

G7 Coal Scorecard: 2016 update

Pre-G7 International Symposium:

Climate Change and Energy: Coal-fired power generation

20 May 2016, Tokyo

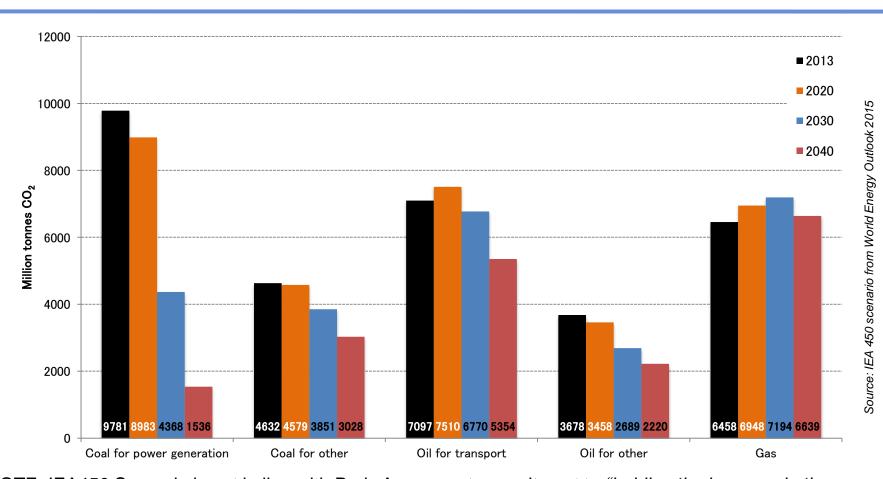
Why Coal?



- Coal-fired power generation is single largest source of CO₂ emissions globally.
- Pollution from coal production and power generation is a major cause of poor health and environmental damage: coal cannot be 'clean'.
- Reducing coal use in power generation is quickest and cheapest way to reduce CO₂ emissions.
- Clean technology alternatives are available.

Reducing coal use is key to meeting climate change objectives





NOTE: IEA450 Scenario is not in line with Paris Agreement commitment to "holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C". So the CO₂ reductions shown above will need to be exceeded.

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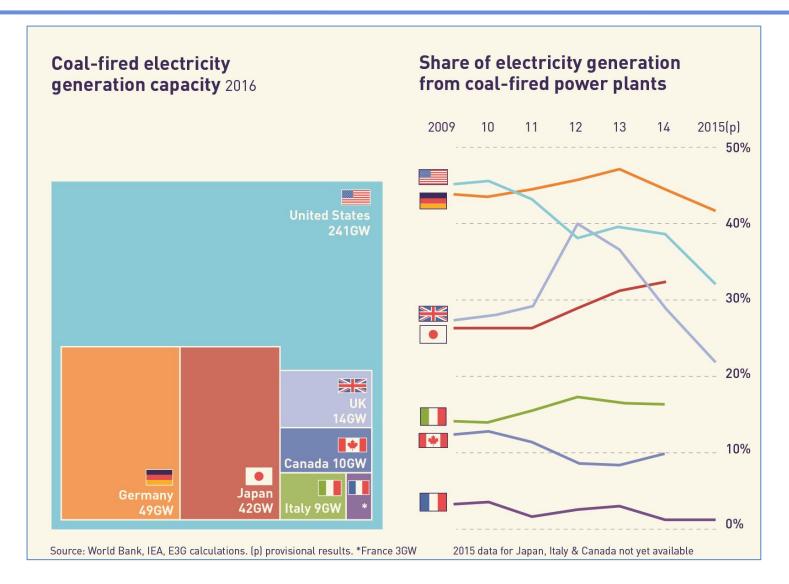
Why G7?



- G7 members have benefited from using coal.
- As international leaders they have a responsibility to accelerate action on climate change: both through their domestic efforts and international influence.
- G7 members have different levels of coal use in power generation. By reducing coal use they can provide different models for other countries.
- E3G published scorecard report in October 2015 to provide a benchmark of G7 performance on coal.
- Today: What has happened in past six months?

G7 Coal: capacity and generation





Scorecard Components: market dynamics and government policies

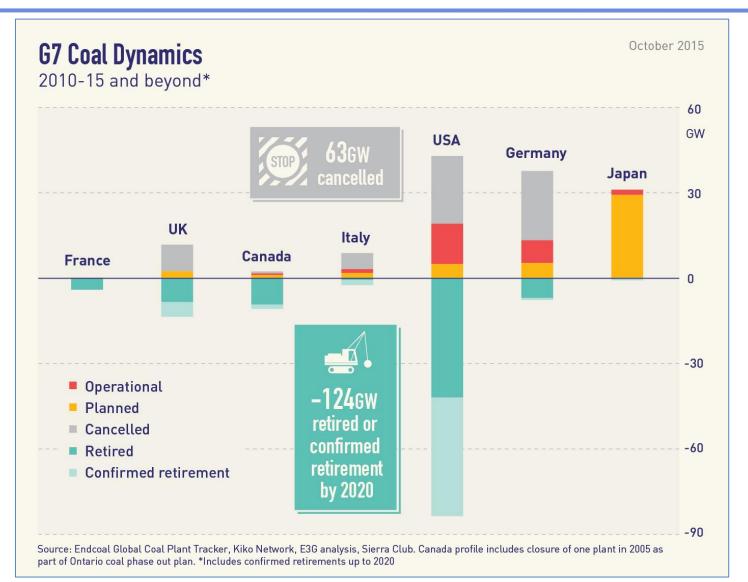


- 1. Is there a risk of new coal power plants being constructed?
- 2. Are existing coal power plants being retired?
- 3. Do country actions have a positive international impact?



October 2015: G7 Coal Dynamics: 2010-15 and beyond





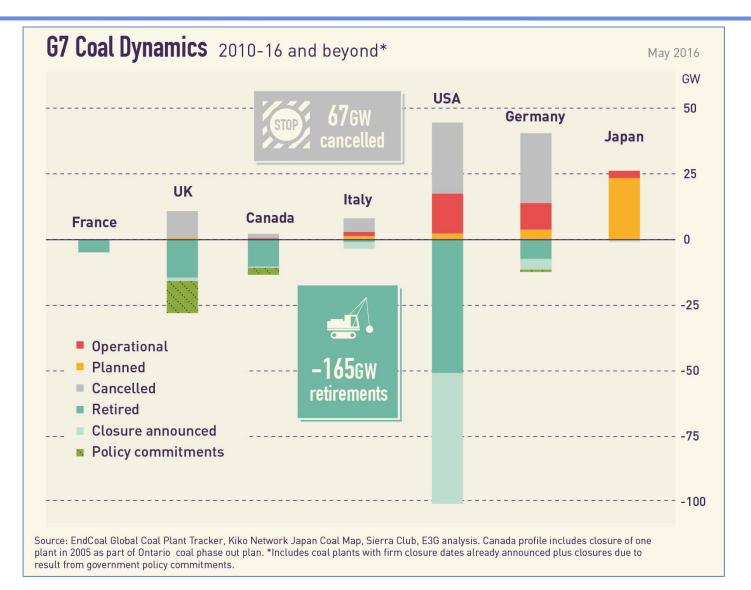
Key finding from October 2015: Japan is isolated among G7 peers



- Japan is the only G7 country still seeking to build new coal power plants
- In all other G7 countries the pipeline of new coal power plant developments has been turned off.
 - Germany has some coal power plants finishing construction now after being permitted in 2007-09, but they are all losing money.
- All other G7 countries are considering how to speed up the closure of existing coal power plants.

May 2016 update: G7 Coal Dynamics: 2010-16 and beyond





What is new since October 2015?



- Total cancelled projects now = 67GW. +4GW
- Total retirements now = 165GW. +41GW
- Retirements charts now include a new category of 'policy commitments':
 - UK commitment to Coal Phase Out by 2025
 - Policy paper expected soon.
 - 4GW of coal power plant capacity already closed in 2016
 - Province of Alberta, Canada commitment to Coal Phase out by 2030
 - Alberta is home to half of Canada's coal plants, and coal is currently majority source of electricity generation

Coal scorecard comparison: Oct 2015



Coal	scorecard comp	arison					Octob	er 2015
G7 co	G7 coal phase out progress							
	or performer	Risk of new coal		Plant retirements		International impact		
	eds improvement ear progress	Market drivers	Government policy	Market drivers	Government policy	Private sectoractions	Government finance	
•	Canada	*	~	-		×	×	
	France	~	-	_	-	-	~	
	Germany	-	-	×	×	*	×	
	Italy	-	-	-	*	-	×	ŧ
	Japan	-	×	×	*	×	×	sses if ent
	UK	~	~	-	-	*	-	Source: E3G asse
	USA	~	~	~	✓	×	~	Source

Coal scorecard comparison: May 2016





G7 ranking: October 2015



Countries ranked good to bad by action to phase out coal power An aggregate ranking of G7 country performance towards phase out of coal power. Each country shows six scores, weighted across three progress indicators.								
		Clear progress	Needs improvement	Poor performer	Performance summary			
1 st	USA	5	0	1	Policy efforts capitalising on market dynamics. Strong international leadership			
2 nd	France	2	4	0	Political direction impacting internationally. Needs to complete domestic phase out			
3 rd	UK UK	2	3	1	Ageing power plants are ripe for retirement. Political interest but policy incoherence			
4 th	Canada	2.5	1.5	2	Ontario has shown the way. Albert set to follow. Federal efforts can be accelerated			
5 th	Italy	0	4	2	Enel moving but must prioritise coal phase out. Government need to get a grip			
6 th	Germany	0	2	4	Climate leadership undermined b coal lobby influence on policy and international finance			
7 th	Japan	0	1	5	Worst performer in every category. Must turn off the tap of new coal plants			

G7 ranking: May 2016



G7 ranking: coal phase out Countries ranked good to bad by action to phase out coal power An aggregate ranking of G7 country performance towards phase out of coal power. Each country shows six scores, weighted across three progress indicators. Change compared to October 2015.								
	, ,		Change	Clear progress	Needs improvement	Poor performer	Performance summary	
1 st		USA	-	5	0	1	Over 100 GW of retirements.	
=2 nd		France	-	2	4	0	Strong international leadership prior to Paris.	
=2 nd		UK	0	3	2	1	UK 2025 coal phase out commitment made, now policy delivery required. Ageing plants retiring.	
4 th	•	Canada	•	2.5	2.5	1	Alberta 2030 phase out commit- ment a major step forward. Needs to be matched at federal level.	
5 th		Italy	-	0	4	2	Political rhetoric must result in firm commitments and a phase out plan.	
6 th		Germany	•	0	3	3	Starting to consider phase out timeframes. Initial retirements planned but insufficient.	
7 th	•	Japan	-	0	1	5	Needs to address new coal plant risk, both at home and abroad.	

Conclusions



- Positive dynamics in favour of a proactive transition away from coal power generation in 6 of the G7.
- Governments (national, provincial, state) are making policy commitments that will further accelerate these trends.
- But Japan remains isolated among its peers.
- Banks and utilities are starting to restrict finance flows and close (or sell) coal power plants.
- Will Japan strictly control its international coal finance and export credits?

Many thanks



Chris Littlecott

Programme Leader - Fossil Fuel Transition & CCS

E3G - Third Generation Environmentalism

chris.littlecott@e3g.org

Twitter: @chrislittlecott

Canada





France





Germany





Italy





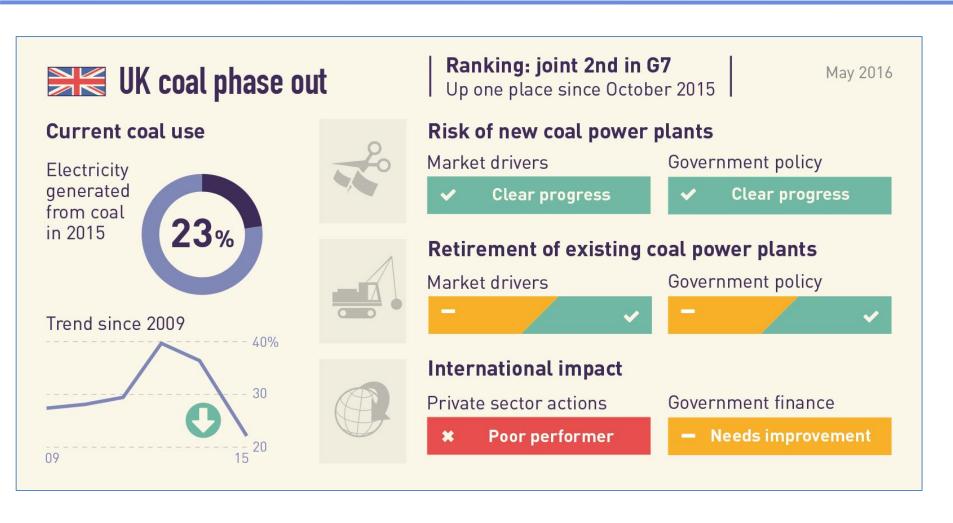
Japan





UK





USA



