

Emission characterisation, interventions and community response in the face of health related evidence

Owen West Air quality scientist



Acknowledgements







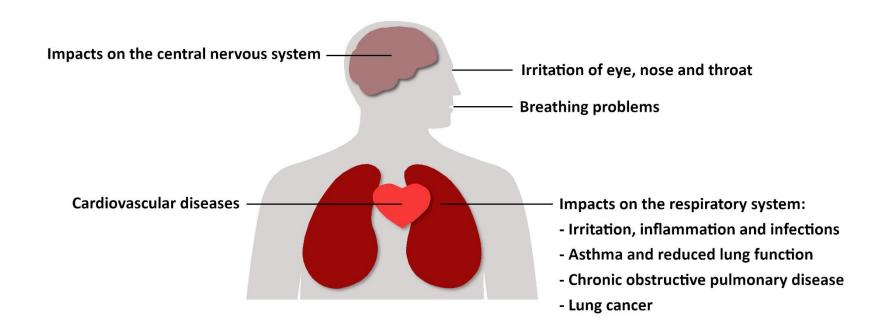


Key messages

- We have the power to make a change
- Regulation alone won't get us there
- Information ≠ behavioural change



Background



Results

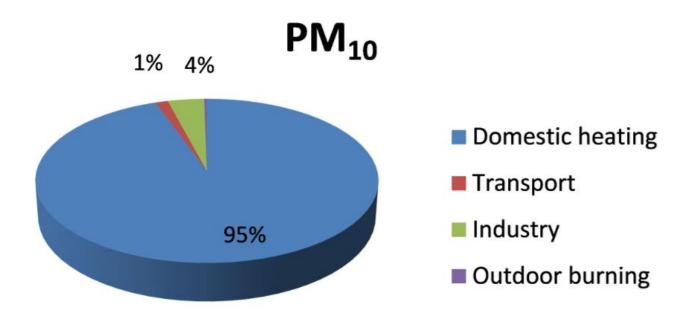


Figure 1: Relative contribution of human caused sources to daily winter PM_{10} emissions in Invercargill (Wilton, 2015).

Results

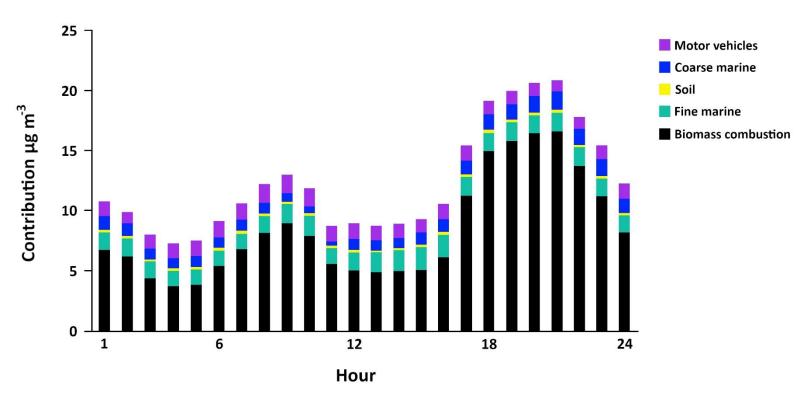
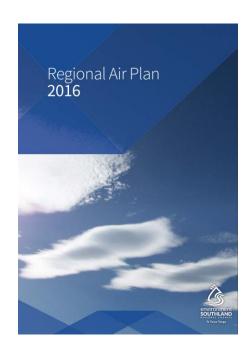
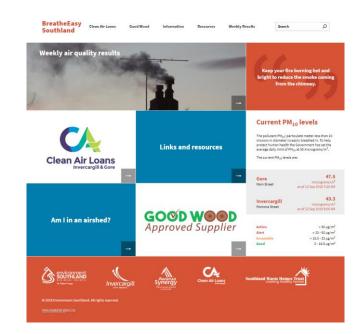


Figure 2: Average hourly source contributions to PM_{10} in Invercargill (adapted from Ancelet et al, 2015).

Interventions







Pilot Project

"It's my right to burn"

"It's someone else's problem"

"Fires are nicer than heat pumps"

"Fear of change"

"Comfortable with what I know"

"Coal is cheap"

"Affordability"

"I'm in a renta]"

"My neighbour is worse, pick on him"

"It's always been that way"

"Not my problem – my fire burns cleanly"

Conclusions

- We know the source of our PM₁₀ problem
- Regulation alone will not provide the solution
- We are beginning to understand community response



Behavioural change

- How do we get individuals to consider others?
- What motivators are required?
- Will the method be universally applicable?

