

Carbon Pricing: Where to from here?

How can public opposition be overcome?



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The Challenge

- 12 billion tonne gap
- Escalating emissions
- 5% change of <2 degC
- Modelled range 2-4.9 degC, median 3.2 degC
- Context: at 6 degC Earth
 Venus?



Source: www.sparkchange.io / UN Environment Programme 2017 Emissions Gap Report

"The Vanishing Face of Gaia" – James Lovelock

The Great Grandfather

- 1997 announcement to reduce 10% below 1990 levels by 2010
- Launch 1999, 12 major business units
- Real emissions, fake money, real reward
- March 2002 announcement:
 - 10% reduction achieved 7 years ahead of plan
 - \$650m in new shareholder value
 - Average price ~\$40/t CO2

"There is mounting evidence that greenhouse gas emissions exert an influence on the Earth's climate" – John Browne, 1997



Fig. 2. Greenhouse Gas Emissions Inside BP.

Source: BP's Emissions Trading System, Victor and House (2005)

European ETS

- Core pillar of EU climate policy
- 43% below 2005 levels by 2030, 1.82bn cap in 2020
- '10% reduction 2005-2012, no impact on competitiveness'
- Erosion of impact through overlapping policies leads to allowance oversupply, depressed prices and policy intervention:
 - Renewable Energy Directive
 - Fuel Quality Directive Upstream Emissions Reductions ~£200/tCO2
 - 'Reduction in 700mt demand'
 - Backloading/Market Stability Reserve



Source: OECD Economics Department Working Paper 1515

"[Our] main recommendation is to avoid overlap as a matter of principle as it inhibits the market effectiveness of the EU ETS"

- International Emissions Trading Association

California Cap and Trade

- 40% below 1990 levels by 2030
- 334m cap in 2020
- \$6.5bn state revenue in 2017
- CaT is 'back-stop' to quilt of overlapping policies:
 - Renewable Portfolio Standard
 - Energy efficiency Programs
 - Low Carbon Fuel Standard (~\$200/ tCO2)



Source: California Air Resources Board (CARB)

"the best designed program in the world" – Dallas Burtraw, Resources for the Future

"the real threat to the program is we get to a high price level and have apolitical crisis" - Severin Borenstein, Prof Haas Business School



Corporates Internal Carbon Pricing

Energy

- 1,400 companies, \$7Tn annual revenue
- 150 companies in 2014
- Higher price than regulated markets
- What objective?
 - Identify opportunity
 - Pre-empt policy
 - Risk stress testing
 - Satisfy investor pressure

	OMV AG	Austria	
	Neste Oyj	Finland	
	Total	France	30.00-40.00
	MOL Nyrt.	Hungary	
	Eni SpA	Italy	47.53
	Royal Dutch Shell	Netherlands	40.00
	Vopak	Netherlands	47.53
	Aker BP ASA	Norway	
	Statoil ASA	Norway	50.00; 59.00
	Galp Energia SA	Portugal	40.00
	PJSC Gazprom	Russia	
	Compañía Española de Petróleos, S.A.U. CEPSA	Spain	
	Repsol	Spain	15.00
	Lundin Petroleum	Sweden	50.00
-	Premier Oil	United Kingdom	
	Tullow Oil	United Kingdom	40.00

Source: Carbon Disclosure Project (CDP), 2017

"it's not just the price, its how you use" - Albzeta Klein, Director IFC

The 'Real' Challenge

- Companies are designed to optimise profits
- Science has the burden of proof
- Rational man is not rational society
- Democracy moves to social media mentality

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Source: www.sparkchange.io / UN Environment Programme 2017 Emissions Gap Report

"Losing Earth: The decade we almost stopped climate change" – Nathaniel Rich, NY Times





Thank you for your time!

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