

3rd International Conference on **Earth Science & Climate Change**

July 28-30, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

Sustainable complex triangular cells with application and change climate

Marcelo Sthel, José Glauco Tostes and Juliana Tavares
State University of Norte Fluminense, Brazil

The evolution of the energy use by human society is discussed, relating the energy, environmental and economic crisis, which appear to be closely linked. With the widespread use of fossil fuels since the industrial revolution, a major environmental problem was generated: the climate changes. Global environmental problems have reached worrying heights. Greenhouse gas emissions have resulted in drastic climate changes with major impacts on biodiversity, human society and the planet's biogeochemical cycles. Several important international environmental meetings have shown great concern over the high emissions of greenhouse gases. This work we display a simplified geometrical model which aims to facilitate the understanding of current environmental problems: The sustainable complex triangular cell model. At the present stage of the human society, the cell will be represented as a scalene triangle, symbolizing distorted relationships among Energy, Economy and Ecology. The extension of the concept of complex triangular cells where its area would be equivalent to the CO₂ emission per individual is proposed. In addition, a new three-dimensional geometric model for the regular hexagonal structure is offered in which the sharing of natural resources (human cooperation) is employed to reduce CO₂ emissions.

sthel@uenf.br