

## SIG Research Priorities

<b>DATE</b>	As at 1 June 2015	
<b>SIG:</b>	National Air Quality Working Group	
<b>SIG CONTACT:</b>	Lauren Jones	
<b>RESEARCH PRIORITIES</b>	Ranking	Priority
	1	Influencing behaviour/barriers to change: determine how to best influence perceptions and behaviour of householders and identify the barriers to adopting clean heat, including how they can be overcome.
	2	PM2.5 and health impacts: review the state of knowledge of PM2.5 impacts and its sources in NZ and establish what guideline, standard or policy NZ should have to address the impacts of PM2.5.
	3	PM2.5 information gaps: review PM2.5 monitoring in NZ and what it tells us, and determine the relationship between PM2.5 and PM10 (how it changes with location, season and sources).
	4	Understanding anthropogenic contributions: review the cost-effectiveness and reliability of emission inventories and modelling as evaluation methods, and identify if better methods linking emissions to concentrations exist.
	5	NEMS: establish standard air quality monitoring and QA procedures to achieve national consistency in measurements.
	6	Understanding and quantifying management responses: develop tools to accurately track progress towards our goals in a nationally consistent manner.
	7	Emission factors and uncertainty: quantify uncertainties associated with emission factors used in emission inventories and assess whether low emission burners deliver predicted reductions in PM10 (lab versus real life).
	8	N: identify/produce affordable, reliable alternatives to standard methods for HAPs and develop networks of low-cost sensors for measuring spatial variability.
	9	Technological solutions to improve air quality: develop improved emissions control for home burners and investigate the broader infrastructure/energy/climate change solutions to manage contaminants.
	10	Source dependent health impacts: analyse the impacts of different contaminant mixes on health in NZ and assess whether the NES adequately protects human health.
11	Natural sources: quantify contributions from natural sources and establish what constitutes exceptional events involving natural sources.	
<b>OTHER INFORMATION:</b>	<p>"NAQWG Research Strategy – Ranked Priorities May 2015"</p> <p>"NAQWG Research Strategy for Air Quality Management" (Aug 2012)</p>	