



São Paulo - Brazil - May - 20th to 22nd - 2015

4th INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

“CLEANER PRODUCTION TOWARDS A SUSTAINABLE TRANSITION”

Environmental Sustainability Indexes' assessment for Water Supplying and Sewage Treatment Companies Listed on BM&FBOVESPA in 2014

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ABSTRACT

The critic level of the water in the storages of the brazilian hydroelectrical power plants represents the breaking point of the first condition for sustainability. The total affluence volume minus the total effluence volume results in 6,418 m³ of water per second, which is unfavourable for the national system. The investors of BM&FBOVESPA acknowledge and perceive positive value of the companies labeled as sustainable. In the period between 2006 and 2013 the ESI obtained a performance index of 190% above the Ibovespa index. The clients of the companies CASAN, COPASA, SABESP and SANEPAR paid in their fees for water and sewage treatment, in R\$ average value, 72,5% of the total eMergy they have received. There is a disadvantageous relation between the biosphere and the water and sludge treatment system that is operated by the companies that were assessed. Every company assessed in the present work violates the first condition for sustainability due to the reduced volume of rain in the last 84 years, but shows to be sustainable in the long range if the defluence ever balances with the affluence at some point.

Keywords: *Environmental sustainability; Water supplying companies; BM&FBOVESPA; eMergy.*

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