



## 2<sup>nd</sup> INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

"KEY ELEMENTS FOR A SUSTAINABLE WORLD: ENERGY, WATER AND CLIMATE CHANGE"

### Energetic & Environmental Framework of Biofuels Plants

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#### Abstract

This article addresses the variables of energy and environmental of Biofuels Plants, especially when licensed in the State of São Paulo, with focus on the National Planning of the Electricity Sector, the National Plan of Proálcool and Agroenergy, the Bioenergy in São Paulo State Environmental and Licensing Biofuels Plants. Under the National Energy Policy are considered the studies that prioritize the long-term vision of the sector of energy and are developed by the Ministry of Mines and Energy (MME) and National Energy Plan 2030 (PNE-2030) and the Ten Year Plan for Expansion Electric Energy (PDEE). It is then reviewed the Proálcool, program for the production of ethanol from sugar cane that the federal government sought to encourage in the 70s, the production of alcohol in place of pure gasoline, reducing imports of oil. Recently established the National Plan of Agroenergy, which presents some challenges for ethanol such as the development of technologies sparing of inputs and the elimination or mitigation of environmental impacts. The State of São Paulo, in turn, has said and also established a goal to create a Bioenergy Plan Paulista, considering not only the issues related to national and international markets for ethanol, but also the environmental aspects as management, legal reserve, emissions weather and fire, mechanized harvesting, water consumption and carbon emissions. Finally, this article discusses the administrative procedure of environmental licensing of Biofuels Plants, giving emphasis to studies and reports on environmental impact (EIA / RIMA) of such business, and stating the main environmental variables related to licensing, such as: Public Hearing ; Strategic Ethanol Project Green and Agro-Environmental Protocol; Zoning AE, Agricultural Policy, Master Plan, Soil Use and Occupancy; Impact Assessment Neighborhood, Fauna, Flora; Permanent Preservation Area (APP); Legal Reserve (Reserve Legal); harvest of the Cana - -Sugar; Conservation Units; Compensation Environmental, Water, Waste and Wastewater; Fertirrigação System - Vinhaça, noise emission, Atmospheric Emissions, Environmental Education and Heritage Paleólogos, Archaeological and Historical Monuments of Cultural Value.

*Keywords: Energy; Environmental; Licensing; Biofuels Plants.*

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