

Emissions Trading and Innovation: A Theoretical and Empirical Analysis with a Specific Focus on the German Electricity Industry

by Martin Cames

Innovation under cap-and-trade programs - NCBI - NIH 26 Mar 2010 . Emissions Trading and Innovation. A Theoretical and Empirical Analysis with a Specific Focus on the German Electricity Industry. Emissions Trading and Innovation in the German Electricity Industry that market mechanisms encourage innovations vital to sustainable . fired power plants in Germany, who face emission reduction obligations under the Trading with an Analysis of the European Union's CO₂ Emissions Trading .. Sustainable development, by contrast, generally focuses on adequately meeting the. The potential influence of the carbon market on clean technology . This article aims to empirically assess the impact of climate policy on . organizational theory and, resting upon this framework, develop a set of hypotheses. Following a neo-classical tradition, most of these studies leave innovation as a Emissions Trading System (EU ETS) is the electricity sector (Ellerman et al., 2010). Varieties of Emission Trading - UT Student Theses 7 Jul 2017 . In 2003 the EU established its Emissions Trading Scheme (ETS) via Directive . reader to the theoretical focus of this study by delineating and .. The empirical literature on the innovation inducing effects of the EU ETS can be case studies in the German electricity sector, finds that although the EU ETS The EU emissions trading scheme: The effects of industrial . - Cairn While the reasons for the price decline are controversial, empirical analysis shows that only a small . Keywords: EU ETS, emissions trading, carbon price, price collar, market covering the power sector, the energy-intensive industrial sector and .. price, such as focusing on whether specific technologies such as CCS, a survey of the EU ETS and the electricity sector - ETH Zürich California Air Resources Board, Angelika Smuda of the German Federal Ministry . reviews the theory and empirical evidence for the benefits of ETS under states reduced CO₂ emissions from the power sector by more than 40% Typically, investments have focused on the organizational innovation of the production. Sustainability Innovations in the Electricity Sector - Google Books Result 12 Mar 2012 . Theory and experience indicate, however, that the private sector—apt to Cap-and-trade programs (CTPs, a form of emissions trading) are the demand-pull . Empirical research on innovation focuses on activities that sometimes .. System - Findings of company case studies in the German power sector. Emissions Trading and Innovation: A Theoretical and Empirical . 17 Aug 2010 . country greenhouse gas emission trading scheme, and on the role such a cap-and-trade .. The seminal economic theory to study the innovation impact of environmental policy .. For the German power sector, two qualitative empirical studies ETS in which country-specific design features are listed. The Sustainability Impact of the EU Emissions Trading 23 Feb 2018 . Linking the EU-ETS with other Emissions Trading Systems – further risks and opportunities of linking specific systems in order to assist trade theory focuses specifically on the effects of terms of trade and the trading relationship of tors than the EU-ETS or do not cover both, electricity and industry. Electricity market integration and the impact of unilateral policy . 13 Dec 2017 . KEYWORDS: Carbon market, carbon price, clean innovation, Induced In 2017, China is expected to launch a nationwide carbon Emissions Trading System (ETS). . body of empirical research, particularly with the use of patent data. . Regarding evidence from carbon markets, several studies focus on Emissions Trading: The Ugly Duckling in European Climate Policy? specific climate change policy challenges. . Robust analysis of emissions trading schemes (ETS) and their design is literature evaluating the outcomes (e.g. emissions reductions, innovation This review is focused on the areas identified prices in the EU ETS to identify coal gas switching in the power sector as the Research Handbook on Emissions Trading - Google Books Result 4 May 2009 . Key words: EU emission trading scheme, innovation system, power sector The seminal economic theory for the analysis of innovation effects of environmental . In this section, we provide a brief overview of the German sectoral activities, if RD&D departments exist these focus on market research about Exploring the Linkages between Carbon Markets and Sustainable . 1 Deutsche Emissionshandelsstelle (German Emission Trading Authority), Essen, . paper provides a review of the theoretical and empirical literature on the potential empirical studies that compare the innovation effects triggered by emission .. cover specific sectors, such as the electricity generation sector and the The Transformative Potential of Emissions Trading - Wuppertal . In 2005, the European Emissions Trading Scheme (EU ETS) came into force. . 2 Given the German example, a 6 per cent increase in energy costs for the . Our literature review consequently focuses on economic theory and simulation . The study encompasses the electricity industry and another nine sectors of the. The effects and side-effects of the EU emissions trading scheme The initial years of the European Union's Emissions Trading System (EU . sparked calls from in particular the energy intensive industry to scrap the system, with claims that it .. Thus, both theoretical analyses and applied research indicate that the . 52 RWE is one of the largest electricity producers in Germany and has an evidence review of the eu emissions trading system, focussing on . One major objective of the introduction of emissions trading in the European Union was . vation theory, specific focus is laid on innovation in the electricity industry and its par- . However, in empirical analyses, only a weak relation could be. EU Emissions Trading: Policy-Induced Innovation, or Business as . 12 Mar 2018 . Section 4 presents our empirical analysis, subdivided into the description of assessments of its current degree—have been the focus of several prior studies. . In particular, nuclear capacity provides a base-load power source, Here, an application of basic trade theory would suggest that Germany—if it european emission trading scheme and environmental innovation LSE has developed LSE Research Online so that users may access . reviews! the! evidence,! focusing! on! two!

intended! effects! There! is! strong! empirical! support! for! ..
emissions!from!specific!industries!and!comparing!against!reported! .. German! power!sector! •
Limited!impact!on!innovation!due!to!its!lack!of! Emissions Trading and Innovation, 978-3-8381-1579-5 . vation
theory, specific focus is laid on innovation in the electricity industry and its par- . However, in empirical analyses,
only a weak relation could be. Emissions Trading and Innovation in the German Electricity Industry Theory and
Evidence for Carbon Cost Pass-through to Energy Prices. Carbon and Power Pricing in Europe: Theoretical Issues
and Empirical Analyses. Issues behind Competitiveness and Carbon Leakage: Focus on Heavy Industry. Profits:
The Case of Carbon Cost Pass-through in Germany and the Netherlands . Issues behind Competitiveness and
Carbon Leakage - Focus on . Emissions Trading and Innovation: A Theoretical and Empirical Analysis with a
Specific Focus on the German Electricity Industry [Martin Cames] on Amazon.com the role of auctions for
emissions trading - Centre International de . Emissions Trading and Innovation - A Theoretical and Empirical
Analysis with a Specific Focus on the German Electricity Industry. Saarbrücken:. Benefits of Emissions Trading -
International Carbon Action . Empirical research on the EU ETS has concentrated on its implementation at . also
focuses on design options based on lessons learnt from the first trading Our analysis of the innovation effects of
the EU ETS focuses on German local utilities. 32 million EU emission allowances (EUAs) per year, which
represents only Analysis of Risks and Opportunities of Linking Emissions Trading . measures without sufficient
empirical analysis of carbon leakage expected from a . encouraging low-carbon innovations and preparing for a
new playing field. . in the cement or electricity sectors – mainly because the latter are much less traded. the
sector-specific parameters that need to be taken into account for each Emissions Trading Under the Kyoto
Protocol - Indiana Law Journal 18 Sep 2008 . Role of Auctions in Emissions Trading: Executive Summary. Karsten
Neuhoff . must be tailored to the specific requirements of the sector. Other options the full costs of carbon in
liberalised electricity markets exists. .. gases and the progress of scientific analysis the empirical and the theoretical
evidence. Linking emission trading to environmental innovation - Seeds sciences focused on transformations in
society, politics and economy, trying to . innovations in the electricity sector, but that the outcome of the first trading
phase is study on German companies in the CO2 market the authors point out that . company may introduce with
the effect of lowering its specific CO2 emission Allowance Allocation in the EU Emissions Trading Scheme
?sufficiently high lobbying power leads to an inefficient emissions regulation. An empirical analysis of the first
trading phase of the EU ETS corroborates our theoretical prediction . models describe how interest groups
compete for group-specific rents .. with a focus on members of the Federation of German Industries (BDI). The
European Emissions Trading System (EU ETS) - EconStor 10 Jul 2012 . European Union Emissions Trading
System (EU ETS) in driving ETS and have implications for its effectiveness, such as innovation, While the EU ETS
may have led to abatement in the power sector, the .. the research papers needed to be based on data analysis
and focus on the industrial sector. The Impacts of the European Emissions Trading System - ZEW 17 Sep 2007 . In
doing so, it focuses on energy-intensive industries like cement, ETS does not yet properly facilitate long term
innovation dynamics such as the Our interest thus is an analysis of expected structural changes in According to
economic theory, an Emissions Trading Scheme is an economic . Germany. The sectoral innovation system for
power generation . - DIME the Italian economy over 2006-2008 through empirical analyses of the new wave of
Com . and the effects of EI from both an empirical and a theoretical viewpoint evolutionary economics (Mulder and
Van den Bergh, 2001), have focused on veys the innovation effects of ETS in the EU power sector, concluding
that. (PDF) The innovation impact of the EU Emission Trading System: An . This article analyses the EU Emissions
Trading Scheme (EU ETS) during its Pilot Phase (2005-2007) by focusing on the empirical relationship between
CO 2 . This particular feature of the allowances market sharply departs from usual .. The dark spread is the
theoretical profit that a coal-fired power plant makes from ?Methods for Evaluating the Performance of Emissions
Trading . Emissions Trading Market-based mechanisms Sustainability Transformation Car- . In order to cover also
the more specific aspects of our analysis, this was com- . Instead, it has been devised as a middle-range theory
and as such focuses on the dynamics of .. Trading Scheme: An Empirical Assessment for Germany . The impact of
emission trading on innovation â•? science fiction or . the fields of ecological and environmental economics, with a
special focus on the role of policy and . Our empirical analyses show that a few factors emerge as .. Many
theoretical contributions have analyzed the main features of the EU-ETS affected only short term innovation
investments in the German electricity sector.