

# The Effects of Energy Price Changes on Commodity Prices, Interprovincial Trade, and Employment

J.R. MELVIN



# Effects Of Energy Price Changes On Commodity Prices Interprovinc

**Jiachuan Tian**



## **Effects Of Energy Price Changes On Commodity Prices Interprovinc:**

**Commodity Prices and the New Inflation** Barry Bosworth, Robert Z. Lawrence, 1982 The role of primary commodities in industries economies The contribution of primary commodity price increases to inflation Sources of commodity price fluctuations Grain and petroleum the role of institutional changes The policy choices some general considerations Commodity stabilization policies some specific proposals

*Commodity Price Dynamics* Jiachuan Tian, 2016 The variation of energy prices has been a traditional source of shocks to the real economy In many cases this variation has manifested in jumps in energy prices that were characterized by some persistence From another perspective energy price volatility has historically been noted and its effects on real economy debated Historically the importance of the shocks to the real economy has led them to be labeled as energy crises as they were argued to have resulted in substantial changes in real prices that induced changes in behavior on the demand and supply sides of the many markets The first chapter re examines evidence of such a linkage by considering the transmission of energy prices into soft commodity prices This nexus lies within the core of any real effects as softs include food related commodities The paper contributes to the literature by re examining this linkage with a close eye on the role played by structural breaks within a time series and by considering the question of causality within a nonlinear framework We find that functional form is a critical specification that conditions inference Using linear forms we find no cointegration between energy and food in the full sample under the maintained hypothesis that there are no structural breaks Using linear nonparametric methods we examine the series for structural breaks and find evidence of their importance Based on subdivisions of the sample period as suggested by the structural break examination within the structural break intervals identified we find evidence of cointegration We next reconsider the issue within the context of nonlinear functional forms posing the question of whether evidence of structural breaks based on linear methods follow from underlying nonlinearity Our results confirm the importance of functional form specification and we find evidence of nonlinear causality between energy and soft commodity prices Empirical studies of transmission of energy prices into the real economy have been challenged by a number of significant specification issues that have resulted in substantial variation in inference drawn from results Among these issues is the question of completeness of model specification Chapter 2 examines the question of whether such models need to incorporate macroeconomic indicators Clearly macroeconomic factors such as interest rates and exchange rates play a role in the determination of energy and commodity prices however considerable specification uncertainty characterizes the question of which macro metrics to incorporate We examine this issue from the perspective of weak exogeneity and find evidence that the parameter estimates associated with time series models that exclude consideration of macro indicators are not compromised by their exclusion We examine this issue using Italian U S grain and Brent crude oil prices While structural break threshold and asymmetric cointegration models can allow us to characterize the linear and nonlinear dynamics in price transmission in level it is of equal interest to differentiate across the

type of price change to consider what might be thought of as typical price changes versus extreme price changes associated with either temporary structural change or mean reverting change as in what we call price jumps In particular while a structural break is a permanent and long run structural shift in DGM a jump in a series represents a sudden temporary change in the pattern of the observations generated Such change is temporary in a sense that its effect usually diminishes rather quickly usually in relatively few periods That means intuitively in relatively short time span after a jump the price series will revert to its mean or its long run smooth pattern which we call the trend of the series In Chapter 3 we present a detailed discussion of the proper representation of such price jumps and show that there are price jumps in the real world economic price series The last chapter is concerned with the micro structure specification to identify origins of price jumps that can not be generally characterized by the competitive market models In particular we propose a rather general model of procurement process where imperfectly informed buyers search for and place bids to suppliers to fulfill procurement demand We show that in this process search cost market structure and market condition are crucial factors in generating price jumps Later in the simulation part we show that the model proposed in this paper can generate jumps that resemble those in the observed economic price series We also integrate buyers risk aversion in market conditions though they are risk neutral in payoffs through their personal belief and search costs We show that buyers risk aversion increases their sensitivity to market conditions which exaggerates price movements with presence of supply shocks

**Energy Price Shocks and Macroeconomic Performance** Douglas R. Bohi, 2017-02-17 The oil price shocks of the 1970 s led to severe recessions in the 1980 s in the United States Originally published in 1989 in the aftermath Bohi attempts to show both how energy prices can cause a decline in output and employment and to explore important other factors which led to the recessions using the US United Kingdom Japan and Germany as examples The findings in Energy Price Shocks and Macroeconomic Performance have major implications for energy policy and questions government plans which focus solely on preventing another oil supply disruption This title will be of interest to students of environmental studies and economics as well as professionals

Economic Effects of Recent Increases in Energy Prices John Peterson, 2006-08 NOTE NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT OVERSTOCK SALE Significantly reduced list price while supplies last Analyzes the short term macroeconomic effects of the recent rise in energy prices as well as the likely effects over the next ten years Utility company personnel American citizens and consumers economists and energy policy advocates may be interested in this volume to compare it to today s energy position and dependence in America Middle school students and above may be interested in this volume for research papers All libraries should have a copy of this text in their reference collections Related products International Energy Outlook 2016 With Projections to 2040 can be found here [https://bookstore.gpo.gov/products/sku/061\\_003\\_01167\\_5](https://bookstore.gpo.gov/products/sku/061_003_01167_5) New Realities Energy Security in the 2010s and Implications for the U S Military is available here [https://bookstore.gpo.gov/products/sku/008\\_000\\_01093\\_5](https://bookstore.gpo.gov/products/sku/008_000_01093_5) Energy Fuels resources collection can be found here <https://bookstore.gpo.gov/catalog>

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*Regional Impacts of Rising Energy Prices* William H. Miernyk, Frank Giarratani, Charles F. Socher, 1978 Con motivo de la crisis energetica e E U U Ha sufrido un alarmante aumento en los precios del petroleo y sus derivados la hipotesis de este estudio estriba en la necesidad de crear una nueva estructura de los precios energeticos y una futura congelacion de los mismos para evitar la diferencia economica entre los distintos paises y regiones mundiales

*Energy Price Increases in Developing Countries* Einar Hope, 1999 March 1995 Six case studies show that raising energy prices to eliminate subsidies does not harm the poor growth inflation or industrial competitiveness And public revenues improve When domestic energy prices in developing countries fall below opportunity costs price increases are recommended to conserve fiscal revenue and to ensure efficient use of resources Using six case studies Hope and Singh investigate the effect of energy price increases on the poor inflation growth public revenues and industrial competitiveness The effect on households in various income classes depends on the energy commodity s share in the household budget and the price elasticity of demand For energy as a whole electricity and fuels traditional and commercial budget shares often decline with income So in terms of income distribution taxing energy is not ideal But commercial fuel consumption increases greatly with income so any subsidies applied will largely benefit nonpoor urban households For each commercial energy source electricity kerosene diesel and gasoline proportionate household spending will generally be lower and some energy sources will be luxuries In no instance does energy spending exceed 10 percent of the typical household budget for any income group The effect on industry is generally modest since cost shares for energy typically range from 0.5 to 3 percent with the typical value being 1.5 In addition many industries are flexible enough to substitute when energy prices increase Energy prices tended to increase in adjustment and liberalization programs and industrial output usually increased even with the higher energy prices This suggests that the effect of the price increase is modest compared with the effects of other changes in the environment There are exceptions of course such as energy intensive industries with limited possibilities for substitution Estimating the effects on public deficits is straightforward even with uncertainty about demand elasticities Energy price increases reduce the drain on public resources significantly It is harder to trace the effects on inflation and growth in national income The effects on inflation will generally not be severe and inflation may even be reduced in the intermediate to long run through lowered public deficits Income growth rates were generally higher after the years of energy price adjustments than they were in the years before the price increases with one exception and the years of the price increases with one exception Income growth rates were higher during the years of price increases than before in about half of the case study countries This paper a product of the Public Economics Division Policy Research Department is part of a larger effort in the department to study the distributional and environmental effects of energy pricing policies The study was funded in part by the Bank s Research Support Budget under the research project Pollution and the Choice of Economic

Policy Instruments in Developing Countries RPO 676 48      *Do Increases in Energy Prices Cause Higher Food Prices* Sara Diab, Mohamad Karaki, 2022 This paper studies the effect of structural shocks in the crude oil gasoline and ethanol markets on U S retail food prices while accounting for the change in the U S biofuel policies around May 2006 We estimate a structural vector autoregressive model using data on aggregate and disaggregate real food prices First we find that positive oil specific demand shocks and positive ethanol demand shocks trigger a significant increase in the real aggregate retail price of food in the post May 2006 sample Second focusing on the period following the inception of the biofuel policies in 2006 we find that both aggregate demand shocks and oil specific demand shocks lead to significant increases in the prices of some of the major disaggregate food expenditures whereas a positive ethanol demand shock generates significant increases in the real prices of all disaggregate food expenditures Third we examine the transmission of energy price shocks to real food prices by comparing how corn differs from other grain prices Moreover we study the effect of energy price shocks on the prices received and paid by U S farmers Furthermore we assess how unexpected increases in energy prices affect the food marketing cost Our findings clearly stress on the fact that the source behind the increase in oil gasoline and ethanol prices matters for evaluating the impact of energy price shocks on retail food prices We also find ample evidence that increases in the food marketing cost are primarily caused by unexpected increases in gasoline prices Keywords oil prices gasoline prices ethanol prices food prices supply and demand JEL Q41 Q42 Q43 Q11 E31      **Essays on the Effects of International**

**Commodity Prices Shocks** Mauricio Stern, 2023 Many emerging economies depend on commodities whose prices are volatile High prices for these commodities naturally help those sectors related to the production of the commodities but the economic benefits for other sectors are ambiguous These effects can be different according to the characteristics of the sector leading to a positive or negative sectoral effect depending on several features Also commodity price shocks may affect spending differently according to the characteristics of the population A feature prevalent in many emerging economies is a low degree of banking penetration which can affect the magnitude of commodity shocks because banking services are related to how people save and borrow affecting their ability to smooth spending when they face income shocks This dissertation studies the effects of commodity price shocks in exporting economies analyzing the overall and sectoral effects as well as the regional effects according to access to banking services among inhabitants The first chapter analyzes the effect of commodity price fluctuations on both overall and sectoral outcomes in a commodity exporting economy Using Chilean and international copper market data I find positive copper price changes stemming from copper specific demand shocks generate a broad GDP expansion with no visible decline in the exports of any sector including manufacturing These results provide evidence against the Dutch disease hypothesis involving the crowding out effect of commodity price increases on the manufacturing sector The second chapter studies how features of a commodity exporting economy such as the degree of substitution between domestic and foreign goods the income effect on labor supply and trade policy related to tariffs on imports shape

overall and sectoral effects of commodity price shocks For that I estimate key structural parameters of a small open economy business cycle model with 6 sectors by matching my empirical impulse responses and find that a low degree of substitution between domestic and foreign goods explains the positive sectoral effect of a commodity price shock Then I evaluate how tariffs on imports shape the effect of commodity price shocks and find low tariffs make the small open economy less sensitive to commodity price shocks when the elasticity of substitution between domestic goods and imports is small The third chapter studies the relationship between access to banking services and the magnitude of external shocks Using quarterly data of the number of checking and savings bank accounts per person as an indicator of access to banking services I analyze the effects of commodity price changes conditional on the number of bank accounts per person across Mexican states I find decreases in commodity prices generate a bigger contraction in total production in states with low numbers of bank accounts per person A rise in commodity prices generates a bigger expansion of the number of formal workers as well as a wider contraction in the number of informal workers in regions with a low number of bank accounts per person

The Economics and Finance of Commodity Price Shocks Mikidadu Mohammed,2021-11-25 The behaviour of commodity prices never ceases to marvel economists financial analysts industry experts and policymakers Unexpected swings in commodity prices used to occur infrequently but have now become a permanent feature of global commodity markets This book is about modelling commodity price shocks It is intended to provide insights into the theoretical conceptual and empirical modelling of the underlying causes of global commodity price shocks Three main objectives motivated the writing of this book First to provide a variety of modelling frameworks for documenting the frequency and intensity of commodity price shocks Second to evaluate existing approaches used for forecasting large movements in future commodity prices Third to cover a wide range and aspects of global commodities including currencies rare hard lustrous transition metals agricultural commodities energy and health pandemics Some attempts have already been made towards modelling commodity price shocks However most tend to narrowly focus on a subset of commodity markets i e agricultural commodities market and or the energy market In this book the author moves the needle forward by operationalizing different models which allow researchers to identify the underlying causes and effects of commodity price shocks Readers also learn about different commodity price forecasting models The author presents the topics to readers assuming less prior or specialist knowledge Thus the book is accessible to industry analysts researchers undergraduate and graduate students in economics and financial economics academic and professional economists investors and financial professionals working in different sectors of the commodity markets Another advantage of the book s approach is that readers are not only exposed to several innovative modelling techniques to add to their modelling toolbox but are also exposed to diverse empirical applications of the techniques presented

**Energy Price Increases in Developing Countries** Einar Hope,1995      **Commodity Prices and Inflation Expectations in the United States** Oya Celasun,Mr.Lev Ratnovski,MissRoxana Mihet,2012-03-01 U S monetary policy can remain extraordinarily

accommodative only if longer term inflation expectations stay well anchored including in response to commodity price shocks We find that oil price shocks have a statistically significant but economically small impact on longer term inflation compensation embedded in U S Treasury bonds The estimated effect is larger for the post crisis period and robust to controlling for measures of liquidity risk premia Oil price shocks are also correlated with the variance of longer term inflation expectations in the University of Michigan Survey of Consumers in the post crisis period These results are not attributable to looser monetary policy oil price increases were associated with expectations of a faster monetary tightening after the crisis Overall the findings are consistent with some impact of commodity prices on long term inflation expectations and or on inflation rate risk

**Commodity Price Movements and PCE Inflation** Bart Hobijn,2009 With the recent run up in crop and energy prices and the subsequent sharp reversal of these trends the effects of commodity price movements on U S inflation merit renewed attention A study of the contributions of grain and oil prices to the PCE index of inflation suggests that the effects are more modest than one might expect Moreover commodity price increases affect relatively few goods prices Higher crop prices translate narrowly into price hikes for food tobacco and gardening supplies rising oil prices mainly influence fuel energy and transportation prices *The Impact of a Sharp Oil Price Increase* G. E. Angevine,1980

**The Economics of Energy and Natural Resource Pricing** United States. Congress. House. Committee on Banking, Currency and Housing. Ad Hoc Committee on the Domestic and International Monetary Effect of Energy and Other Natural Resource Pricing,1975

**The Price is Not Always Right** Daniel Lederman,2014 This paper provides an overview of the impact of once and for all changes in commodity prices and other prices on household welfare It begins with a collection of stylized facts related to commodities based on household survey data from Latin America and Africa The data uncover strong commodity dependence in both continents households typically allocate a large fraction of their budget to commodities and they often depend on commodities to earn their income This income and expenditure dependency suggests sizable impacts and adjustments following commodity price shocks The paper explores these effects with a review of the literature It studies consumption and income responses labor market responses and spillovers across sectors It ends up providing evidence on the relative magnitudes of various mechanisms through which commodity prices affect household and national welfare in developing economies Abstract

Commodity Prices and Inflation in the Middle East, North Africa, and Central Asia International Monetary Fund,2010-06-01 Inflation followed a strikingly uniform pattern in all countries of the Middle East North Africa and Central Asia during the period 1996 2009 falling until about 2000 and then rising International fuel prices do not help explain this pattern This conclusion is robust even when different cross sections of countries are tested or when different regression variables are included The pattern of inflation is explained mainly by past inflation the strength of the US dollar US inflation and depending on the subset of countries analyzed monetary and exchange rate policies and nonfuel commodity prices Adjusting to Volatile Energy Prices Philip K. Verleger,1994 The author traces the development of

petroleum commodity markets then examines the quest by producers and consumers for stability in world oil markets He finds that modest producer and consumer gains can be realized through negotiations that achieve removal of barriers to trade elimination of hurdles to foreign investment and strengthening of financial institutions

**Socio-economic and Policy Implications of Energy Price Increases** Armand Pereira,Alistair Ulph,Wouter Tims,1987 *Sectoral Effects of a World Oil Price Shock* Kenneth Hanson,1991

**The Connection Between Commodity Prices and the Consumer Price Index in Canada** Vasilios Tsimiklis,2009 This study examines the relationship between changes in commodity prices and changes in inflation in Canada between 1983 and 2008 by looking at the ability of the Bank of Canada Commodity Price Indices to predict changes in the Consumer Price Index It is found that indices with energy components lead changes in inflation but only for the latter half of the sample period 1996 2008 Other suspected leading indicators of inflation such as the money supply the foreign exchange rate the housing index interest rates and the price of gold do not change the relationship or its strength The positive correlation between commodity prices and inflation is further supported by a decomposition of the mean real returns on portfolios into months in which a four month moving average of the Bank of Canada Commodity Price Index signals a rising price level and those which do not the mean real return being substantially higher in the signal on months

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