Global Alliance for Buildings and Construction

Towards Sustainable Buildings in Hot Climates

ADEME
Agence de l'Environnement et de la Maîtrise de l'Energie

Dominique CAMPANA
Director of International Affairs

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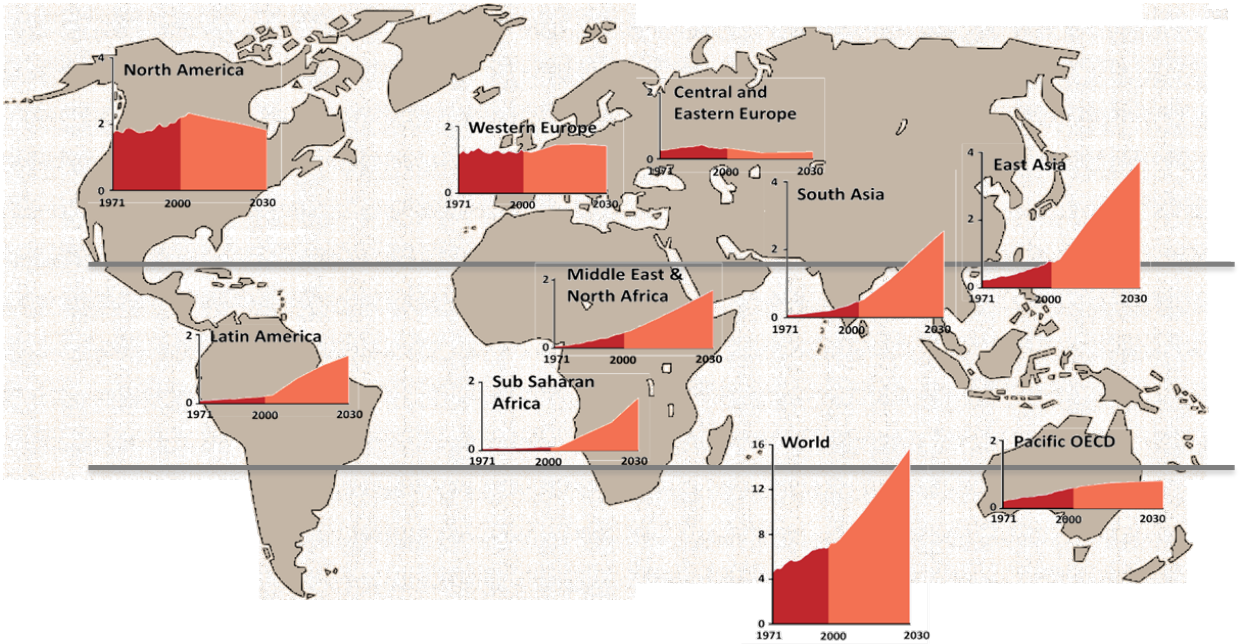
Buildings and Climate change



CO_2 emission scenarios for the building sector up to 2030, (source: Levine et al)

Buildings and construction account for **30% of global CO_2 emissions**

Hot climate countries (tropical, arid, Mediterranean…) facing **common challenges linked with high temperatures / cooling needs**

Need to develop/share best practices for **deploying energy efficient, cost-effective and comfortable buildings** while answering climate change challenges

Objectives of the Initiative

- **Expertise** – sharing best practices and know-how between member countries and experts
- **Training** - Support national and regional new construction programmes to strengthen skills of decision makers and professionals
- **Finance** - Collaborate with funding agencies to raise their awareness and support project preparation and funding
- **Special focus on :** construction of new buildings / bioclimatic buildings / housing sector

Implementation team

France is coordinating the programme in the first phase in cooperation with the members of the initiative

At regional level, involvement of regional centres for implementation action:

- ECOWAS Centre for Renewable Energy & Energy Efficiency (ECREEE) in West Africa
- Asian Institute of Technology (AIT) in Asia

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Examples of achievements and best practices

- In Asia : Experts from India, La Réunion Island (France), Sri Lanka, Thailand and Vietnam:
  - Development of an online collaborative platform to facilitate exchange of experience and good practices regarding sustainable housing in hot climates
  - More than 40 exemplary buildings already identified and showcased
- In Africa : ECREEE leads an ECOWAS Initiative for Energy Efficiency in Buildings (15 countries)
  - a Regional Directive on energy efficiency in buildings adopted in Sept. 2014
  - Aims to provide a regional framework for integrating energy efficiency in construction, Regulatory frameworks, building architecture and sustainable construction practices
  - In Senegal, priority action programmes launched in 2013 in the building and construction sector
- With IFDD, training programmes for French speaking countries on energy transition (including the building sector) in Africa since 2012-2015
- …

Actions for 2016

- April – October: Platform development and testing with Construction 21
- May - Launching of the Green Building Solutions Awards – including an “Energy and Hot Climates” Category (deadline for submissions : end of June)
- Regional seminars in Africa and Asia for the elaboration of regional and national recommendations and action plans that can be replicated in other zones and countries
  - 6-10 June: Bilateral meetings in Vietnam
  - Mid-July: Africa regional workshop
- November – COP 22 in Marrakech : Presentation of initial results and future action:
  - Launching of the platform dedicated to buildings in hot climates
  - Presentation of the regional and national action plans, along with exemplary projects already identified
  - Organization of a seminar for funding agencies and donors to increase their awareness on the positive climate impact of bioclimatic buildings, and seek their commitment to project financing.

Countries and organizations involved:

France - ADEME and Université de la Réunion (La Réunion)

Morocco - ADEREE

Senegal - Ministry for the Environment and Sustainable Development

Vietnam - Ministry of construction

ECOWAS Centre for Renewable Energy & Energy Efficiency (ECREEE) (the Economic Community of West African States has 15 member countries)

Mediterranean Association of the National Energy Conservation Agencies (MEDENER)

Institut de la Francophonie pour le Développement Durable (IFDD)

UN-Habitat

Asian Institute of Technology (AIT)

Platform of regional public and private sector experts (India, La Réunion, Sri Lanka, Thailand & Vietnam)

Construction 21

Future partners: Cameroon, Nigeria, Singapore, Mexico, Brazil, Voûte Nubienne...

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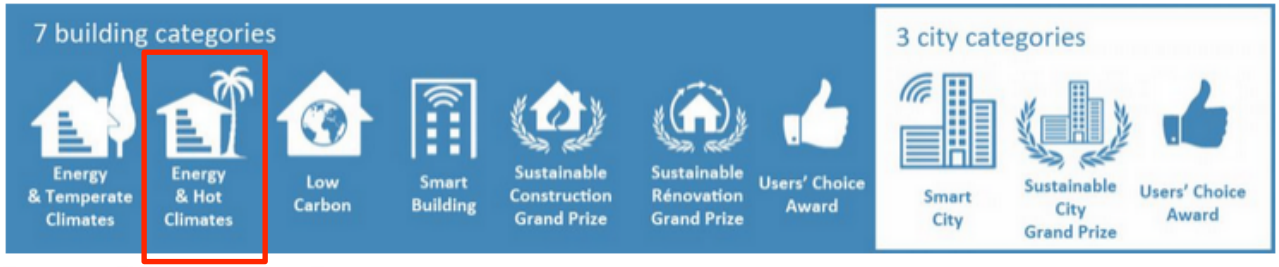
Green Building & City Solutions Awards

Promoting exemplary realizations worldwide to inspire professionals all around the world



Construction21 INTERNATIONAL

Main steps of the 2016 Awards

May 10	Launch and publication of case studies (Buildings and Cities)
June 26 July	Closing of applications Communication campaign around the candidates
September	National juries – Onlien vote (buildings only) Press conference announcing the finalists of each country
October	Communication campaign around the finalists Jury international – Vote en ligne (bâtiments + ville)
November	Awards ceremony during the COP22 in Marrakesh Communication campaign around the winners

How to participate?

1. Create your Construction21 account in a few clicks, it's free!
2. Reference one or more of your projects, make them compete in:
   Building case study
   City case study
3. Select the category or categories that match with your project (Starting May 10).
4. Detail at least one solution per project, one that demonstrates the commitment in the chosen category.

http://www.construction21.org/static/award-2016-application.html

Bioclimatic social and students housing:
Malacca Flores in La Réunion University

The world' s first bioclimatic auditorium:
Moufia Auditorium at La Réunion University