

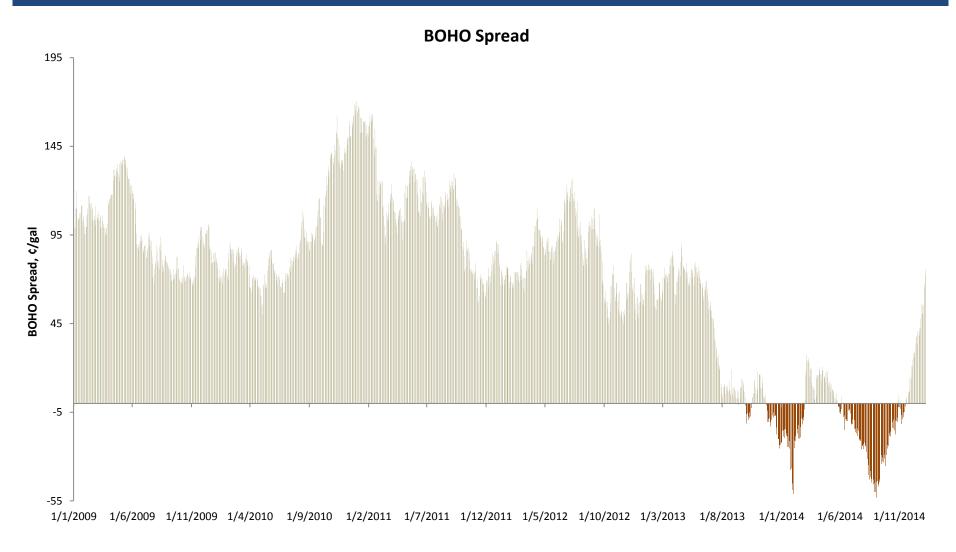


Presented by

Kevin McGeeney

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BOHO (CBOT Soybean Oil/NYH ULSD)





Source: Bloomberg

What is the purpose?

GHG emission reduction Energy Security Employment

 I define the problem as how to reduce the world's GHG emissions from energy use without negative impact on development









 Reduce the world's GHG emissions from energy use without negative impact on development

A) Through firm Governmental leadership









- Reduce the world's GHG emissions from energy use without negative impact on development
 - A) Through firm Governmental leadership

Do you approve or disapprove of the job the US	What do you have a higher opinion of:
Congress is doing?	The US Congress or hemorrhoids?
Approve 8%	Congress
Disapprove	Hemorrhoids 53%
Not sure 6%	Not sure 16%
What do you have a higher opinion of:	What do you have a higher opinion of:
What do you have a higher opinion of: the US Congress or witches?	What do you have a higher opinion of: the US Congress or Wall Street?
,	,
the US Congress or witches?	the US Congress or Wall Street?

 Public Policy Polling LLC. PPP surveyed 502 registered US voters between October 4-6, 2013. The margin of error for the overall survey is +/- 4.4%. This poll was not authorized or paid for by any campaign or political organization



- Reduce the world's GHG emissions from energy use without negative impact on development
 - A) Through firm Governmental leadership

"Only a small minority of Europeans trust their national institutions: 25% of Europeans "tend to trust" their government, a decrease of two percentage points since autumn 2012, while distrust has gained three percentage points to 71%. This situation is mirrored for trust in the national parliament (26%, -2 versus 68%, +2)."

European Commission: Standard Eurobarometer 79, Spring 2013



- Reduce the world's GHG emissions from energy use without negative impact on development.
 - A) Through firm Governmental leadership
 - B) Mass public protest









- Reduce the world's GHG emissions from energy use without negative impact on development
 - B) Mass public protest

Q. What do you think are the two most important issues facing (OUR COUNTRY) at the moment?				
Unemployment	51%	5 Pensions	9%	
Economic Situation	33%	5 Taxation	9%	
Rising Prices	20%	Education system	8%	
Government Debt	15%	5 Housing	5%	
Crime	12%	Environment, climate and energy	4%	
Health and social se	ecurity 11%	5 Terrorism	3%	
Immigration	10%	5 Other	1%	

European Commission: Standard Eurobarometer 79, Spring 2013



- Reduce the world's GHG emissions from energy use without negative impact on development
 - A) Through firm Governmental leadership
 - B) Mass public protest
 - C) Private Sector
 - For Profit Enterprise
 - Private Charity
 - Civil Society Organization



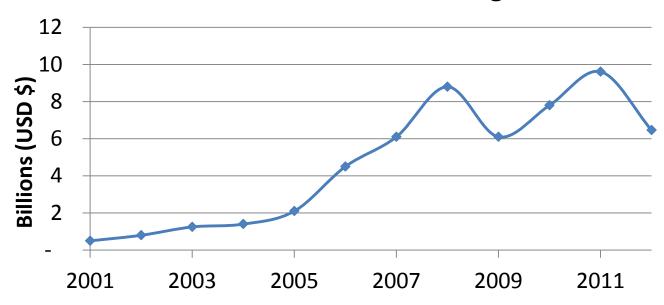






- Reduce the world's GHG emissions from energy use without negative impact on development
 - C) Private Sector

Cleantech Venture Investing



Cleantech Group LLC



- Reduce the world's GHG emissions from energy use without negative impact on development
 - A) Through firm Governmental leadership
 - B) Mass public protest
 - C) Private Sector
 - For Profit Enterprise
 - Private Charity
 - Civil Society Organization
 - D) Local Government









- Reduce the world's GHG emissions from energy use without negative impact on development
 - A) Through firm Governmental leadership
 - B) Mass public protest
 - C) Private Sector
 - For Profit Enterprise
 - Private Charity
 - Civil Society Organization
 - D) Local Government
 - E) All of the Above











Renewable Energy: What is worth focus?



Renewable Energy: What is material?

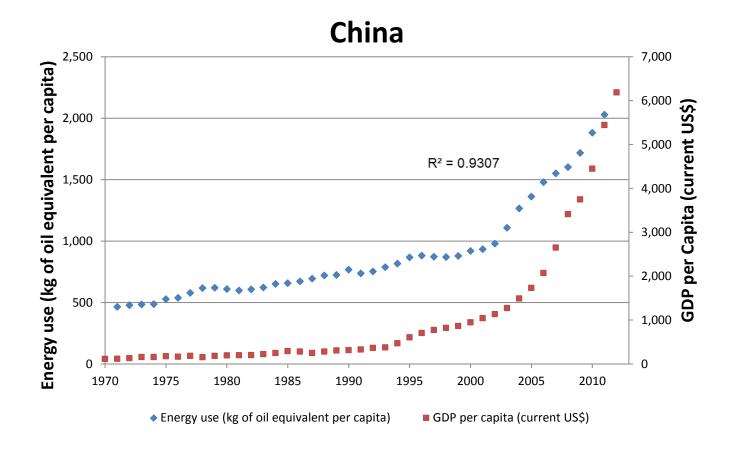
- Reduce the world's GHG emissions from energy use without negative impact on development
 - Is energy use correlated with economic development?



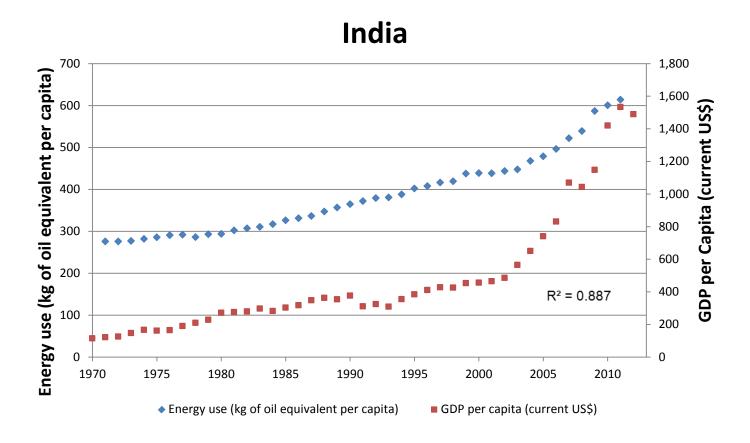




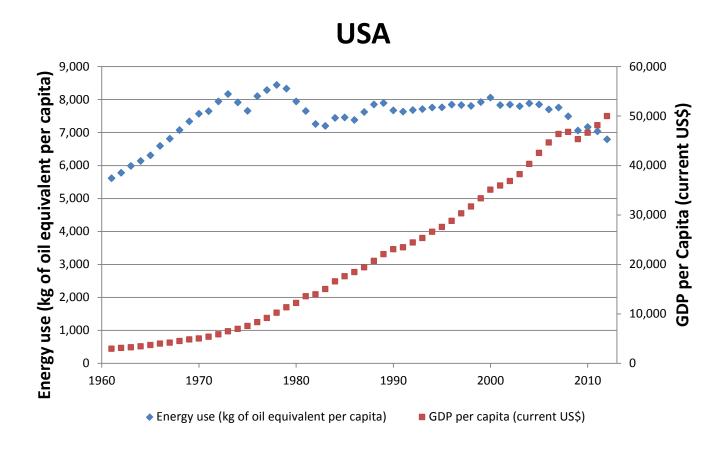




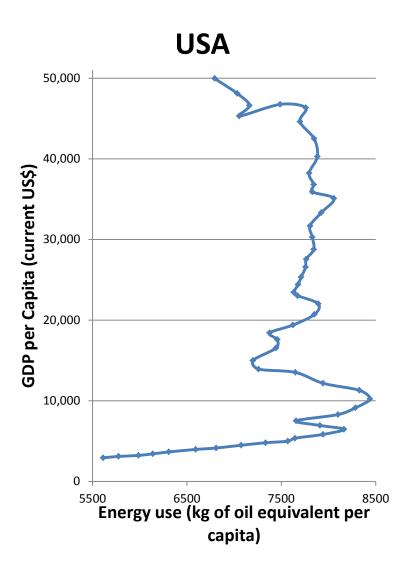




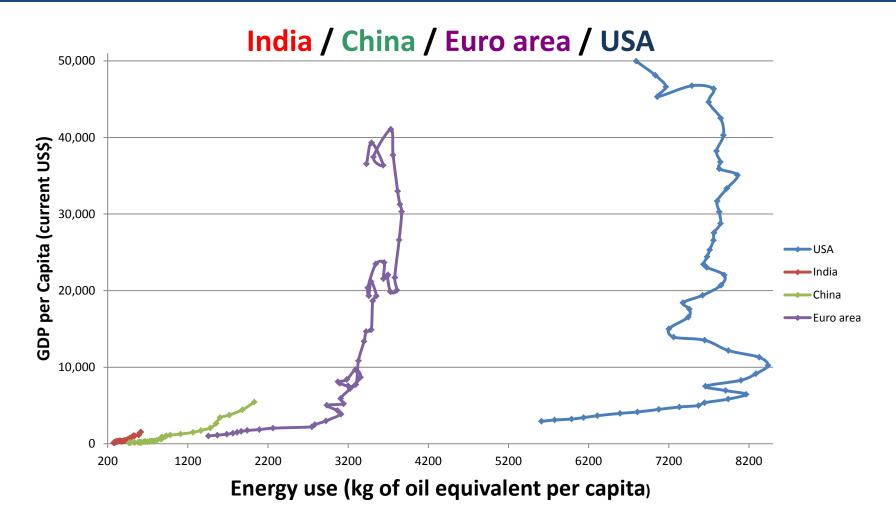














 Government has competing goals which makes firm leadership on climate change difficult

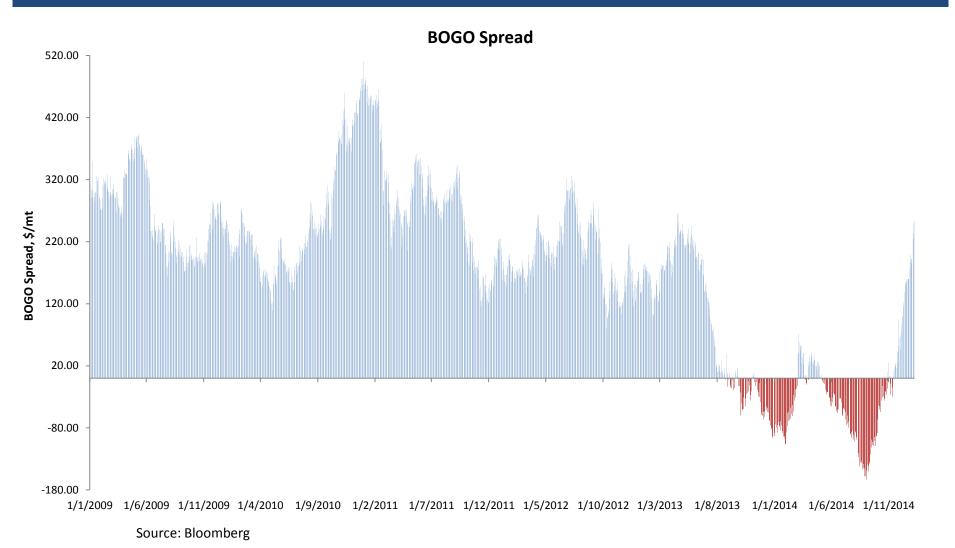
- No significant population see climate change as pressing
- Any suggestion developing countries cut emissions growth is seen as and is a request to cut population or economic development
- Higher energy prices lead to reduced emissions and improved technologies







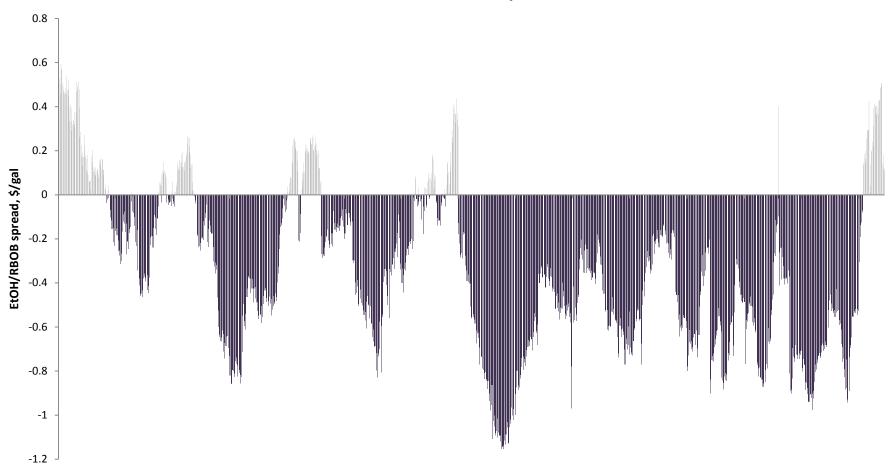
BOGO (CBOT Soybean Oil/ICE Gasoil)





US Ethanol/Gasoline spread (Chi Platts/RBOB)





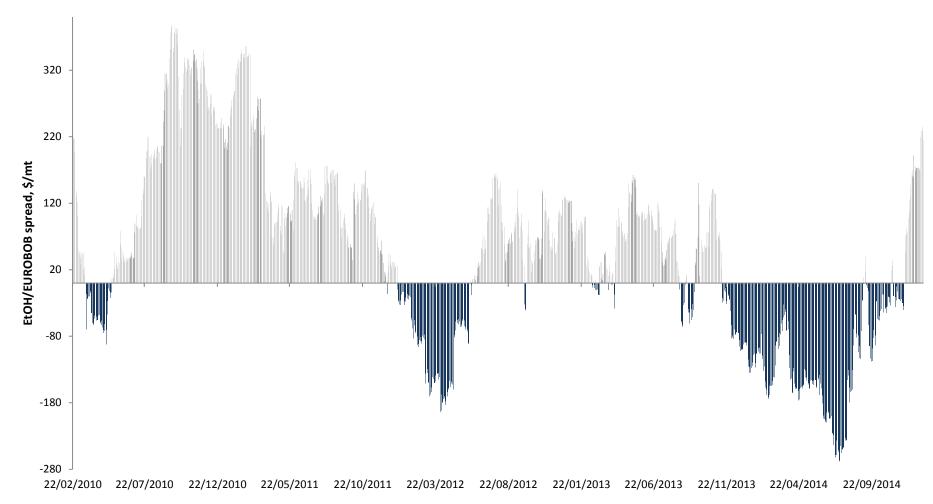
1/1/2009 1/6/2009 1/11/2009 1/4/2010 1/9/2010 1/2/2011 1/7/2011 1/12/2011 1/5/2012 1/10/2012 1/3/2013 1/8/2013 1/1/2014 1/6/2014 1/11/2014



Source: Bloomberg

EU Ethanol/Gasoline spread (SCB T2 FOB Rott/EUROBOB)

European Ethanol/Gasoline spread





Source: SCB proprietary data, Bloomberg