



Air Quality in Southland

Wood Energy South Launch – 30 October 2014



Overview of presentation



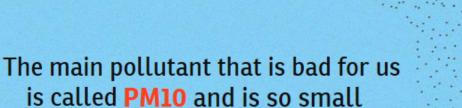
Government Legislation

"The Minister for the Environment is responsible for recommending national environmental standards to guarantee a set level of protection for the health of all New Zealanders.

Regional councils and unitary authorities are in turn responsible for ensuring that national standards are met in their regions. "

National Air Quality Compliance Strategy to Meet the PM₁₀ Standard

Health impacts



we can't even see it.

In winter, PM10 reaches very high levels.



Key issue – Domestic heating

Invercargill

92%



Gore

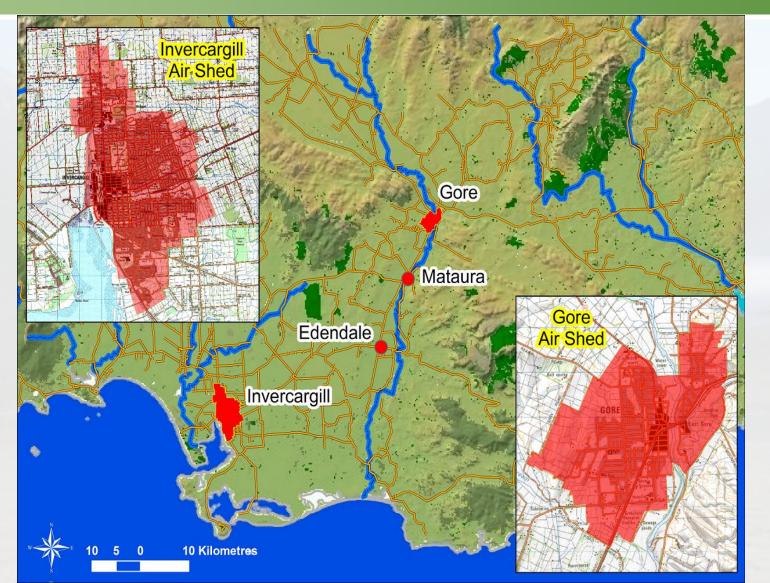
96%



Result – Air Pollution

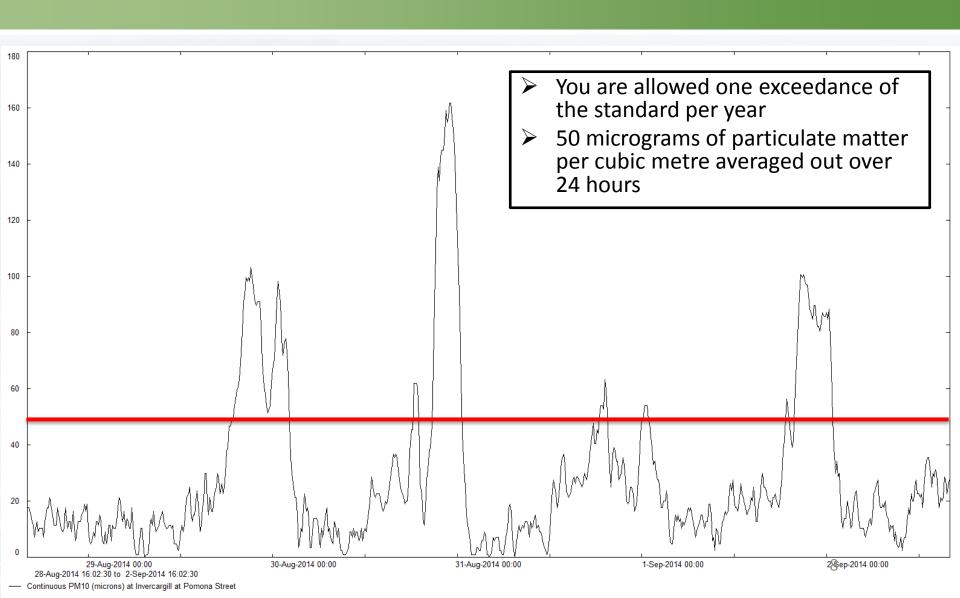


Gazetted Airsheds in Southland



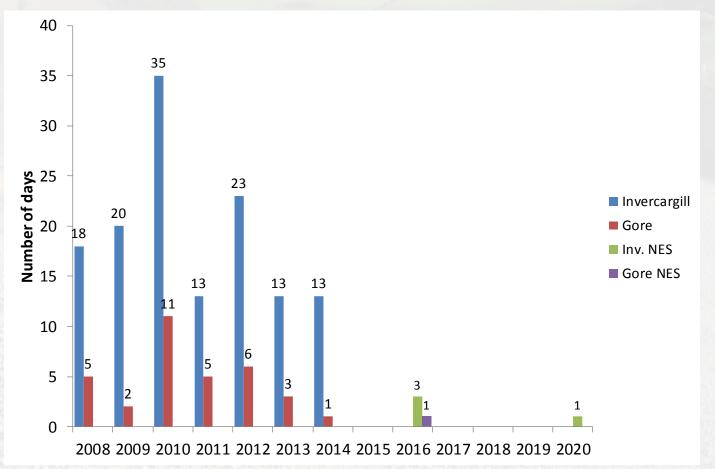


Monitoring – What is the standard?



How bad is it? - Exceedances summary

Figure 1: Number of days when exceedances occurred in Invercargill and Gore, 2008 to 2014 (as at 3 Sept). NES targets for each airshed are also shown.







Southland's Air / Ngā Hau o Murihiku

State of the Environment Report





Social implications – Who's affected?

Poor Air Quality from burning wood and coal to keep warm NES is developed by Govt to improve air quality and reduce health effects Regional
Councils and
Unitary
authorities
required to
implement
NES

Burning appliances are regulated to improve air quality Significant costs are placed on households that many cant afford

Peoples
health is at
risk due to
not being able
to afford
compliant
heating



Balancing Act

We all want clean air and to stay warm

I can't afford to change What if there's a power cut?

I like my fire I don't want to be cold





The Consequences

Improving air quality at a social cost...

What assistance is available?

- EECA
- Southland Warm Homes Trust
- Invercargill City Council Pilot Loan Scheme
- Discussions with Gore District Council

Is that sufficient, what more could we do?



Change – What are we doing?

Regulate



Educate



Rules – Domestic Heating Invercargill and Gore Airsheds

Permitted - New installations

- NES Approved wood burners
- Liquid or gas burners
- Pellet fires
- Heat pumps



Rules – Domestic Heating Invercargill and Gore Airsheds

Prohibited – New installations

- Multi fuel burners
- Any other burner that is not on the NES approved burner list

Rules – Domestic Heating Outside the Airsheds

Permitted – New installations

- NES Approved wood burners (<2ha)
- Multi fuel burners
- Liquid or gas burners
- Pellet fires
- Heat pumps

Rules – Domestic Heating Invercargill and Gore Airsheds

EFFECTIVE FROM	NEW RULE
1 September 2015	The use of open fires is prohibited.
1 January 2016	The use of any non-approved burner/boiler installed before 1 January 2001 is prohibited.
1 January 2021	The use of any non-approved burner/boiler that was installed between 1 January 2001 and 1 September 2005 is prohibited.
1 January 2025	The use of any non-approved burner/boiler that was installed between 1 September 2005 and 1 January 2010 is prohibited.
1 January 2029	The use of any non-approved burner/boiler that was installed between 1 January 2010 and 6 September 2014 is prohibited.

Rules – Domestic Heating Prohibited Fuels – Southland wide

What you CAN burn for home heating

- Dry wood wood that's been drying for approximately 9–12 months and stored/stacked correctly
- Low sulphur content coal talk to your coal supplier for advice

What you CAN'T burn for home heating

- Wet wood wood that has been drying for less than 9 months and/or not stored correctly
- High sulphur content coal talk to your coal supplier for advice
- Chemically treated timber such as fence posts and some building materials
- Painted and varnished timber
- Household rubbish and plastics
- Waste oil



Rules – Outdoor Burning Invercargill and Gore Airsheds

Outdoor Burning in Winter

From 1 May 2015, you will no longer be able to burn outdoors in the Invercargill and Gore airsheds during winter (1 May to 31 August), except for:

- Cooking e.g. barbeques
- Outdoor fireplaces no bigger than 1m², including braziers

Rules – Outdoor Burning Southland wide

What you CAN burn outdoors

- Vegetation
- Paper
- Cardboard
- Untreated wood

What you CAN'T burn outdoors

- Chemically treated timber such as fence posts and some building materials
- Painted and varnished timber
- Household rubbish and plastics
- 😠 Waste oil



Agrichemicals and Fertilisers

Agrichemicals and Fertilisers

Agrichemicals must be prepared according to manufacturer's instructions and applied at the recommended concentration and application rates. Application must be undertaken so that agrichemicals do not spray or drift onto any adjoining property.

The discharge of fertiliser to air is a permitted activity, provided there is no fertiliser drift within 30 metres of a residential unit or over any property that is:

- organic (registered or certified)
- an orchard where there is fruit present.

Stage 2 – Industrial and Commercial

2015

 To begin once decisions are made on Stage 1

From 2016

 Review and update existing framework and provisions

From 2016

 Consultation with stakeholders to identify right approach for Southland