

JOBS AFTER COAL

**A JUST TRANSITION
FOR NEW ZEALAND
COMMUNITIES**



WHO IS CANA?

COAL ACTION NETWORK AOTEAROA

A nation wide group of volunteers...

Working towards a coal-free Aotearoa by 2027

Website: coalactionnetworkaotearoa.wordpress.com

COAL IS A SUNSET INDUSTRY

“After 110 years of mining, the easy coal is gone”

Don Elder, CEO Solid Energy, 2012

COAL IS A SUNSET INDUSTRY

Market Prices
Have Collapsed

China Producing
Less Steel

Solid Energy Job
Layoffs

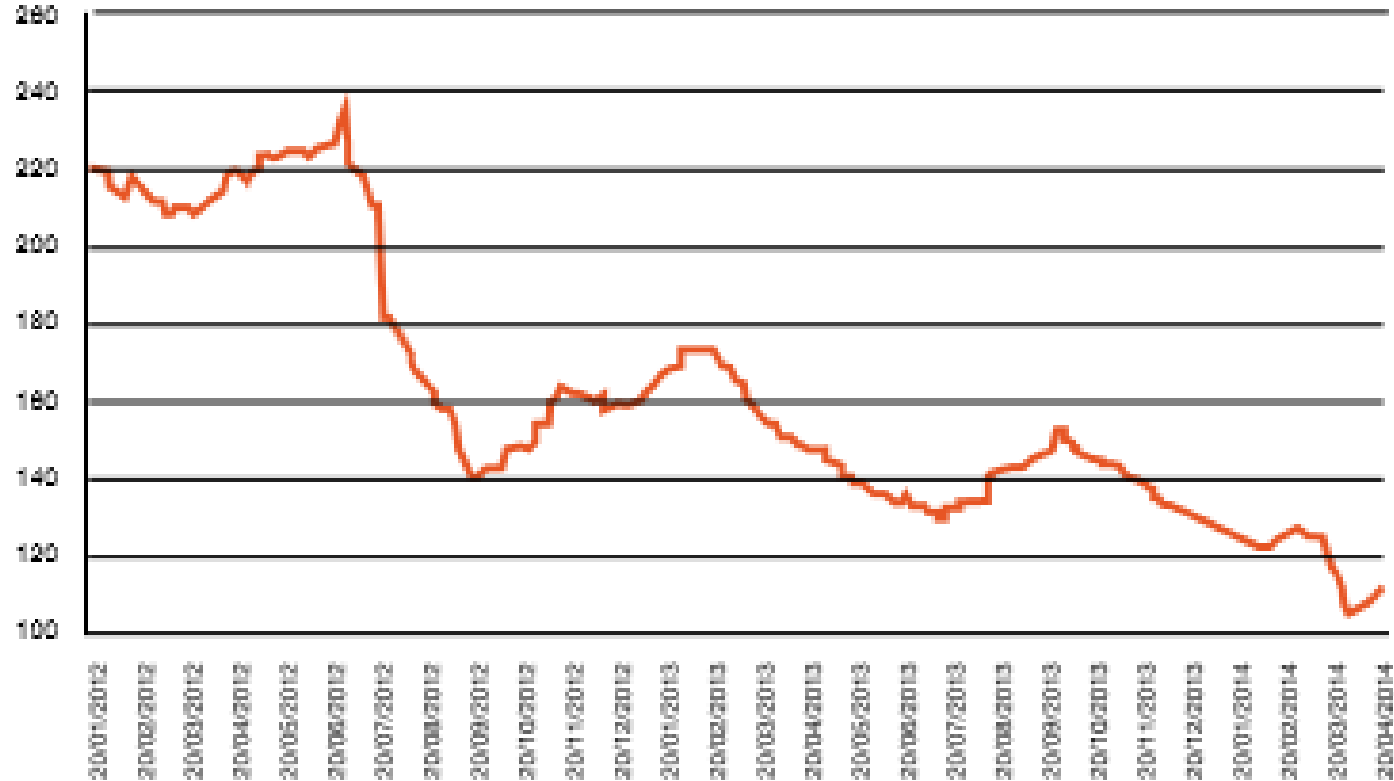
Health Effects

Renewables Cost
Less

Climate Change -
The Carbon Bubble

COAL IS A SUNSET INDUSTRY

COKING COAL - WWW.MACROBUSINESS.COM.AU



COAL IS A SUNSET INDUSTRY

“Further investment {in metallurgical coal} is much less likely as the record prices we experienced over the past decade....will not be there ... over the next 10 years”

- BHP Billiton

“The carrying value of our coal assets is likely to remain low for some time as we expect international export prices will remain depressed in the short to medium term”

- Mark Ford, Chair, Solid Energy

COAL IS A SUNSET INDUSTRY



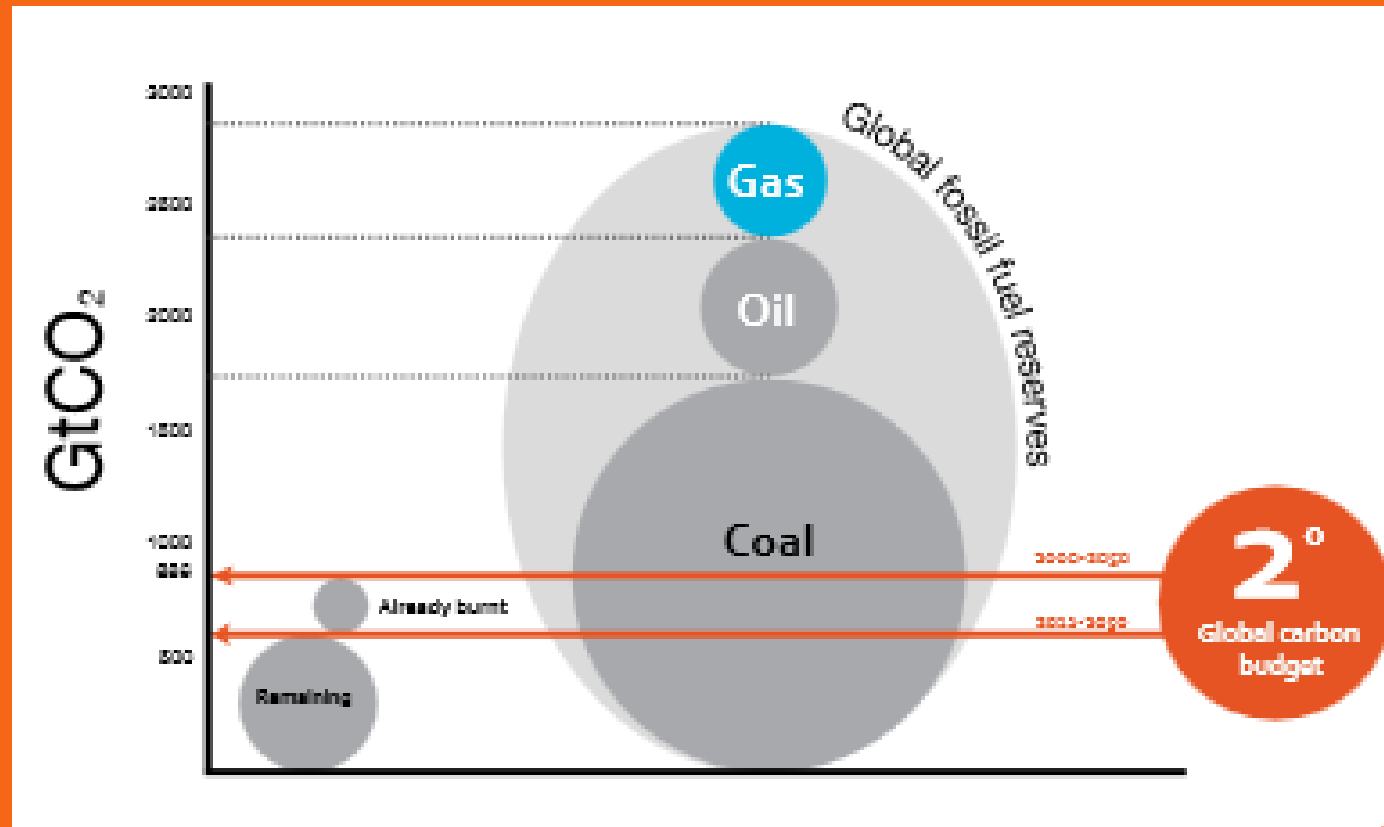
COAL IS A SUNSET INDUSTRY

Coal overtaken by renewable energy:

In 2013 the US solar industry employed more people than coal and gas combined. (Greenbiz.com 21/1/14)

COAL IS A SUNSET INDUSTRY

The Carbon Bubble, The Carbontracker 2012 Report



WHAT DOES COAL MEAN TO NZ?



WHAT DOES COAL MEAN TO NZ?

5MT/y mined - 60% exported

WHAT DOES COAL MEAN TO NZ?

1259 Total Jobs

(May 2014)

Region	Numbers
West Coast	836
Waikato	213
Southland	106
Canterbury	92
Otago	12
Total	1259

TABLE 1: ECONOMIC WELLBEING OF COAL MINING COMMUNITIES, 2013 CENSUS

NZ median income	2013	\$28,500
NZ unemployment %2013 15y+	2013	4.5%
NZ Full Time Jobs %	2013	45.60%

Economic Zone	Population	Median Income	\$ vs district	Unemploy-ment %	UE vs district	Full Time Jobs %	FTJ vs district
Huntly East	3174	\$22,800	-\$5,100	6.0	1.3	38.0%	-7.0%
Huntly West	1923	\$19,100	-\$8,800	12.0	7.3	30.0%	-15.0%
Waikato region	316155	\$27,900		4.7		45.0%	45.0%
Reefton	852	\$24,600	-\$600	2.4	-0.6	43.6%	-1.0%
Westport urban	3222	\$24,600	-\$600	3.1	0.1	42.5%	-2.1%
Westport Orowaiti	606	\$30,900	\$5,700	2.0	-1.0	50.7%	6.1%
Granity	198	\$21,500	-\$3,700	6.0	3.0	30.3%	-14.3%
Hector-Ngakawau	198	\$22,000	-\$3,200	4.6	1.6	36.9%	-7.7%
Buller District	8514	\$25,200		3.0		44.6%	44.6%
Greymouth-Blaketon	765	\$25,800	-\$800	3.9	0.5	46.2%	-0.4%
Greymouth-Cobden	1305	\$20,400	-\$6,200	5.0	1.6	36.7%	-9.9%
Greymouth Central	543	\$21,000	-\$5,600	3.8	0.4	37.0%	-9.6%
Greymouth South	2310	\$28,100	\$1,500	2.6	-0.8	44.4%	-2.2%
Grey District	10713	\$26,600		3.4		46.6%	46.6%
West Coast region	26001	\$26,900		3.0		47.0%	47.0%
Kaitangata	610	\$28,900	-\$1,000	4.4	2.1	50.0%	-1.1%
Clutha District	13386	\$29,900		2.3		51.1%	51.1%
Ohai	228	\$17,100	-\$16,800	5.2	3.3	25.0%	-30.4%
Nightcaps	249	\$18,700	-\$15,200	3.6	1.7	33.7%	-21.7%
Southland District	23	\$33,900		1.9		55.4%	55.4%
Mataura	1179	\$23,100	-\$5,700	5.0	2.5	42.2%	-5.8%
Gore District	9624	\$28,800		2.5		48.0%	48.0%

**COAL
DOES NOT
BRING
PROSPERITY**

WHAT CAN WE DO INSTEAD?

For an Energy Source?

For the NZ Economy?

To Employ Miners?

Prosperity for Coal Communities?

REPLACING COAL FOR ENERGY

Electricity

- Geothermal
- Wind
- Domestic Solar

Boilers, Steel

- Wood Waste

WOOD

**The Big Neglected
Opportunity**

A LOW CARBON ECONOMY

Energy Efficiency

Renewable Energy

New Timber Products

Public Transport

Housing

Conservation

Horticulture

EVERYONE'S DOING IT!



PWC: NZ \$22B/y

WHAT COULD GOVERNMENT DO?

Price carbon

Procurement

Increase R&D

Shift
Transport
Priorities

Wood First
Strategy

WHAT ABOUT THE MINERS?

Many Skills are Transferable:

Christchurch Rebuild

Quarrying

Building Earthworks

New Timber Products

Wood Waste Recovery and Transport

Renewable Energy E.G. Geothermal

CAN'T WE DO BOTH?

Alternatives will emerge only when we price carbon and commit to keeping the coal in the ground.

A JUST TRANSITION

Process Must
Include Everyone

Business

Unions

IWI

Councils

NGOS

Polytechs

Central Govt

GOVERNMENT MUST HELP



Local leadership is essential to develop plans

WHO ELSE HAS DONE IT?

Orkneys

Nord Pas de Calais

RECOMMENDATIONS

- Increase Royalties to Fund Transition
- Set up Unit to Assist Communities
- Price Carbon Properly
- Increase R&D, Prioritise Low Carbon
- True Cost Pricing for Government Contracts
- Prohibit New Coal Mines

WHERE TO FIND THE FULL REPORT

www.coalaction.org.nz