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### Review article

# Evaluating sustainability of using natural gas as a major transport fuel in Australia: A life cycle assessment approach

P. Koltun\*, A. Tharumarajah

## ABSTRACT

For reasons of sustainability, greenhouse gas emissions, and energy security, it becomes necessary to properly evaluate all of Australia's options for powering its transportation fleet. When doing this it is equally important to understand all the costs (economic, social, and environmental) and emissions during the fuel extraction, refining and distribution stages as well as the final combustion stage. All steps in the full pathway contribute to the final economic and environmental profile of any given fuel. The natural gas (NG) family of fuels has to be seriously considered as providing for large-scale transportation. From a combustion point of view, NG derivatives have a lower carbon-to-hydrogen ratio than oil-based fuels and should therefore be cleaner, but the upstream emissions of the fuels need to be properly understood. The supply pathways of gaseous fuels are more diverse than the oil-based fuels pathways, because the sources of gas are varied and can imply substantially different emissions profiles. It is therefore important to understand these various pathways so that the profiles for each can be documented and policy formulated accordingly. This preliminary study is conducted based on a life cycle assessment (LCA) approach to evaluate potential sustainability of using gaseous fuels (ONG/LNG) for light commercial and passenger vehicles in Australia taking into account information on the production, distribution and use of gaseous fuel. Data for this study are mostly sourced from published literature. The results of the study reveal a significant opportunity for Australia to increase sustainability of the transport fleet if it takes gaseous fuels on as major source for transport vehicles.

**Keywords:** Transport, Sustainability, Gaseous fuel, Life-cycle approach

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# Natural Gas In Developing Countries Evaluating The Benefits To The Environment

**Anne G. Tinker**



## **Natural Gas In Developing Countries Evaluating The Benefits To The Environment:**

Natural Gas in Developing Countries John Homer,1993 Describes how to run a sound and efficient bank in a liberalized financial environment Also available Banking Institutions in Developing Markets Volume 2 Interpreting Financial Statements Chris J Barltrop and Diana McNaughton 152 pages ISBN 0 8213 2218 4 Stock No 12218 20 00 Price code S2      *Carbon Taxes, the Greenhouse Effect, and Developing Countries* Anwar Shah,Bjorn Larsen,1992 A universal case cannot be made for national carbon taxes Nevertheless such taxes make eminent sense for many developing countries on the grounds of equity efficiency ease of tax administration and an improved local environment even ignoring the potential benefits from controlling global carbon emissions      **Economic Development and the Environment** Wilfred Beckerman,1995      **World Fossil Fuel Subsidies and Global Carbon Emissions** Bjorn Larsen,1992      The Contributions of Infrastructure to Economic Development Christine Kessides,1993-01-01 This paper reviews the linkages between infrastructure and economic development based on both formal empirical research and informal case studies The main thesis is that economic benefits result from investments in infrastructure only to the extent that they generate a sustainable flow of services valued by consumers Thus an analysis of infrastructures contributions to growth must look at the impacts of services as actually perceived not at indirect indicators that measure only aggregate provision of infrastructure capital The paper notes that macro and industry level research although having its limitations suggest a positive and statistically significant relationship between infrastructure and economic output However the conclusions derived from this research most of which derives from developed countries provide little specific guidance for policy To gain more practical insights about how infrastructure contributes to economic growth and to improved quality of life and to understand the welfare costs of inadequate or unreliable infrastructure it is necessary to look at microeconomic evidence Particularly interesting illustrations of these relationships are to be found in developing countries where there is wide variance in the availability and quality of infrastructure      Raising the Productivity of Women Farmers in Sub-Saharan Africa Katrine Anderson Saito,Hailu Mekonnen,Daphne Spurling,1994 World Bank Discussion Paper 230 Based on four country studies and extensive household surveys this paper documents the breakdown of traditional farming systems in Sub Saharan Africa and its implications for the role of women in agriculture      **Developing Effective Employment Services** David Fretwell,Susan Goldberg,1993-01-01 Employment services promote the efficient allocation of labor by among other things promoting labor mobility and improving productivity This paper assesses the cost effectiveness of services designed to expedite the exchange of labor between job seekers and employers The authors find that the benefits of employment services are not uniform Benefits may be reduced in small countries with a large informal sector or when the economy is stagnant and the demand for labor is depressed even though the need for the services may be greater under such conditions The authors advocate a balance between public and private sector delivery of employment services They favor opening the private market for what

they term support services which increase productivity and include income support and retraining Such support services are distinct from what the authors call core services provision of which they believe is properly left to the public sector Core services to assist job seekers include job placement services relocation assistance counseling and skills assessment The authors find that core services are cost effective and that public sector providers can ensure that such services are delivered to unemployed low skilled or semiskilled workers whose needs may not be met by the private sector The paper reviews the justification for and development of employment services over time and compares various approaches to the provision of such services It reviews the various types of employment services and examines the differences between public and private sector delivery Economic Growth and the Environment Dennis Anderson,1999 *Environment* Deborah Elliott,1993 Looks at the problems facing Europe s environment and suggests ways in which readers can act to protect their environment *Trade and the Environment* ,2011 *Economic Development, Environmental Regulation, and the International Migration of Toxic Industrial Pollution, 1960-88* Robert E. B. Lucas,David Wheeler,Hemamale Hettige,1992 Net displacement of toxic intensity toward developing countries may not have been inevitable in the last two decades And toxic industrial migration seems to have been the result of restrictive trade policies in the developing countries themselves more than of regulatory cost differences between the North and the South **Agricultural Pricing and Environmental Degradation** Edward Barbier,Joanne C. Burgess,1992 Changes in pricing policies are not enough to encourage poor farmers to reduce resource degradation Other approaches are also needed such as providing better research and extension advice improving property rights and management and establishing more secure tenure or access rights Just because we do not always understand the economic and social factors determining incentive effects does not mean they do not exist *Energy and Water Development Appropriations for 2004: Department of Energy fiscal year 2004 budget justifications* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2003 **Toward an Environmental Strategy for Asia** Carter Brandon,Ramesh Ramankutty,1993-01-01 World Bank Discussion Paper No 224 All of the World Bank s priorities for environmental aid to Asia are described in this comprehensive manual Also featured is a framework to improve the region s environmental management and achieve sustainable **Coping with the Disappointing Rates of Return of Development Projects with Environmental Impacts** William Ascher,1992 The fundamental political economy of early commitment to grandiose projects of uncertain environmental consequence has not been overturned Projects with environmental impacts often have unacceptably low rates of return governments and international agencies frequently fail to reject projects of this type More realistic evaluations will help It is important to hold those responsible for appraising a project accountable for their appraisals **The Design and Administration of Intergovernmental Transfers** Donald R. Winkler,1994-01-01 World Bank Discussion Paper 235 This paper evaluates Latin America s experience in the transfer of certain responsibilities from the national to the subnational levels of government The

experience of countries that have already decentralized the *Korean Industrial Policy* Danny M. Leipziger, Peter A. Petri, 1993 The World Bank is changing the way it does business in the energy sector This Policy Paper is one of two that outlines the Bank's new policies for the sector The review was prompted by concern about the effects of power generation on the environment and on populations that may be resettled to make way for projects Another stimulus was the macroeconomic reality of fewer investment resources in many countries And many developing countries are becoming more receptive to reforming the way energy is produced and consumed This paper credits the public monopoly approach of the last 30 years with facilitating expansion of power supplies capturing technical economies of scale and making effective use of scarce managerial and technical skills Nonetheless it recommends several new policies to improve the performance of the electric power sector in developing countries These reforms will guide future Bank activities in the sector Bank loans for electric power will go first to countries clearly committed to improving the performance of their power sectors The Bank will also discourage subsidies on energy prices and will encourage private investment in utilities And it will provide financing to help the least developed countries import power where local generation is not practical The efficiency of production and use of electric power in developing countries is examined in a companion paper *Energy Efficiency and Conservation in the Developing World* The World Bank's Role The World Bank's Role in the Electric Power Sector is also available in Spanish *La función del Banco Mundial en el sector de la electricidad Políticas para efectuar una reforma institucional regulatoria y financiera eficaz* ISBN 0 8213 2451 9 Stock No 12451 7 95 Price code 007 Spanis

**Borrower Ownership of Adjustment Programs and the Political Economy of Reform** John H. Johnson, Sulaiman S. Wasty, 1993-01-01 China has done much to reform its price system achieve macroeconomic stability and restore growth Nevertheless price distortions remain in three key areas This study suggests further price reforms for the energy grain and transport sectors It explains why energy price adjustments should have only a modest effect on consumer prices but a highly positive effect on the economy It discusses why China may have to reduce consumer subsidies to achieve the necessary reforms for grain prices The study describes what the government must do to strengthen commodity markets generate competition and make allowances for seasonal price variations China's transport sector has been a critical development bottleneck The paper reviews tariff adjustments and other reforms that would modernize the transport system and help it meet growing demand These reforms also would encourage energy conservation and help integrate the national economy

*Environmental Control in Thermal Power Plants* T.M. Aggarwal, 2021-04-08 From wood and coal to predominantly oil and natural gas Thermal Power Plants use fuels for power generation Water is used for process cooling as well as for service drinking requirement Chemicals are used for conditioning of water corrosion control and sometimes for conditioning of fuel as well Lubricants are used for machinery These inputs generate waste products Human related wastes sewage etc are also generated along with the processed waste These pollutants wastes need to be treated before their disposal from the plants The treated effluents are required to meet

the limits set by Central State Pollution Control Boards The regulations issued by these agencies specify the maximum allowable limits applicable to the pollutants discharge from the Power Plants This book is a serious effort that deals in detail with all the above issues and we are sure that scientists academicians researchers and professionals who are constantly facing these issues and are striving to move towards a zero emission regime will find this monograph a very useful reference tool on the topic Note T F does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka

**Making Motherhood Safe** Anne G. Tinker, 1993-01-01 This collection reviews national policies that critically influence economic performance in developing countries It describes principles that shape good economic policy and illustrates them with case studies In an overview that draws together insights from the essays the volume editor explains why poor countries need sound government policies to offset unfavorable conditions including scant natural resources adverse problems that occur with monetary and exchange rate policies and financial sector reform The basic rules for monetary policy in an open economy are developed along with the different ways in which financial reform and financial repression affect an economy Practical ways to deal with foreign exchange markets are described They include such arrangements as multiple exchange rates for commercial transactions and dual rates that separate commercial and financial transactions Also examined are the ways in which trade liberalization and trade restrictions impede economic development Advice is given on developing a uniform structure that balances the administration of taxes with the efficiency of a tax structure The book examines the relationship between budget deficits and money creation and suggests management strategies for developing sound economic policy that include advice on inflation control international trade import restrictions income tax rates and price and wage controls Published for the World Bank by Oxford University Press

## Whispering the Secrets of Language: An Psychological Journey through **Natural Gas In Developing Countries Evaluating The Benefits To The Environment**

In a digitally-driven earth wherever displays reign supreme and quick conversation drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within phrases usually go unheard. Yet, located within the pages of **Natural Gas In Developing Countries Evaluating The Benefits To The Environment** a captivating fictional value sporting with fresh feelings, lies an extraordinary journey waiting to be undertaken. Composed by a skilled wordsmith, that charming opus attracts visitors on an introspective journey, softly unraveling the veiled truths and profound affect resonating within the very cloth of each and every word. Within the emotional depths of the touching evaluation, we shall embark upon a heartfelt exploration of the book is core styles, dissect its interesting writing fashion, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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