



The University of Chicago
Department of Statistics

MASTER'S THESIS PRESENTATION

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**A Corporate Based Decision Making
Framework Targeted at Reducing Company
Greenhouse Gas Emissions**

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ABSTRACT

As global climate change becomes more and more prevalent, companies are being pressured to become more transparent and socially responsible. A 20-point business oriented decision framework designed for executives to reduce greenhouse gas (GHG) emissions is stated and analyzed. In this paper, 21 pharmaceutical companies from three countries (Europe, Japan, U.S.A.) are followed from 1997 to 2008, recording their GHG reduction actions as described by the framework. Given the nature of the data—repeated measures on each company—longitudinal methods are applied with emphasis placed on which of the 20 strategies best reduces GHG emissions. Secondary results and discussions into the effect of oil prices on company GHG emissions, feasibility/implementation of the best strategies, and lagged implementation effects are also presented.

Information about building access for persons with disabilities may be obtained in advance by calling Sandra Romero at 773.702-0541 or by email (sandra@galton.uchicago.edu).