



The Coordination of Post Graduation Programs in Engineering of the Federal University of Rio de Janeiro (COPPE/UFRJ) has been involved in Climate Change researches since at least 1996 when some professors from the energy and transportation programs were included in the IPCC team to the Third Assessment Report published in 2000 and to the Fourth Assessment Report foreseen to be published in 2006. Several academic publications and MSc. and DSc. thesis have been developed involving the Climate Change issues and some of them with innovation patents being formally asked:

Energy Planning Program (www.ppe.ufrj.br) -

- a) The elaboration of the Brazilian Inventory of greenhouse gases emissions from the energy sector coordinated by the Ministry of Science and Technology;
- b) the project CentroClima (www.centroclima.org.br);
- c) several studies about methane and carbon dioxide emissions from hydroelectric power plants;
- d) the South- South- North project involving Brazil, Bangladesh, Indonesia, South Africa and Holland with the objective of implementing CDM pilot projects (<http://www.southsouthnorth.org/>)

International Virtual Institute on Global Change (www.ivig.coppe.ufrj.br) -

- IVIG has several activities linked to climate change such as
- a) the analysis of the potential of the renewable energy to the greenhouse effect mitigation and to the sustainable development;
 - b) historical contribution by country of three greenhouse gases (CO₂, CH₄, N₂O) to the climate change;
 - c) experimental tests of bio diesel including bio diesel from residues (fried oils and biogas from sewage)
 - d) experimental projects for electricity production from organic domestic waste;
 - e) construction of the buildings CETS - Center of Energy and Sustainable Technologies including coconuts and recycled paper to roofs construction;
 - f) green roofs or naturation of traditional roofs aiming at the sustainable development in the cities;
 - g) research about ethics and equity principle in the international negotiations on climate change with the publication of a book edited by Edward Elgar Ed in 2002;
 - h) IVIG is the executive representing of the Climate Change Brazilian Forum;
 - i) IVIG is the Brazilian member of Climate Change Knowledge Network (www.cckn.net) and participated in the publication of book Seeing the Light: Adapting to climate change with decentralized renewable energy in developing countries.

