



# **Economic Assessment of Biofuel Support Policies**

**Summary of OECD Report  
Directorate for Trade and Agriculture**



**Press Conference, Paris, 16 July, 2008**



# Biofuels: Technology, Markets and Policies

- **Debate on biofuels needs to distinguish between**
  - **First and second generation biofuels**
  - **Different feedstocks for first generation biofuels**
  - **Market-driven developments and support policies**
  - **Policy objectives pursued**
- **Focus on support policies in OECD countries**

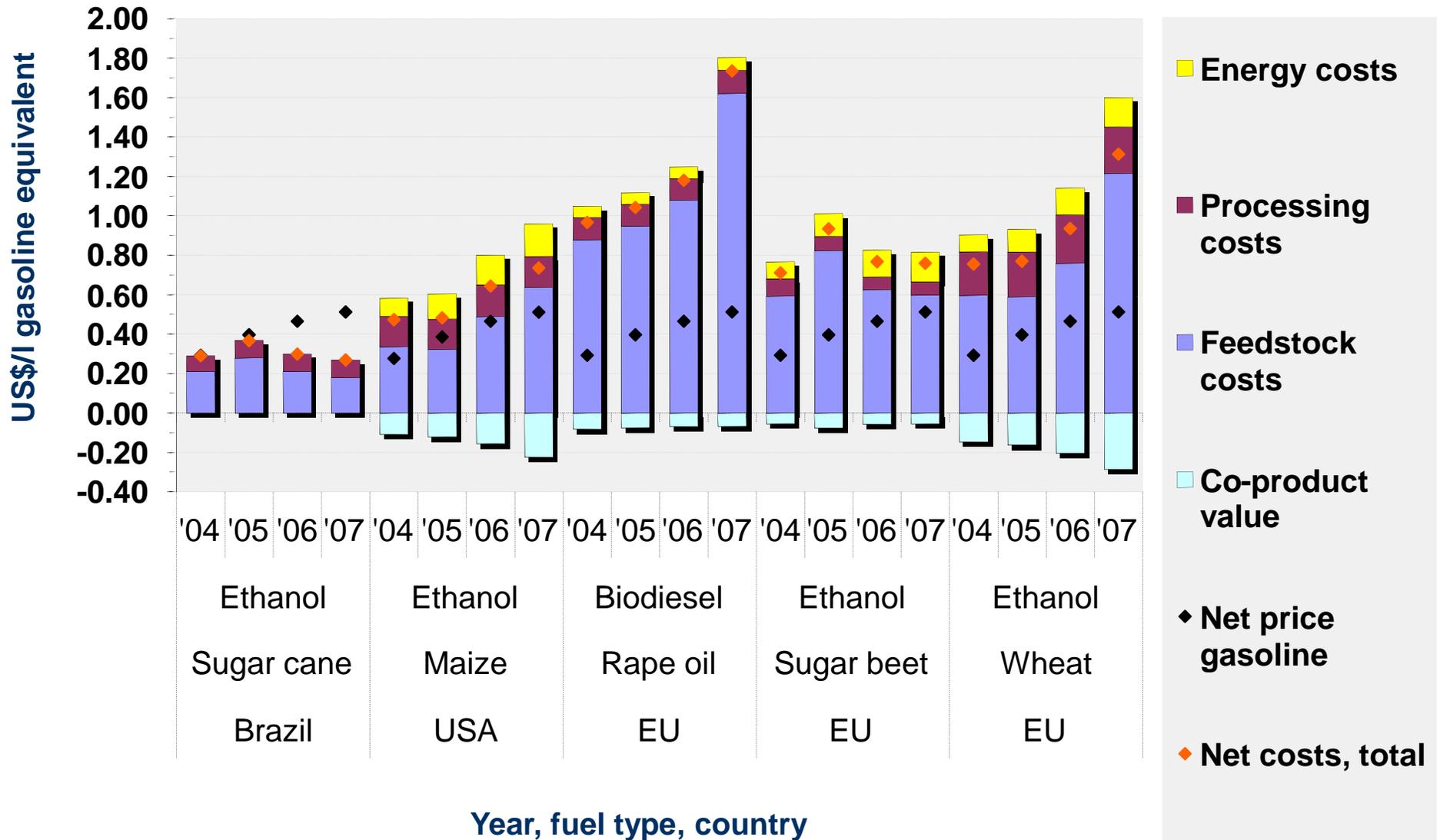


# Policy Issues

- **How far does biofuel production and consumption in OECD countries depend on policy support (subsidies, mandates, trade barriers)**
- **How effective are biofuel support policies in saving GHG emissions?**
- **How are agricultural prices affected?**

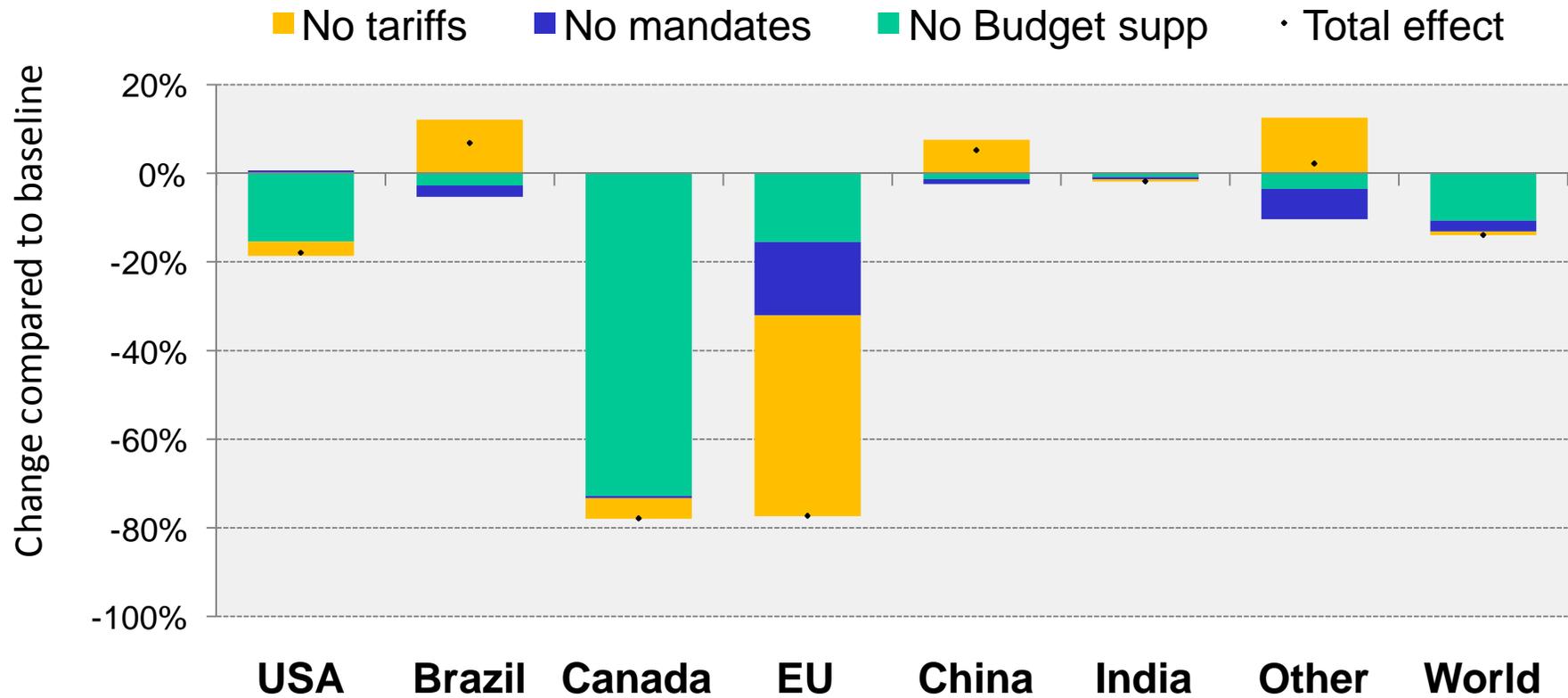


# A major challenge: Production costs



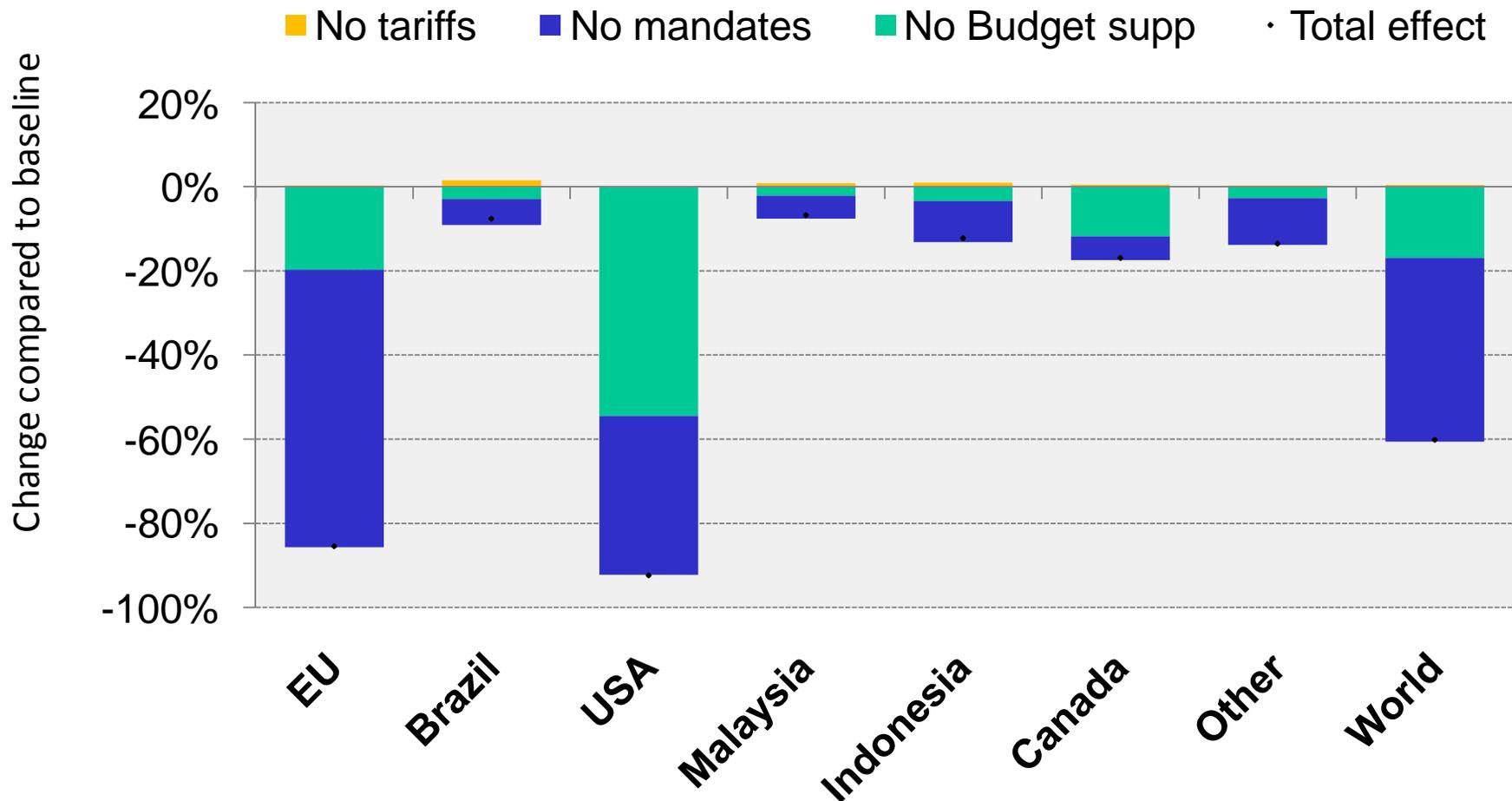


# Impact of biofuel support removal on ethanol production, 2013-2017 average





# Impact of biofuel support removal on biodiesel production, 2013-2017 average





# How Effective Are Biofuels in Saving GHG?

	GHG savings (CO2 equivalent)	
	From %	To %
Ethanol from wheat	30	60
Ethanol from maize	20	50
Ethanol from sugar cane	70	90
Ethanol from sugar beet	30	50
Biodiesel from vegetable oil	40	55



## How Effective are Biofuels Support Policies?

- **Support policies in Canada, US and EU save 0.5% to 0.8% of GHG emissions from transport in 2015**
- **Support policies are estimated to cost USD 25 billion per year in 2015**
- **Policy support to biofuels costs USD 960 to USD 1700 per tonne of GHG (CO2 equivalent) saved**

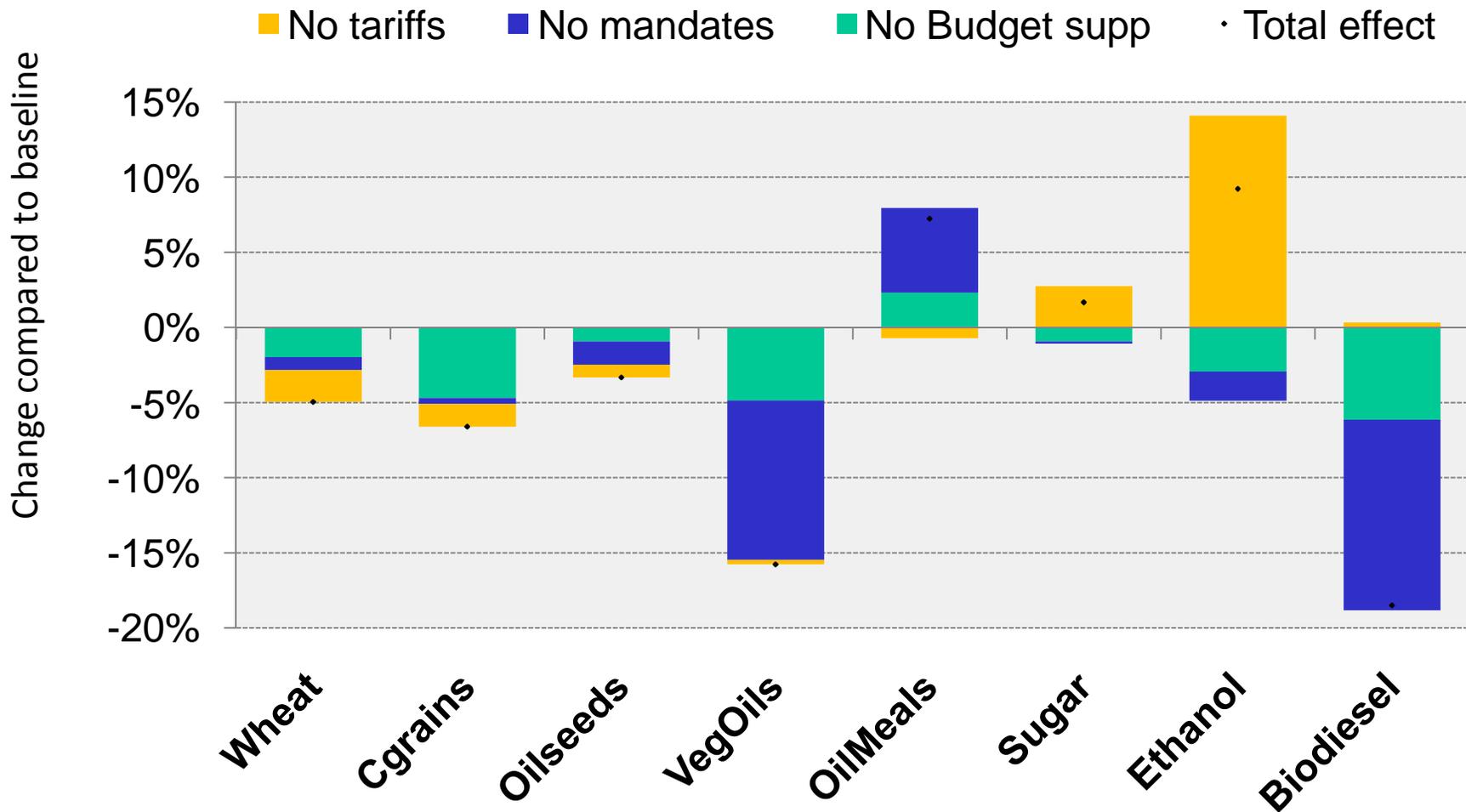


# Biofuels use high share of agricultural output

	2007 actual	2013-2017 average 2007 policies	2013-2017 average New US and EU initiatives
<b>Coarse grains (mainly US)</b>			
Share in US output	23.2%	36.3%	37.7%
Share in world output	8.4%	12.4%	13.4%
<b>Vegetable oils (mainly EU)</b>			
Share in EU output	47.2%	86.8%	129.3%
Share in world output	8.7%	14.0%	19.6%



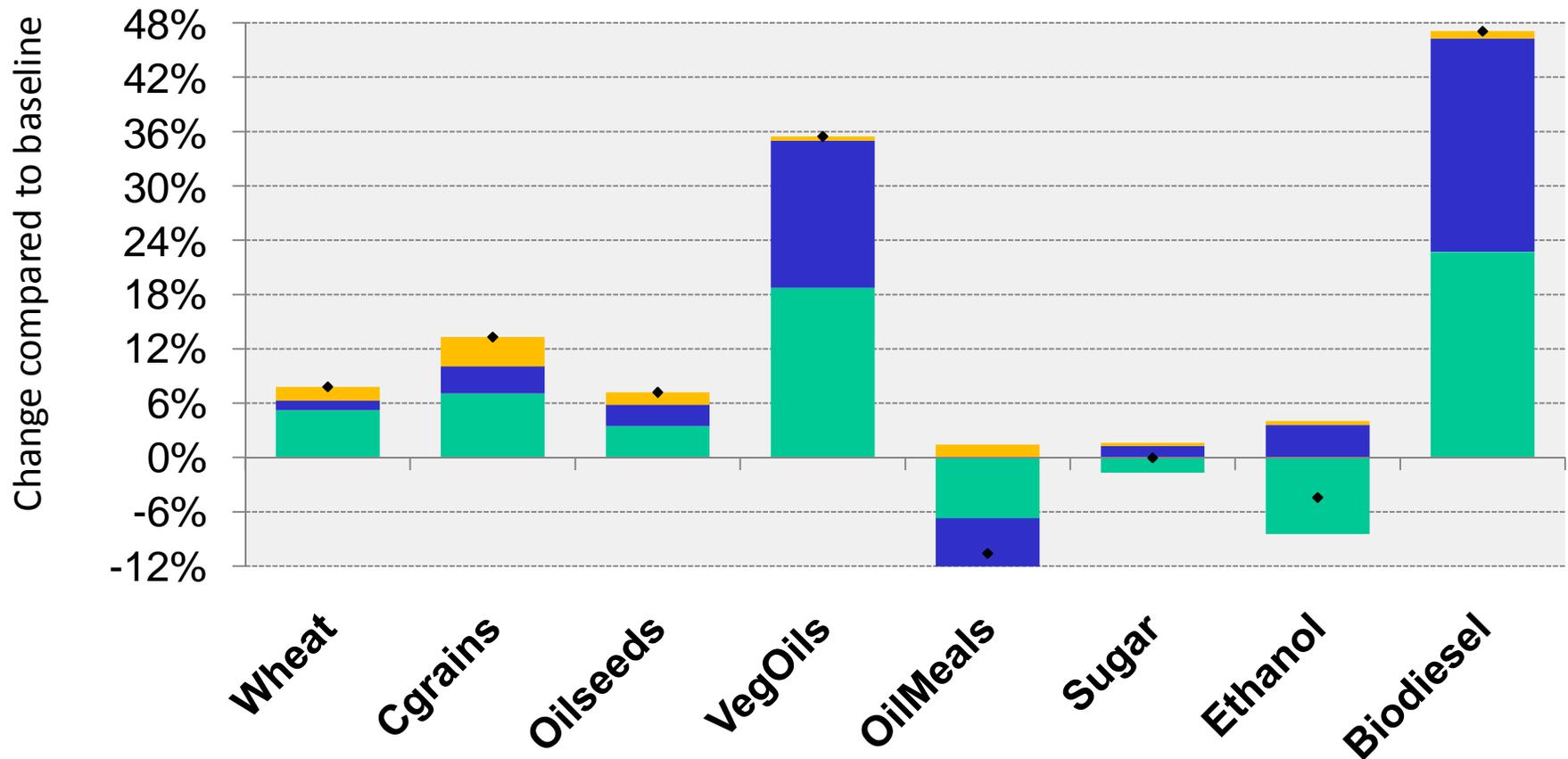
# Impact of biofuel support removal on world commodity prices, 2013-2017 average





# Impact of existing and new biofuel policy programmes on world crop prices, 2013-2017 average

■ 3 - New Initiatives - 2nd Gen. ■ 2 - New Initiatives - 1st Gen. ■ 1 - Current Policies ◆ Total Effect





## Policy Conclusions

- **Biofuels support policies in OECD countries are costly**
- **The impact of biofuels policies on GHG emissions is limited**
- **Biofuels support policies have significant impacts on global commodity prices**
- **New policy initiatives add to existing problems**



# The Way Forward

- **Alternative policy approaches may offer greater benefits**
  - **Reduced energy demand, GHG emissions**
  - **Freer trade in biofuels**
  - **Accelerated introduction of second generation biofuels that do not rely upon current commodity feedstocks**