

SCALE UP Conference 2017

PANEL

Tuesday, November 28, 2017

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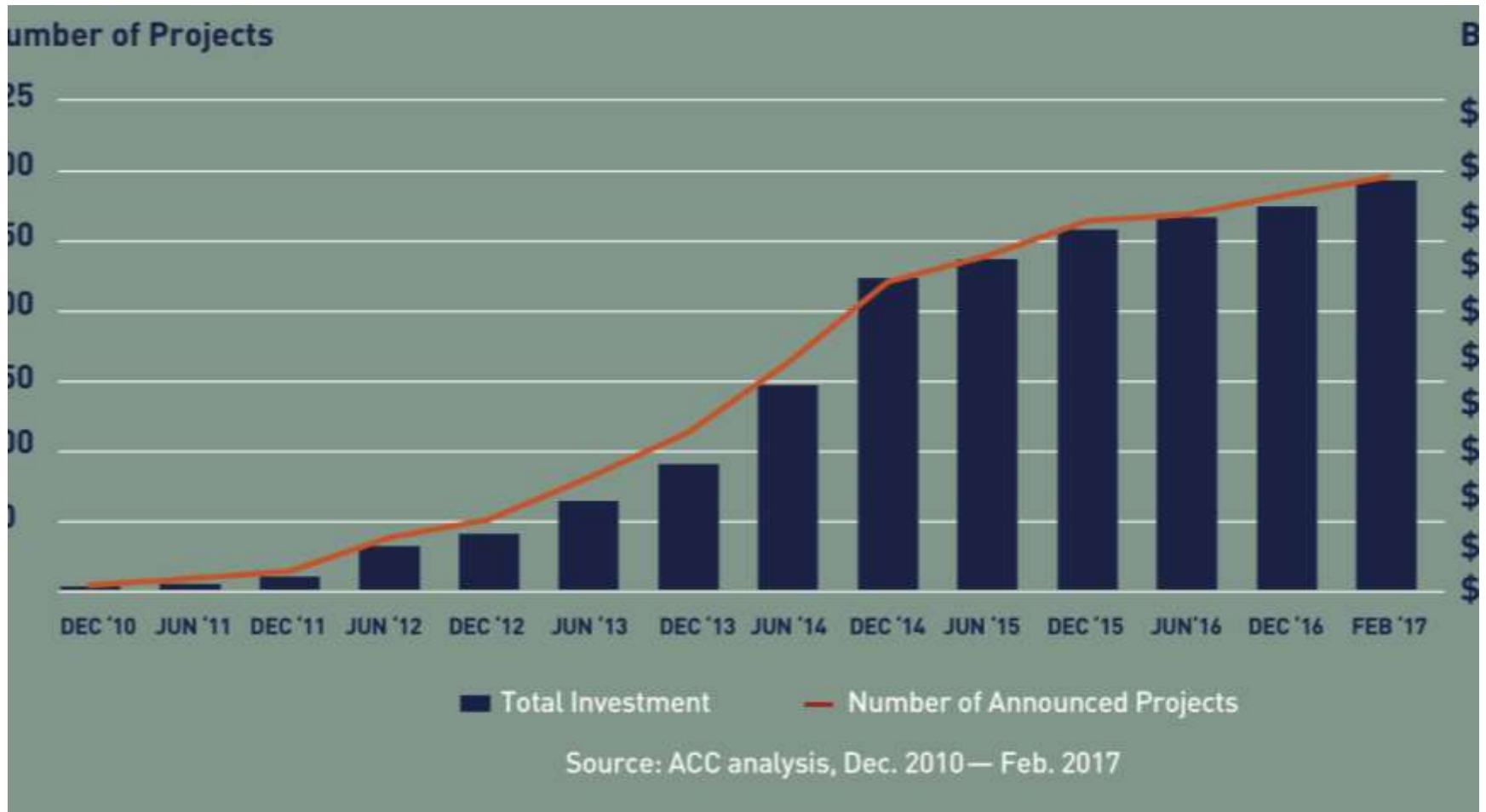
Bioeconomy: bound to wait for better circumstances ?

« Muddling through » looks like the most plausible scenario

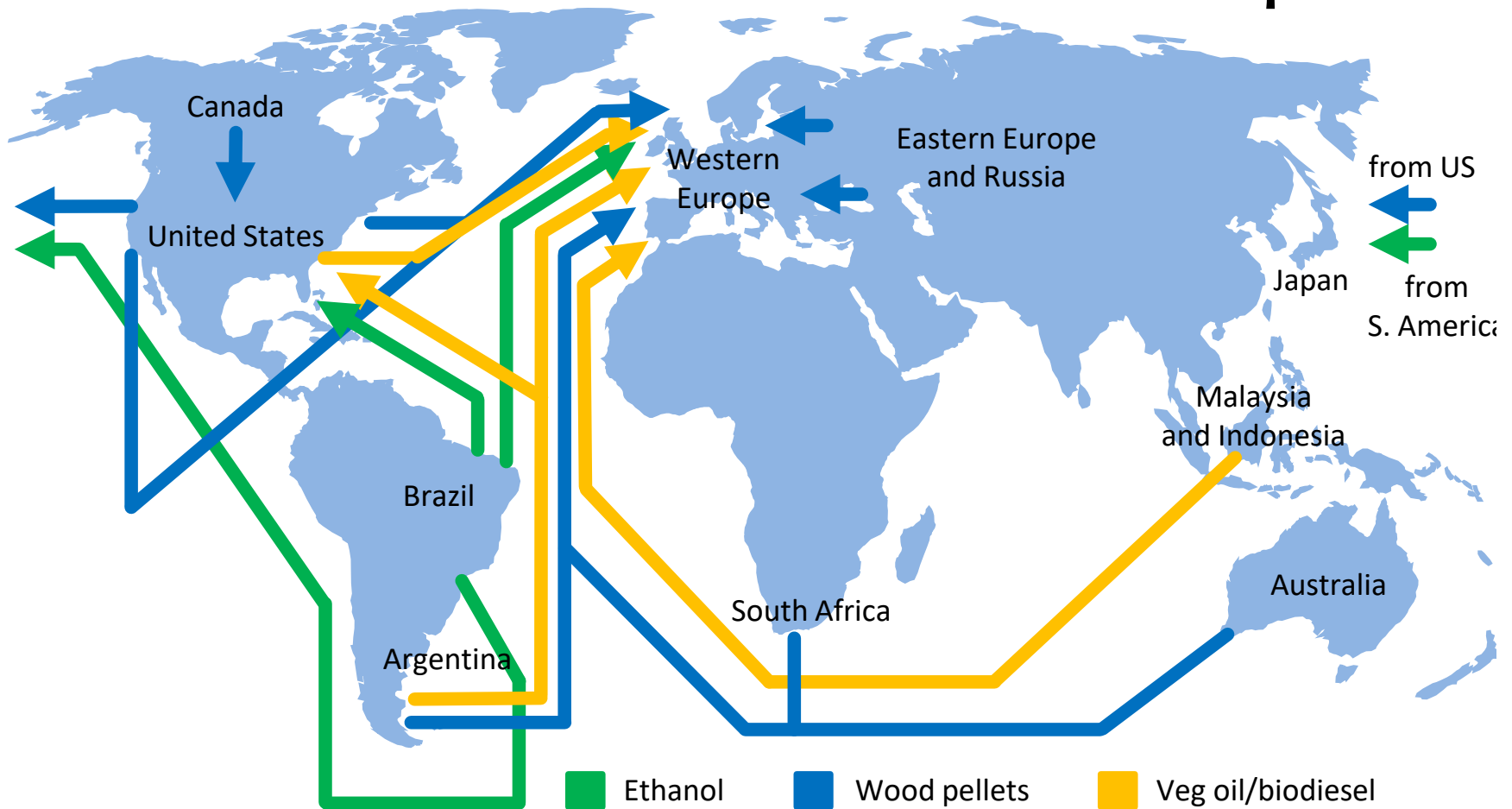
Game changers ?

- Carbon tax at global level : at/or over 50 \$ ton
- Rise of oil price : over 80 \$ a barrel for a sufficient long period
- Creation of a level playing field by national/regional players (compensating incumbents privileges)

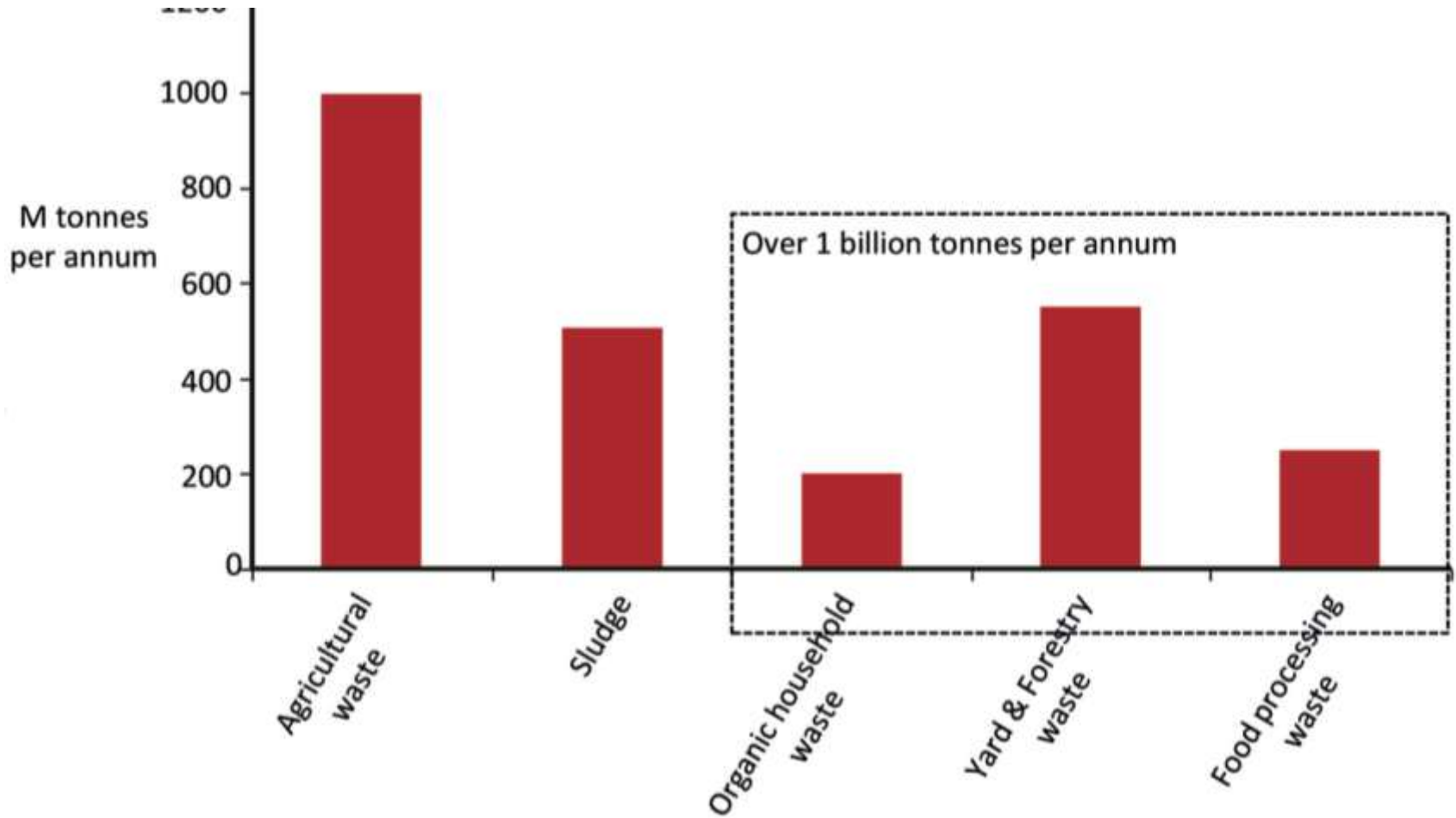
185 Billion US \$ to be invested in chemical plants based on shale gas as the feedstock by US actors



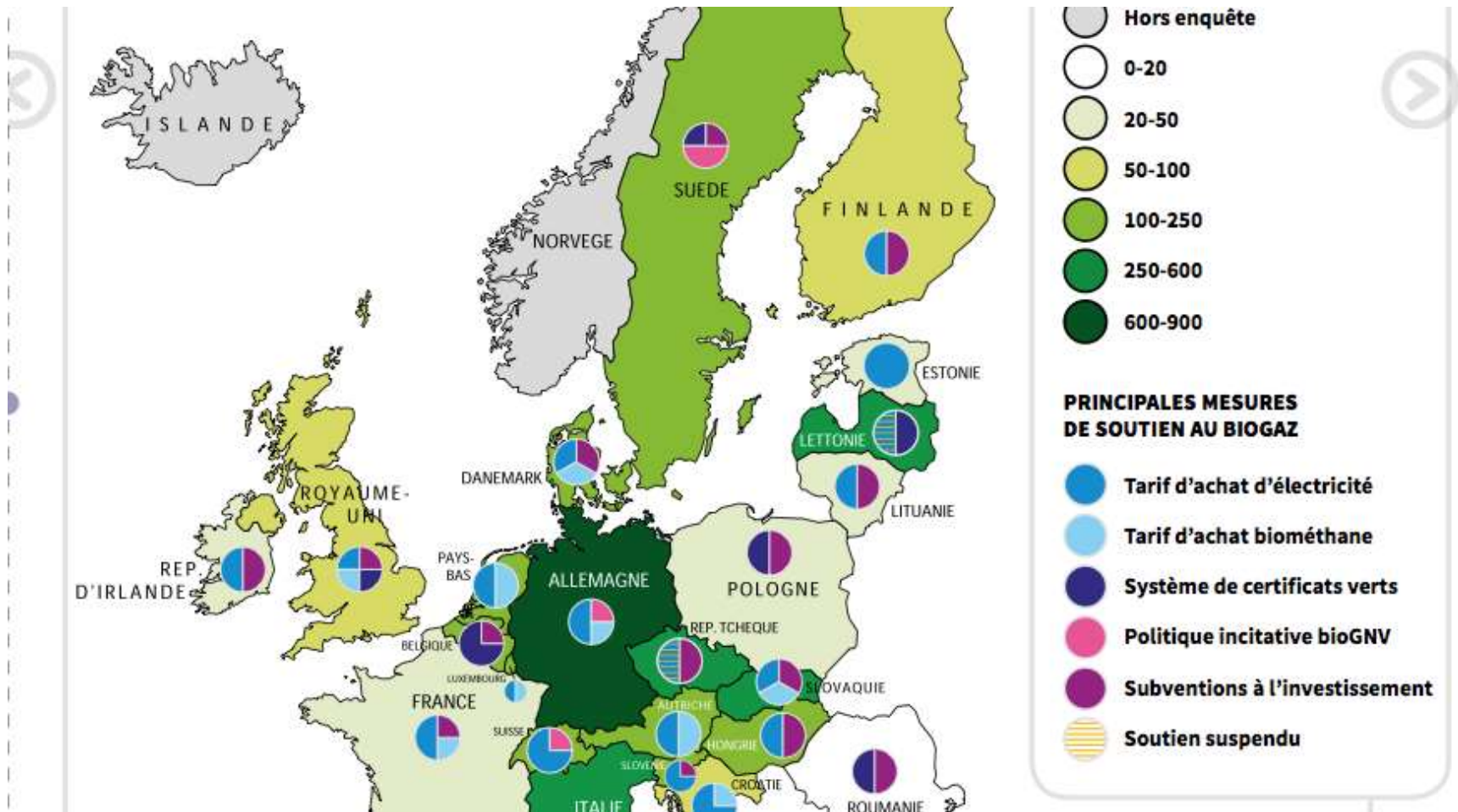
World biomass shipping routes in 2011 towards Europe



Estimate of the potential of waste materials in Europe (2bn tonnes/ pa)



Biogaz production in Europe (2012)



Estimates of subsidies to fossil fuels in 2013 (IEA, 2014)

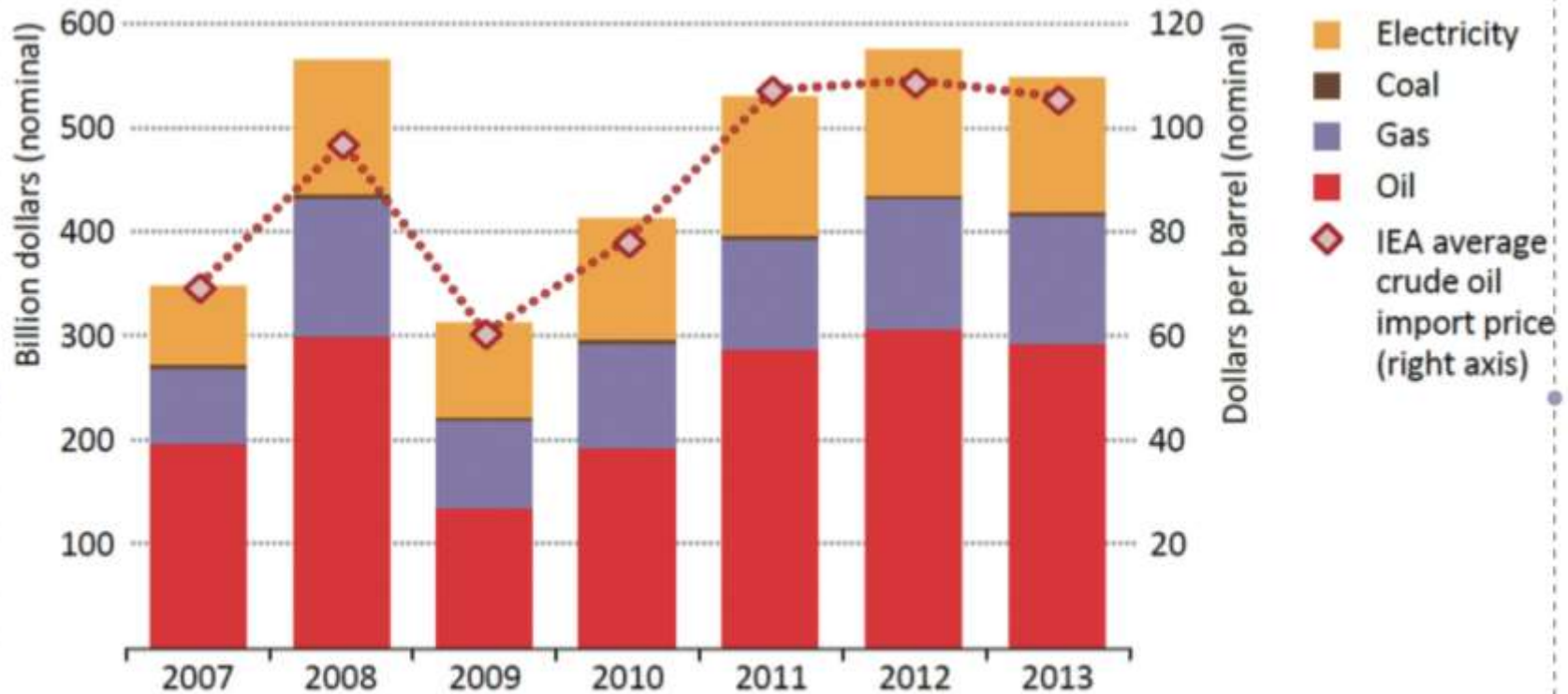


Figure 10: Estimate of subsidies to fossil fuels over the period 2007-2013. (IEA, 2014).
Source: IEA (2014).

Conclusion

- **Alignment of factors ?**
 - Long term influence of EC/EU on international markets, price structure, globalisation, volatility, geopolitics, global shocks ?
 - Medium term influence on multilateral agenda (OECD, G20) ?
 - Short term: (fall back): **creating a level playing field in Europe**
- **Alignment of actors ?**
 - **Multi-stakeholders dialogue platforms** (see [BIORESP.EU](#) in France)
 - Territorial initiatives (smart regionalisation strategies): **a network of regions**
 - New entrants: **a network of smart cities ?**

References (USA, EC)

- USDA/DOE: Federal Activities Report on The Bioeconomy (Feb. 2016): Compendium of measures
- USDA Farm Bill (2015) : biomass, loan guarantees for higher value added biobased specialty chemicals
- USA, DOE BETO and USDA: One billion ton biomass project
- EC: review of the bioeconomy strategy (ongoing), revised strategy (Q1 or Q2 2018 ?)

Publications

- ◆ Biorefinery 2030: Future Prospects, SPRINGER Verlag, Heidelberg, 2015 (Version française, L'Harmattan, 255 pages, Paris, 2014)
- ◆ Pierre-Alain Schieb & M. Chelly, The U.S Chemical Industry and Shale Gas: A Forthcoming Supply Shock, Industrial Biotechnology J., Vol. 13(4), Aug.2017, pp.165-167
- ◆ James Philp, Pierre-Alain Schieb & M. Chelly: Understanding Value chains in industrial bioeconomy, Réalités Industrielles (Annales des Mines), Février 2017, pp. 56-65.
- ◆ Pierre-Alain Schieb & M. Chelly: Compétitivité et soutenabilité de la bioéconomie, Novembre 2016, 260 pages, L'Harmattan, Paris.
- ◆ European Commission, FLAGSHIP, FP7 Research Project, Case study on bioeconomy/biorefinery, Schieb Pierre-Alain, December 2015 (unpublished)

Thank you for your attention
Merci pour votre attention

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