultural cultivation	x2	5			
Maintaining groundwater level	x1	3			
Securing livelihood of fishery communities	x1	-3	-2		-2
Preserving biodiversity etc.	x2	-4	-3		0
		-3	-2		2
					-1

# Major Donors and Turnover



Annual turnover for 2014  
= 8,3 million USD

# Country Experiences





# Key activities 2014

- Preparation of new TNA project engaging with 25 countries
- Technical assistance to CTCN in operational phase
- Continuation of NAMA support in 7 countries plus analytical work with Mexico and RSA
- Expansion of NAMA work on e.g. buildings (SE Asia), lighting (Peru), transport (India) plus EE Hub NAMA work
- Finance readiness – adaptation and mitigation
  - Multi-agency BMU/ICI program
  - Danish private sector focused program
- UNEP GAP reports
- EE Hub
  - establishing medium term work program
  - collaboration with GFT and Hubs
  - partnership with e.g. IEA, IPEEC and others
  - delivering first results

# Key activities 2015

- Implementation of new TNA project engaging with 25 countries
- Technical assistance to CTCN in selected countries (Columbia, Bhutan ++)
- Support to INDC preparations in around 30 countries
- Finalization of NAMA plus INDC support in 7 countries plus analytical work with Mexico and RSA
- Expansion of NAMA work on e.g. buildings (SE Asia), lighting (Peru), transport (India) plus EE Hub NAMA work
- Finance readiness – adaptation and mitigation
  - Implementation of first ADMIRE support activities
  - TA to UNEP – German readiness program
- UNEP GAP reports
- Establishment of new program on standardized domestic MRV approaches
- TA Support to Mexico – Danish mitigation collaboration (COWI)
- UNEP COP support

## Synergies between UDP, MAN Research Divisions and other DTU departments

- What kind of activity
  - research collaboration
  - Education – interest in high quality students
  - Industrial promotion and support
  - Research based advisory services
    - TA or analytical inputs to international organisations on consultancy basis
- Need to examine the interest and opportunities for extended collaboration based on UDP platform.
  - Strategic collaboration on Energy Efficiency and/or adaptation (GAP driven)
  - Project collaboration on externally financed research projects
  - Ph.D. supervision & possibly MSc. thesis