Towards Green Companies: A Panel Data Study of The Environmental and Financial Performance Nexus

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Context

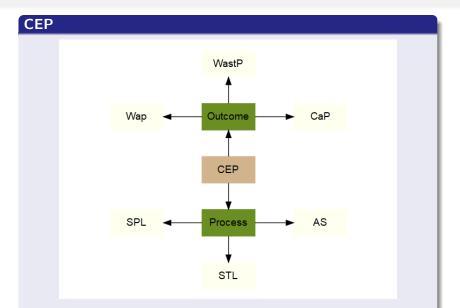
Objectives

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Theoretical Framework

CEP - CFP Nexus



Hypotheses

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Data Description

Introduction

$$Y_{it} = \alpha + \beta_1 SPL_{it} + \beta_2 STC_{it} + \beta_3 AS_{it} + Controls_{it} + d_t + u_{it}$$
(1)

where Y_{it} is a proxy of outcome-based CEP measured as carbon productivity, water productivity and waste productivity, SPL_{it} is a proxy for a firm's sustainability pay link, STC_{it} is a proxy for a firm's sustainability themed commitment, AS_{it} is a proxy for a firm's audit score, $Controls_{it}$ is a vector of control variables that includes firm size, industry sector, financial leverage and growth, d_t represents the time effect and u_{it} is the error term.

$$Y_{it+1} = \alpha + \beta_1 SPL_{it} + \beta_2 STC_{it} + \beta_3 AS_{it} + \beta_4 CaP_{it} + \beta_5 WatP_{it} + \beta_6 WastP_{it} + Controls_{it} + d_t + u_{it}$$
(2)

where Y_{it+1} is a proxy of CFP measured as ROA or Tobin's Q,

Panel Data

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Results

Process-based CEP positively influences outcome-based CEP

Table 1: The Impact of Process-Based on Outcome-Based CEP

		Dependent variable:	
	CaP Model (1)	WaP Model (2)	WastP Model (3)
SPL STC	0.010 (0.011) 0.058*** (0.010)	0.022* (0.012) 0.067*** (0.011)	0.025** (0.011) 0.046*** (0.011)
AS .	0.057*** (0.010)	0.068*** (0.011)	0.071*** (0.011)
FirmSize Leverage	-0.005 (0.008) 0.0003 (0.001)	-0.008 (0.008) 0.001* (0.001)	-0.010 (0.008) 0.001** (0.001)
Growth Industry	0.028 (0.028) 0.002 (0.002)	0.001 (0.030) -0.00001 (0.002)	0.003 (0.028) 0.004** (0.002)
BPLM test (pvalue)	0***	0***	0***
F test (pvalue)	0***	0***	0***
Observations	1,123	1,123	1,123
Adjusted R ² F Statistic (df = 7; 1113)	0.109 20.888***	0.138 26.892***	0.132 25.632***
r statistic (til = 7; 1113)	∠∪.008	20.092	25.032

Note:

^{*}p<0.1; **p<0.05; ***p<0.01

Both process and outcome-based CEP have a positive impact on CFP

Table 2: The Impact of Process and Outcome-Based CEP on CFP

	Dependent variable:				
	TobinsQ	ROA			
	Model (4)	Model (5)			
SPL	0.079* (0.044)	0.008** (0.004)			
STC	0.063 (0.044)	0.012*** (0.004)			
AS	0.158*** (0.044)	-0.004(0.004)			
CaP	-0.012 (0.135)	0.030** (0.012)			
WaP	0.337** (0.155)	0.006 (0.012)			
WastP	-0.199 (0.156)	0.010 (0.012)			
FirmSize	-0.443*** (0.015)	-0.020*** (0.001)			
Leverage	0.003 (0.003)	-0.00000 (0.0003)			
Growth	0.465*** (0.152)	0.138*** (0.012)			
Industry	-0.026*** (0.007)	-0.002*** (0.001)			
Constant	10.701*** (0.345)				
BPLM test (pvalue)	0.508	0.024**			
F test (pvalue)	0.323	0.012**			
Observations	954	1,093			
Adjusted R ²	0.500	0.282			
F Statistic	96.388*** (df = 10; 943)	44.007*** (df = 10; 1080)			

Note: *p<0.1; **p<0.05; ***p<0.01

Sensitivity analyses

Introduction

Describe + confirms results

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Summary

Main findings and contributions

Contribution 1

Main findings and contributions

Contribution 1

Introduction

Contribution 2

Main findings and contributions

Contribution 1

- Contribution 2
- Contribution 3

Main findings and contributions

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- Contribution 2
- Contribution 3
- Contribution 4

Limitation 1

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