



*Global warming is one of our time's most serious threats, and it is urgent to act for our sustainable future. Buildings generally account for about 40% of the energy use and thus also corresponding addition of greenhouse gases to the atmosphere. Urban areas also trap heat and create so-called Urban Heat Islands which have adverse effects on comfort and health in tropical areas. However, the building sector has, according to IPCC, the highest potential for mitigation of global warming, but tackling these issues requires special competence.*



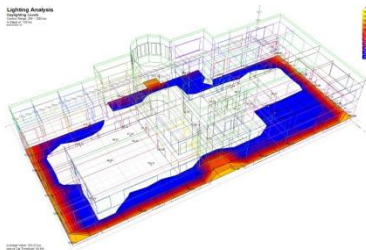
**CEC Design** represents more than 25 years international experience within the field of cost-effective sustainable building and urban design adapted to local climate, low-energy use and thermal comfort.

**CEC Design** undertakes the following services:

- Design of buildings and urban areas
- Advanced computer modeling and simulation, including thermal performance and daylighting assessment and computational fluid dynamics (CFD) analysis
- Energy performance ratings for green building certification systems (e.g. LEED and BREEAM)
- Performance audits, monitoring and evaluations
- Tailor-made research and education



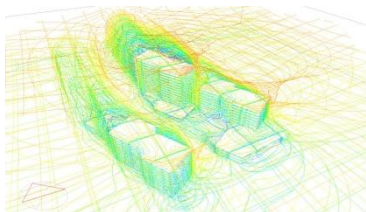
**CEC Design** was established in 2007 by Dr Hans Rosenlund, having a long record of international research and technical cooperation from Lund University, Sweden, where he held a position as associate professor at the department of Architecture & Built Environment.



During the 1980s, Dr Rosenlund was consulted by Sida (Swedish International Development Cooperation Agency) as expert advisor for the development of a township for the employees at Vinh Phu Pulp and Paper Mill in Vietnam. He monitored the planning and design work of three Vietnamese design offices, and, later, the construction of the town for about 10,000 people.



Later assignments include the management of several technical cooperation projects with authorities and NGOs in North Africa and the Middle East, i.e. measurements, computer simulations, experimental buildings, climate zoning, new thermal regulations for buildings and urban areas etc. A study in China gave recommendations for household energy savings in multi-storey houses, and Dr Rosenlund also tutored PhD theses on courtyard and urban climate in Morocco, Sri Lanka and Cuba.



Dr Rosenlund was the director of the course *Architecture, Energy & Environment* at Lund University, he has been engaged as a lecturer in several universities around the world, and he has published a number of papers and reports.



**CEC Design** was consulted for monitoring of the first sustainable residential building in Jordan, and has carried out several energy performance ratings for sustainable building certifications (LEED) in several major developments in Dubai. In Sweden, CEC Design has recently been active within the field of climate and comfort in relation to green elements in the urban environment.

