

## 中国煤炭产业效率及其规制效应分析

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**摘要** 由于煤炭资源开发的外部性和能源安全保障需求,政府通过合理的政策规制以提升煤炭产业的效率水平,应该成为煤炭产业政策的主要目标之一。在政府试图对煤炭产业实施再规制的当下,科学考察我国煤炭产业的效率水平,评价现有主要政策对煤炭产业效率的规制效应,具有必要性和现实意义。本文采用中国煤炭企业 100 强 2007—2012 年的数据,构建 Malmquist 指数测算我国煤炭产业的效率水平,并基于 SFA 方法检验技术水平、安全生产和清洁生产规制对煤炭产业技术效率产生的冲击效应。结果显示:①样本期内,煤炭产业平均全要素生产率相对稳定,但技术效率却出现了恶化趋势;②规模较大企业的全要素生产率和技术效率都高于规模较小企业,而特大型企业的规模效率却不一定高;③技术水平规制对煤炭产业技术效率的正向效应明显,而安全生产和清洁生产规制的负向效应明显。这意味着,要想规制不伤害煤炭产业效率,就要短期内鼓励煤炭企业加大 R&D 投入以提升效率水平,而中长期要引导煤炭企业循序渐增加大安全投入以避免“暴饮暴食”和“消化不良”,并主要通过经济手段支持煤炭企业提高清洁生产水平和努力构建现代煤炭产业体系。同时,应在目前资源整合政策效应已显现的基础上,继续“抓大放小”,扶持适度规模的中大型煤炭企业,关停并转小煤矿,以促进整个煤炭产业效率水平提升。

**关键词** 煤炭产业;效率;规制效应;中国

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自 1992 年中国工业化进程加速以来,国内煤炭资源得到了大规模、高强度开发,煤炭产业在国家能源供应安全保障方面扮演着不可替代的角色。然而,长期以来,国内煤炭产业的粗放式扩张,导致产业集中度偏低,技术水平不高,矿难频繁发生,煤炭百万吨死亡率居高不下。“三率”(煤矿采区回采率、原煤入选率、煤矸石与伴生矿产资源利用率)水平低下,资源浪费严重,环境影响巨大。针对这些问题,2007 年国家发改委出台《煤炭产业政策》进行规制,以期能够促进煤炭产业健康发展。可是,2013 年以来全国严重雾霾天气的频繁发生,传统煤炭产业被推上风口浪尖。为此,政府试图对煤炭产业实施再规制。例如,2013 年国务院相继颁布《大气污染防治行动计划》和《关于促进煤炭行业平稳运行的意见》,国家能源局也为《煤炭产业政策》(修订稿)公开征求意见。由于煤炭资源开发的外部性和能源安全保障需求,政府通过合理的政策规制以提升煤炭产业的效率水平,应该成为煤炭产业政策

的主要目标之一。在政府试图对煤炭产业实施再规制的当下,科学考察我国煤炭产业的效率水平,并评价现有主要政策对煤炭产业效率的规制效应,具有必要性和现实意义。基于此,本文主要从投入产出视角考察我国煤炭产业的生产率和技术效率,并着重评估技术水平、安全生产和清洁生产规制对煤炭产业技术效率产生的冲击效应,最后在此基础上揭示相应的政策含义。

## 1 文献综述

一个企业需要运用资本、劳动、原材料等生产要素才能生产出产品,因而投入产出视角下的效率可以从生产率和技术效率两个层面来理解。生产率衡量企业每单位投入的产出量,而技术效率衡量企业对现有生产要素有效利用的能力。在经济学中,为了评价此种意涵的效率,往往需要联系“最优”的概念。这里的“最优”是对一个经济系统最优生产行为的描述,代表了最优生产状态下的最大产

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# Efficiency Of The Coal Industry

**George Q. Huang, Chen-Fu  
Chien, Runliang Dou**



## Efficiency Of The Coal Industry:

**The efficiency of the coal industry** James Mitchell Henderson, 1958 *The Efficiency of the Coal Industry* James Mitchell Henderson, 1958 No detailed description available for The Efficiency of the Coal Industry Comparative Efficiency of Labor in the Bituminous Coal Industry Under Union and Non-union Operation Bituminous Operators' Special Committee, 1923 **Industrial Fatigue and Efficiency** H. M. Vernon, 2022-05-29 First published in 1921 Industrial Fatigue and Efficiency aims to provide a fairly complete overview of industrial fatigue and its influence on efficiency It brings crucial themes like fatigue and its measurement output in relation to weekly hours of work output and hours of work in various industries the six hours day and multiple shifts work spells and rest periods limitation of output lost time and its causation sickness and mortality industrial accidents and their causation the prevention of industrial accidents and adoption of healthy factory conditions to showcase the importance of adequate lighting heating and ventilation washing facilities cloak rooms ambulance room and a well found canteen as basic requirements in factories This book is an important historical document for scholars and researchers of labour studies labour economics industrial studies and political economy **The Coal Industry**, 1919 Psychology and Industrial Efficiency Harold Ernest Burt, 1929 *Industrial Efficiency* Arthur Shadwell, 1906 Fossil Energy Update, 1977 **Energy Waste and Energy Efficiency in Industrial and Commercial Activities** United States. Congress. Senate. Committee on Commerce, 1974 **Efficiency, Finance, and Varieties of Industrial Policy** Akbar Noman, Joseph E. Stiglitz, 2016-11-29 Industrial policy once relegated to resource allocation technological improvements and the modernization of industries should be treated as a serious component of sustainability and developmental economics A rich set of complimentary institutions shared behavioral norms and public policies have sustained economic growth from Britain's industrial revolution onwards This volume revisits the role of industrial policy in the success of these strategies and what it can offer developed and developing economies today Featuring essays from experts invested in the expansion of industrial policies topics discussed include the most effective use of industrial policies in learning economies development finance and promoting investment in regional and global contexts Also included are in depth case studies of Japan and India's experience with industrial policy in the banking and private sector One essay revisits the theoretical and conceptual foundations of industrial policy from a structural economics perspective and another describes the models packages and transformation cycles that constitute a variety of approaches to implementation The collection concludes with industrial strategies for facilitating quality growth realizing more sustainable manufacturing development and encouraging countries to industrialize around their natural resources Industrial Efficiency and State Intervention Dr Nick Tiratsoo, Nick Tiratsoo, Jim Tomlinson, 2005-09-30 Nick Tiratsoo and Jim Tomlinson describe and assess the Labour Party's development of a policy of improving industrial efficiency They concentrate on the debates and initiatives of the wartime period and subsequent implementation of policy under Attlee The book modifies existing historiography in two ways it shows

that the Labour Party of 1945 51 was concerned mainly with industrial modernization not with creating the Welfare State and it tackles the consequently necessary re evaluation of wider theories about Britain s economic decline      Bibliography of Industrial Efficiency and Factory Management (books, Magazine Articles, Etc.) Harry George Turner Cannons,1920

*Energy Efficiency in the Minerals Industry* Kwame Awuah-Offei,2017-10-31 This book presents a state of the art analysis of energy efficiency as applied to mining processes From ground fragmentation to mineral processing and extractive metallurgy experts discuss the current state of knowledge and the nagging questions that call for further research It offers an excellent resource for all mine managers and engineers who want to improve energy efficiency to boost both production efficiency and sustainability It will also benefit graduate students and experienced researchers looking for a comprehensive review of the current state of knowledge concerning energy efficiency in the minerals industry      **Fuel Efficiency in**

**Cement Manufacture, 1909-1935** Nicholas Yaworski,National Research Project on Reemployment Opportunities and Recent Changes in Industrial Techniques (U.S.),1938      ,      **Proceeding of the 24th International Conference on Industrial Engineering and Engineering Management 2018** George Q. Huang,Chen-Fu Chien,Runliang Dou,2019-01-12 This book records the new research findings and development in the field of industrial engineering and it will serve as the guidebook for the potential development in industrial engineering and smart manufacturing It gathers the accepted papers from the 24th International conference on Industrial Engineering and Engineering Management held at Central South University of Forestry and Technology in Changsha during May 19 20 2018 The aim of this conference was to provide a high level international forum for experts scholars and entrepreneurs at home and abroad to present the recent advances new techniques and application to promote discussion and interaction among academics researchers and professionals to promote the developments and applications of the related theories and technologies in universities and enterprises and to establish business or research relations to find global partners for future collaboration in the field of Industrial Engineering It addresses diversethemes in smart manufacturing artificial intelligence ergonomics simulation and modeling quality and reliability logistics engineering data mining and other related fields This timely book summarizes and promotes the latest achievements in the field of industrial engineering and related fields over the past year proposing prospects and vision for the further development      The Social Efficiency of the Coal Industry Eugene Robert Palowitch,1982      The Foundations of

National Industrial Efficiency Vanderveer Custis,1923      **Coal Industry Commission Act, 1919** Great Britain. Royal Commission on Coal Industry 1919,1919      **Efficiency of Investment in a Socialist Economy** Mieczyslaw Rakowski,2013-10-22 Efficiency of Investment in a Socialist Economy sums up the work done by the Economic Research Division of the Planning Commission at the Council of Ministers of the People s Republic of Poland on the theory of studies on the efficiency of investment and its applications This work was to a great extent connected with the preparation of the new General Instruction on Methods of Studies of the Economic Efficiency of Investment published by the Planning Commission in

1962 The book is organized into two parts Part I on research methods covers methods for economically assessing of the efficiency of investments involving the construction of new plants for the economic assessment of supplementary investments in already functioning plants and for the analysis of smaller investments Part II presents several examples including calculation of the efficiency of investment for a mine producing boiler coal the efficiency of replacement of old thermal power stations and the efficiency of production of natural gas and oil This book may be of interest to persons dealing with studies on efficiency of investment by virtue of their profession

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