

**Doctors for the
Environment
Australia**

ANNUAL REPORT

2012



www.dea.org.au

Doctors for the Environment Australia

Promoting health through care of the environment

Chair's Report

Preamble

Since the last Annual General Meeting of DEA, newspaper headlines have continued to give their stark messages. They print that the Earth is now the hottest for a thousand years, that Western Australia's heatwave was the worst for 115 years and that crops had failed for several years in a row, that rising salinity was still encroaching on agricultural land, that the Eastern States had oscillated between droughts and floods and the Barrier Reef was under further threat, that hurricanes are battering the Gulf States again and bushfires are out of control in Spain and USA, and that the arctic ice is melting at an unprecedented rate.

The list is seemingly endless and underpinning these reports there is solid scientific evidence that these changes are related to the burning of fossil fuel at increasing rates. Australian and global efforts to institute effective measures to control these emissions sufficiently remain woefully inadequate.

Positive signs

In spite of the gloom, there are some signs that are more hopeful. Throughout Australia, within Europe, China and India, even within the climatically polarised USA increasing numbers of concerned individuals are becoming better informed and more vocal. The same could be said of many people in other countries.

They are taking individual actions to reduce their own carbon footprint and will become more emboldened to demand action from their legislators. Today's youth will be in the vanguard of this enlightenment.

Innovations in alternative energy sources are continuing to be researched and developed. Funding them remains a challenge.

In spite of the very troubled political road to reach its objective, and the compromises which have occurred subsequently, Australia has now legislated a carbon pricing mechanism linked to Europe. The strategy can be debated. The need for action remains indisputable.

Universities and various other scientific organizations are presenting the evidence more lucidly and more forcefully as that evidence becomes increasingly powerful and the need for effective action becomes more urgent.

For example the Institute of Advanced Studies of the University of Western Australia is currently running a series of very well attended high quality public lectures around the science of climate change and the psychological and legislative difficulties associated with it.

The most recent of these was entitled: Climate Change: Will we cope? It was delivered by Professor Chris Rapley CBE, Professor of Climate Science, University College London. His stated interests were in Earth system science, climate change and in the organisation, leadership and communication of these subjects. The lecture was superb in content and delivery to a diverse audience.

He stated that, as a physical scientist, his role is to present the scientific evidence as convincingly as he can but not to delve into the areas of policy, of advocacy or of activism. To do so, he claims, would be to link him too strongly to those who argue passionately for various policy positions and potentially could reduce his role and his authority as a pure scientist.

When I challenged him with the specific example of the medical evidence linking asbestos with the deadly lung diseases of asbestosis and mesothelioma, with the company running the Wittenoom blue asbestos mine and the government of the day choosing to ignore that evidence, and that it would have been irresponsible for the medical fraternity if they had not become increasingly active in demanding government action, he stated that medical scientists and medical practitioners are more likely to be trusted by the community and by governments than physical scientists tend to be and that strong evidence based advocacy by them will at times be necessary and less likely to be counterproductive.

If he is correct in that assessment, then it means that an organisation like DEA does have a huge responsibility to the community and it should be an additional spur to intelligently and diligently pursue its stated objectives.

DEA activities

During the past year, policy updates have been written for Coal, Forests and Nano-technology and work is underway on redrafting policy on Climate Change; a huge task because of its complexity and its scope.

Led by Eugenie Kayak, Marion Cary, Dimity Williams and their DEA colleagues in Victoria; a legal challenge to coal fired power plants in that state did have a major impact on the proposed further development. Dimity and colleagues have been active in the Tasmanian Tarkine Forest debate. David Shearman and his South Australian DEA supporters have been lobbying hard and effectively on the Port Augusta power supply issue. Helen Redmond, Linda Selvey, Peter Tait and Ben Ticehurst have been in the thick of the debate regarding coal seam gas exploration and extraction in NSW and in Queensland.

David King keeps us abreast of some of the issues regarding the massive expansion of coal mining in Queensland including its local effects, the impact upon the Great Barrier Reef and other marine life as well as the global greenhouse gas burden which it is undoubtedly causing.

DEA colleagues like Bill Castleden added their voices in successfully opposing a new coal mine in the Margaret River region of Western Australia. George Crisp and DEA colleagues have spoken at various public meetings in Perth and the Mid West region on the issue of unconventional shale gas exploration and extraction using the fracking process. The WA

Minister for Mines and Petroleum has now agreed to provide greater transparency about the chemical agents used in the fracking process. The monitoring of the health impacts of fugitive emissions and the potential contamination of the Perth aquifer remain matters of concern.

Other health concerns linked to environmental exposure have also been addressed by DEA during the year. The challenge is to focus on key areas because of our limited numbers and financial and physical resources. Ben Ticehurst has given valuable service through the web site and the member survey. Hakan Yaman has the challenging task as Treasurer of guiding our finances and we are grateful to him for doing so.

Student members Rohan Church, Jenny Helsing and Anna Norris ran an excellent iDEA Conference in Brunswick in April 2012 and have provided great service to DEA during the year. Aaron Tracey has also done so after taking over from Rohan in April. The student membership has grown much faster than that of qualified doctors.

DEA members have continued to lobby politicians, write articles, appear in radio broadcasts and engage in public debate.

The individual, corporate and governmental barriers to addressing difficult issues which will require modification of behaviour at all levels are great. Short term self-interest is a powerful motivator and a long term view of our country and our planet does not come easily. The modern day version of the Flat Earth Society knows how to recruit members readily.

Finally, I wish to give the greatest credit to David Shearman and Joy Oddy for their tireless work during the year. The organisation has placed an unfair burden upon them and the load will need to be shared more evenly in the future.

Professor Kingsley Faulkner AM
Chair
Doctors for the Environment Australia

Climate change and health

This continues as the focus of our activities. Ten years ago it would have been impossible to believe that the understanding of this major threat to humanity would be bedevilled to such an extent by mischief, subterfuge, denialism and divisive party politics. Consequently it has become increasingly difficult to deliver a scientific and health message even within the medical profession.

www.climatespectator.com.au/commentary/healthy-climate-change-battle

Whilst we have continued to deliver our climate change message to those who will listen, for example professional and some community groups, we have had to continue to develop policies which benefit other aspects of health and at the same time act to reduce greenhouse emissions.

These co-benefits exist by reducing air pollution from coal mining and combustion, by controlling the expansion of unconventional gas and by promoting health alternative sources of energy, wind and solar.

www.theconversation.edu.au/something-in-the-air-time-for-independent-testing-in-coal-areas-5763

We believe we have been very successful in having an impact on these issues and indeed we have carried the torch for the medical profession; for the contribution of others has been and is still lacking. We commend the many members of DEA who have helped with this cause. The size of this contribution is evident in the publication lists, lectures and press contributions.

Action on fossil fuels, coal and coal seam gas

In the cold light of reality the harm to human health from fossil fuels must be seen alongside that resulting from tobacco. With fossil fuels the medical profession is pitted not only against powerful industry resolve but against governments which deny the facts and are dependent on revenue. DEA recognises that when the energy source feeds the nation its constraint has to be based on local strategy and community harm rather than big national campaigns. With these thoughts in mind DEA has worked opportunistically and with other experts to make advances. DEA is intent on using legal help when government agencies transgress the law or regulations and to take action when communities are subjected to health impacts.

The scientific basis for our action is detailed in the "DEA Position Paper on the Health Impacts of Coal" www.dea.org.au/images/general/Briefing_paper_on_coal_2011.pdf and the public health case has been put to the profession in an article by Helen Redmond in the Medical Observer www.medicalobserver.com.au/news/coal-powered-energy-is-a-public-health-issue.

In 2012 the VCAT (Victorian Civil and Administration Tribunal) action in Victoria and the Port Augusta campaign in South Australia best illustrate how our multifocal strategies can bring some success.

DEA opposition to the Dual Gas project at the Victorian Civil and Administrative Tribunal (VCAT)

DEA has been involved in a landmark hearing at VCAT, opposing the Victorian EPA's approval of a new brown coal fuelled power plant for Morwell, Victoria.

www.reneweconomy.com.au/2012/are-we-to-remain-in-a-dirty-industrial-revolution-28066

This proposal, the Dual Gas Demonstration Project (previously named HRL), although promoted as being environmentally friendly was predicted to have greenhouse gas emission intensity approximately equivalent to a black coal power station when supplemented by natural gas.

DEA embarked on this legal path, as did others, due to our concerns for the local health impacts resulting from coal combustion and the wider global health implications of greenhouse gas emissions and subsequent climate change.

Although VCAT approved the Dual Gas Demonstration Plant, the tribunal placed several stringent conditions on the plant. These included a 90% reduction in sulphur dioxide emissions (in line with industry best practice elsewhere in the world), as well as the closure of an equivalent amount of power generating capacity from older Latrobe Valley power plants. These conditions were strongly argued for by DEA (if the plant was to proceed) at VCAT and we are proud of their inclusion in the final outcome. Since the VCAT decision was announced in late March 2012, Dual Gas ceased work on the project citing 'considerable uncertainty' in meeting the conditions imposed by VCAT and the federal government has withdrawn its \$100 million grant to the project. Hence it is exceptionally unlikely that this new coal plant will proceed.

The VCAT proceedings were significant on several fronts including; DEA's (a health advocacy organization) granting of 'standing' to challenge the case in a 'court of law'; that DEA participated in one of the largest cases ever brought before VCAT and; that it was possibly the first time a health organization has legally opposed a new coal power plant due to health concerns in Australia if not globally.

DEA's involvement would not have been possible without the dedicated pro bono support from barristers Jane Treleaven, Matthew Townsend and Rudi Cohrssen and Maurice Blackburn's Social Justice Department, in particular Elizabeth O'Shea, and PILCH.

Port Augusta (SA) coal fired power stations

Port Augusta, a town of 15,000, has been subjected to decades of pollution from brown coal fired power stations www.reneweconomy.com.au/2012/solar-thermal-can-cure-what-ails-port-augusta-14147. DEA analysed both the pollution data to show its message had been "overlooked" and the health impacts, cancer of the lung and asthma had been dismissed.

The data was displayed on the DEA web site

www.dea.org.au/news/article/illness_and_pollution_at_port_augusta_dea_speaks_at_the_parliament_of_south

These messages were conveyed personally by DEA South Australian Committee members to most of the state's members of parliament and they were addressed in detail at a Parliamentary briefing.

The medical seeds of this campaign have blossomed with several national and local groups joining in. Coal burning has stopped and the campaign now concentrates on the replacement using solar thermal with storage as advocated by experts Beyond Zero Emissions. The campaign now ranges beyond the state and DEA has done a segment on ABC's Radio National Breakfast programme. It remains to be seen what impact will occur from the Federal government's failure to complete the negotiation on polluting coal power stations.

Examples of ongoing coal campaigns

DEA activism has been directed at several other coal issues, for which we have operated on concerns brought to us by community groups, then analysed existing data on pollution or in Environmental Impact Statements, written press articles, made media statements, and lobbied governments. It is a form of selective opportunism applied using medical science.

The following DEA strategies illustrate this in operation:

The New Hope coal mine pollution in Queensland

DEA involvement in this issue results from a request for help from the Oakey Coal Action Alliance. The inhabitants of villages near to the mine have suffered air pollution for years and pleas to the former Queensland Government had failed to bring action; indeed expansion of the mine was under consideration.

DEA analysed all available pollution data on government sites and in the environmental impact statements. It was our view that there was pollution harmful to human health.

The campaign then involved posting our findings on the DEA web site, www.dea.org.au/news/article/dea_aqland_correspondence, letters to several Queensland ministers and to Minister Burke. There was an extensive write up in *The Australian*. The new Queensland Minister for Health and the local Member of Parliament met with the Oakey Coalition and DEA and there is progress in officially examining all the claims through a joint community/government Committee with DEA representation.

In 2012 DEA received many such requests from distressed communities and we worked hard to help in as many cases as possible.

Waratah coal port expansion at Newcastle NSW

A massive expansion of the coal export terminal in Newcastle is proposed which will double its export of coal, greatly increase world greenhouse emissions, double the number of coal

trains traversing the city and expand mining in rural Hunter. In response to community concerns DEA analysed the data in the environmental impact assessment and found that it would increase the pollution in an already polluted city. A submission was made. www.dea.org.au/images/uploads/submissions/T4_Coal_Port_Expansion_-_Newcastle_05-12v2.pdf

A range of community groups are opposing the proposal and DEA is supporting with medical evidence as needed. In 2012 DEA has published a range of articles including in the Newcastle Herald and in media including the ABC. www.theherald.com.au/story/116050/opinion-clear-the-air-in-coal-versus-health-debate/. The health aspects of the proposal are summarised in the article "Newcastle's T4 project puts short-term profit before health". www.theconversation.edu.au/newcastles-t4-project-puts-short-term-profit-before-health-9274

Waratah Coal's proposed Galilee coal project Queensland

DEA became involved at the behest of the Bimblebox Nature Refuge; this heritage area will be consumed by the mine. In terms of health impacts, the world greenhouse emissions caused by the development of several major mines in the Galilee basin are huge.

DEA made a submission on the EIS www.dea.org.au/images/uploads/submissions/Waratah_Submission_11-11.pdf and it became apparent from our analysis and that of another mine Kevin's Corner www.dea.org.au/images/uploads/submissions/Kevins_Corner_EIS_Submission_12-11.pdf also in the basin, that cumulative impacts of pollution into the river catchments were being ignored. There is every expectation that this pollution will add to the stresses on the Great Barrier Reef.

DEA wrote to Minister Burke, published articles www.abc.net.au/unleashed/3776784.html and held a discourse with the UNESCO Committee on the issue. The federal and Queensland governments are now preparing a study for UNESCO on cumulative toxic impact into the catchment.

Unconventional Gas (CSG/Shale Gas) Mining and Health

DEA has been at the forefront in Australia of detailing the potential local health impacts of unconventional gas and its greenhouse emission profile which, as indicated by the International Energy Authority, may be little better than that of coal; indeed its prolific use may delay a transition to renewable energy.

DEA's policy has been defined at www.dea.org.au/images/general/DEA_CSG_Draft_Policy_-_7-2-12.pdf and a detailed discussion paper can be found at www.dea.org.au/images/general/Gas_and_Health_Report_01-2012.pdf

The last year has seen a great deal of advocacy work highlighting these health impacts. With this industry rolling out like a juggernaut across the country, and governments slow to enact adequate protections, DEA has produced media articles, talked at many public

meetings in several states, developed position statements and parliamentary submissions, lobbied politicians and provided input into reference groups.

As an important educational tool Eugenie Kayak produced an information sheet on coal seam gas with key links. [www.dea.org.au/images/general/Unconventional \(CSG-Shale\) Gas DEA.pdf](http://www.dea.org.au/images/general/Unconventional_(CSG-Shale)_Gas_DEA.pdf)

DEA is actively concerned with the plight of communities living near gas developments who are reporting illness and distress from exposure to these developments and is supporting their rights to have adequate and independent assessments of their plight.

Marion Carey and Helen Redmond appeared before the NSW Government Inquiry into Coal Seam Gas in November 2011. A number of positive outcomes from this inquiry included the recommendation to continue the ban on fracking until chemicals used in the process have been adequately assessed.

In May 2012 DEA sent a delegation to Canberra; Peter Tait, Helen Redmond, Linda Selvey and Marion Carey held meetings to brief Minister Plibersek's and Tony Windsor's advisers, Senator Larissa Water and Minister Tony Burke. We have lobbied hard for the Independent Expert Committee on Coal Seam Gas and Coal Mining (IESC) to include health input and expertise. In June Peter Tait and Marion Carey gave evidence to the Parliamentary Inquiry on the ISEC on CSG and throughout 2012 Peter Tait, collaboratively with PHAA, was involved on the Federal government's Stakeholder Reference Group on CSG.

Regionally DEA has been active with Rowena Knoesen speaking about CSG on the North Coast of NSW. She is now informing communities in Gippsland, along with Jo McCubbin and Merryn Reddenbach.

During June, George Crisp and Kingsley Faulkner spoke up for the right of communities to receive unbiased information on the potential adverse impacts of shale gas development in WA, despite political attempts to exclude DEA from having a voice.

DEA has presented evidence to two parliamentary committees that it considers the current level of assessment, monitoring and regulation of CSG exploration and mining activities to be inadequate to protect the health of current and future generations of Australians. There is the potential for public health to be adversely affected by CSG, shale and tight gas operations.

Please read DEA's Senate and NSW Government submissions:

[www.dea.org.au/images/uploads/submissions/MDB CSG Senate submission June 2011.pdf](http://www.dea.org.au/images/uploads/submissions/MDB_CSG_Senate_submission_June_2011.pdf) and [www.parliament.nsw.gov.au/prod/parlment/committee.nsf/0/f96d076732225603ca25791b00102098/\\$FILE/Su bmission%200412.pdf](http://www.parliament.nsw.gov.au/prod/parlment/committee.nsf/0/f96d076732225603ca25791b00102098/$FILE/Su bmission%200412.pdf)

Unconventional gas is 'natural gas' that requires mining procedures over significant areas of land. It is extracted from coal deposits that are too deep to mine economically by the traditional methods. Definition of the forms of gas is relevant to understanding.

The usual types of unconventional gas resources are:

- Coal seam gas (CSG), which is trapped in coal seams. This is the predominant form in NSW and Queensland.
- Shale gas, where the gas is trapped in shale formations. This accounts for most of the recent US unconventional gas development. Large shale reserves also exist across Australia and are being actively explored in WA, SA and Qld.
- Tight sands gas. This gas is trapped in a rock/sandstone/limestone formation that is particularly "tight". This refers to the very small pore spaces and/or low permeability in the rock.

Hydraulic fracturing or "fracking" is used in CSG, shale and tight gas extraction. This process involves pumping a mixture of water, sand and other chemical additives at high pressure into the coal seam or shale rock via the well, fracturing these seams and providing a pathway for gas to flow back. In coal seams the gas is released through depressurization, where the underground water in the seams is released to the surface as a by-product. This can potentially affect interconnected aquifers above or below the coal seam.

Shale seams occur at much deeper levels and due to their nature hydraulic fracturing, involving large volumes of water with chemical additives, is required to extract the gas.

DEA has written extensively on the health issues of unconventional gas and health. Some examples are an article in Viewpoint magazine by DEA member Dr Marion Carey (Victorian Public Health Physician) is an excellent summary of the issues we are concerned about www.dea.org.au/images/general/viewpoint_issue_8_CSG.pdf and a video clip of Dr Helen Redmond (NSW Physician who has spoken extensively at public forums over the last few years on CSG's potential health implications) can be viewed at www.dea.org.au/resources/file/csg_undermining_our_food_bowls_dr_helen_redmond. The green house implications of unconventional gas have been detailed in a submission to the Federal Government www.dea.org.au/images/uploads/submissions/Draft_Energy_White_Paper.pdf.

Other DEA media articles that may be of interest are in Crikey, Medical Observer, and the Conversation:

www.dea.org.au/news/article/behind_the_seams_whos_asking_questions_about_coal_seam_gas_and_health
www.dea.org.au/news/article/coal_seam_gas_health_effects_need_more_scrutiny
www.theconversation.edu.au/coal-seam-gas-could-be-a-fracking-disaster-for-our-health-1493

Despite common potential health impacts in unconventional gas mining, each state has its own processes of assessment and regulation. This form of mining has commenced or will commence in WA, Victoria and SA. DEA is having or is seeking input into the processes in each of these states. In WA, the government has dismissed health aspects and handed the environmental assessment to the Department of Mines. DEA has condemned the attitude of the West Australian Government www.reneweconomy.com.au/2012/fracking-a-risk-to-health-and-healthy-returns-91188.

By contrast a more cautious approach has been made in both Victoria and SA; DEA has been invited to include the health concerns in the SA government's "Roadmap" for unconventional gas mining.

Renewable energy, action on the health aspects

DEA continues to be concerned about delays and restrictions on the rollout of renewable energy technologies with low health impacts, and has lobbied politicians to this effect. Indeed this lobbying is part of every contact. Replacement with solar energy is part of the campaign to replace Port Augusta's coal power stations.

DEA has developed a position statement of the health effects of wind turbines [www.dea.org.au/images/general/Health Effects of Wind Turbines July 2011.pdf](http://www.dea.org.au/images/general/Health_Effects_of_Wind_Turbines_July_2011.pdf).

DEA has been concerned about unsubstantiated claims of adverse health impacts which have delayed the development of some wind farms. These claims have led to a Parliamentary Inquiry in South Australia and DEA has made a submission [www.dea.org.au/images/uploads/submissions/SA Wind Farm Developments Inquiry and Health Submission 07-12.pdf](http://www.dea.org.au/images/uploads/submissions/SA_Wind_Farm_Developments_Inquiry_and_Health_Submission_07-12.pdf).

Forest Issues and Health

Recognising the myriad of health benefits provided for us by forests, over the past year DEA has worked to promote their value to health and campaigned for their protection.

We have updated our Forests policy, see [www.dea.org.au/images/general/DEA Policy on Forests and Health 03-12.pdf](http://www.dea.org.au/images/general/DEA_Policy_on_Forests_and_Health_03-12.pdf)

The wilderness area of the *Tarkine* in Tasmania encompasses old growth forests and other biomes such as button grass plains, rivers and coastal dune systems.

It is currently threatened by mining with Federal Environment Minister Tony Burke allowing emergency National Heritage listing to lapse and a subsequent rush of open cut mine proposals to be submitted.

National and Victorian Committee member, Dimity Williams participated in a campaign with national advocacy organisation GetUp in March 2012 to lobby Tony Burke to visit the area which he did midyear.

Dimity was involved in creating a film of the Tarkine which was promoted via the web and was successful in getting Minister Burke to the Tarkine. www.youtube.com/watch?v=6IRTUxi9Zj0

The promotion of nature and forests as important for health and wellbeing was the subject of presentations given by Dimity Williams in August 2012 to the Sustainability and Health Journal Club at the Nossal Institute for Global Health in Melbourne and at the Victorian Child and Nature Connection Seminar on wellbeing benefits of nature contact for children in November 2011.

DEA student member activities in 2012

Student membership has continued to follow the strong growth seen in 2011; across most states with the exception of Western Australia, where membership continues to lag.

In an effort to assist student transition to professional junior membership of DEA, all graduating members will be sent an invitation to remain a member of DEA from the National Student Representative.

The Code Green campaign of last year, whilst being beneficial in a number of ways, was found to consume too many resources and has been abandoned in favour of state based activities allowing wider participation rates. This has led to the creation of Fact and Action Meetings, providing members with information on a particular important issue along with a specific action to take to address the issue (such as writing a letter to the relevant minister). These have been overwhelmingly well received and will continue to comprise a key element of the recruitment of new members and the maintenance of the relationship with existing members.

iDEA Conference

The iDEA Conference has continued to be a success, held at the CERES facility in Melbourne over 14-15 April 2012. It was again well attended and provided the opportunity for members to hear a number of keynote speakers including Prof Ian Lowe of the Australian Conservation Foundation and Ellen Sandell of the Australian Youth Climate Coalition in addition to workshops and training. A tour and dinner aboard the Sea Shepherd vessel docked in Melbourne, which was well attended by conference delegates.

The student AGM and committee elections were held concurrently at the conclusion of the Conference, allowing for maximum participation of students from around the country. Greater participation and integration with DEA doctors was once again considered a desirable aim for next year's Conference, with the plan to have a doctor member of DEA as part of the organising committee for iDEA 2013.

Other student activities

During 2012 students participated in the Planet Ark National Tree Planting Day; leveraging another organisation's resources was an effective strategy and should continue to be a part of the maintenance of participatory activities for DEA members nationally. Decentralising control and allowing each state to organise and attend events that best suit their needs has been an effective technique that has allowed for maximum participation of students in activities. This has resulted in successful film nights, a sustainability market and contributed significantly to the success of Fact and Action Meetings.

Parliamentary Visits and Letters

It is DEA policy to visit federal and state parliamentarians and particularly Ministers, on a strategic basis. As detailed in the above reports we have done this and have delivered briefings on our policies based on health. Generally access has been good; only two Ministers have refused to meet us, Martin Ferguson, Minister for Energy on coal and coal seam gas and Mark Butler Minister for Social Inclusion on community issues relating to coal seam gas. On issues of great importance to us we have made several mail-outs to all Federal members of parliament. Responses have been increasingly sparse and are often standardised. Letters on climate change to the Coalition, whatever their content; generally receive a response attacking the carbon tax.

Submissions made to Parliamentary Committees

This important part of our work allows us to place before a number of Members and Senators important health and environmental considerations. The submission is usually placed on the Parliamentary web site which has parliamentary and public exposure. Submissions offer the option of appearance before the Committee and the transcript is also placed on the Parliamentary web site. In 2011-2012 some of the submissions were comprehensive documents which have been widely quoted.

Submissions have also been made to state and federal government bodies and Committees. All are listed below and are on the DEA web site including submissions which state governments chose not to make public.

Roxby Downs (Indenture Ratification) (Amendment of Indenture) Amendment Bill 2011

www.dea.org.au/images/uploads/submissions/Olympic_Dam_Submission_DEA_11-11.pdf

Response to the supplementary EIS on the Olympic Dam expansion

Submission on the Discussion Paper on the 2011 Legislative Review of the Climate Change and Greenhouse Emissions Reduction Act 2007 – SA

www.dea.org.au/images/uploads/submissions/SA_Climate_Act_Review_submission_9-11-11.pdf

Kevin's Corner EIS Submission – QLD

www.dea.org.au/images/uploads/submissions/Kevins_Corner_EIS_Submission_12-11.pdf

Clean Energy Finance Corporation Expert Review

www.dea.org.au/images/uploads/submissions/Clean_Energy_Finance_Corporation_Submission_12-11.pdf

Waratah Submission

www.dea.org.au/images/uploads/submissions/Waratah_Submission_11-11.pdf

Waratah Coals proposed Galilee Coal Project – northern export facility – also known as China First Coal Project

Regulated Trees Amendment – SA

www.dea.org.au/images/general/Regulated_Trees_Amendment_01-12.pdf

NHMRC - Draft Australian Dietary Guidelines submission

[www.dea.org.au/images/general/NHMRC Dietary Guidelines Submission 02-12.pdf](http://www.dea.org.au/images/general/NHMRC_Dietary_Guidelines_Submission_02-12.pdf)

Draft Energy White Paper

[www.dea.org.au/images/uploads/submissions/Draft Energy White Paper.pdf](http://www.dea.org.au/images/uploads/submissions/Draft_Energy_White_Paper.pdf)

Submission on the Murray Darling Basin plan

[www.dea.org.au/images/general/Murray Darling Submission 04-12.pdf](http://www.dea.org.au/images/general/Murray_Darling_Submission_04-12.pdf)

Environment and Communications Legislation Council

[www.dea.org.au/images/uploads/submissions/Environment and Communications Legislation Council 04-12.pdf](http://www.dea.org.au/images/uploads/submissions/Environment_and_Communications_Legislation_Council_04-12.pdf)

Road Safety amendment – Car Doors - VIC

[www.dea.org.au/images/uploads/submissions/Standing Committee on Economy and infrastructure Legislation \(Victoria\).pdf](http://www.dea.org.au/images/uploads/submissions/Standing_Committee_on_Economy_and_infrastructure_Legislation_(Victoria).pdf)

Thank you, John Merory (DEA member) for writing this submission.

2020 Green House Gas Intensity Target - SA

[www.dea.org.au/images/uploads/submissions/South Australia Climate Submission.pdf](http://www.dea.org.au/images/uploads/submissions/South_Australia_Climate_Submission.pdf)

SA Wind Farms Development Inquiry and Health submission

[www.dea.org.au/images/uploads/submissions/SA Wind Farm Developments Inquiry and Health Submission 07-12.pdf](http://www.dea.org.au/images/uploads/submissions/SA_Wind_Farm_Developments_Inquiry_and_Health_Submission_07-12.pdf)

T4 Coal Port Expansion – Newcastle

[www.dea.org.au/images/uploads/submissions/T4 Coal Port Expansion - Newcastle 05-12v2.pdf](http://www.dea.org.au/images/uploads/submissions/T4_Coal_Port_Expansion_-_Newcastle_05-12v2.pdf)

NICAS - National Industrial Chemicals notification and Assessment Scheme Review

[www.dea.org.au/images/uploads/submissions/NICAS 08-12.pdf](http://www.dea.org.au/images/uploads/submissions/NICAS_08-12.pdf)

Media Releases

During 2012 DEA have further increased their presence in the Australian media, using a mix of metropolitan and regional radio, television, print and online publications; covering both state and national issues for their own media releases.

“Coal a health hazard” say doctors, 17 November 2011

[www.dea.org.au/news/article/coal a health hazard say doctors](http://www.dea.org.au/news/article/coal_a_health_hazard_say_doctors)

Landmark hearing – Doctors vs Coal, 17 February 2012

[www.dea.org.au/news/article/landmark hearing doctors vs coal](http://www.dea.org.au/news/article/landmark_hearing_doctors_vs_coal)

Doctors dismiss the Energy White Paper as a prescription for the 1950s and a recipe for ill health, 20 March 2012

[www.dea.org.au/news/article/doctors prescribe action re bike funding as a public health measure](http://www.dea.org.au/news/article/doctors_prescribe_action_re_bike_funding_as_a_public_health_measure)

Doctors lament the health costs of HRL power station approval 29 March 2012

[www.dea.org.au/news/article/media release doctors lament the health costs of hrl power station approval](http://www.dea.org.au/news/article/media_release_doctors_lament_the_health_costs_of_hrl_power_station_approval)

Minister blocks opportunity for WA to hear about the health risks from fracking, 13 June 2012

www.dea.org.au/news/article/minister_blocks_opportunity_for_communities_to_hear_about_the_health_risks

Doctors prescribe action re bike funding as a public health measure, 20 June 2012

www.dea.org.au/news/article/doctors_prescribe_action_re_bike_funding_as_a_public_health_measure

Doctors Applaud Coal Funding Cut as Positive Health Measure, 30 July 2012

www.dea.org.au/news/article/doctors-applaud-coal-funding-cut-as-positive-health-measure

Medical Observer and DEA collaboration

DEA's collaboration with Medical Observer has continued throughout 2011/2012.

In the November 25 issue, Medical Observer distributed a copy of our "Addicted to Dirty Cheap Energy" poster to its GP circulation, with a thumbnail of it on the front cover and reference to DEA. This was in the same issue as Dr Helen Redmond's opinion piece entitled "Coal powered energy is a public health issue", which outlined that once the health impacts of coal are accounted for, coal is no longer a cheap energy source.

www.medicalobserver.com.au/news/coal-powered-energy-is-a-public-health-issue

Other DEA opinion pieces which have been published are

- "Doctors must do more to urge action on climate", which framed advocacy as part of preventative health care in the wake of the scientific consensus on climate change.
Dr Graeme Horton 4th November 2011
www.medicalobserver.com.au/news/doctors-must-do-more-to-urge-action-on-climate
- "Coal seam gas health effects need more scrutiny" which described how CSG development poses poorly assessed, yet potentially serious health risks.
Dr Marion Carey 23rd March 2012
www.medicalobserver.com.au/news/coal-seam-gas-health-effects-need-more-scrutiny
- "It's natural, free and beckoning to heal us", highlighting the health benefits of contact with nature.
Dr Dimity Williams 8th June 2012
www.medicalobserver.com.au/news/its-natural-free-and-beckoning-to-heal-us
- "It's time for change, and not just in our climate" discussed the imperatives and numerous co-benefits of improving our healthcare's environmental impact.
Dr Eugenie Kayak 10th August 2012
www.medicalobserver.com.au/news/its-time-for-change-and-not-just-in-our-climate

All of the DEA opinion pieces have been printed with DEA acknowledged as the source of the articles together with our web address.

Medical Observer printed a letter to the editor from Dr George Crisp on 3rd August entitled "Environment: the centre of health" and which promoted DEA's role in highlighting environmental health risks, informing policy makers, our peers and patients, and

advocating action and solutions. The letter called for new members to join and support DEA.

Educational Activities

Education of our colleagues in the community and governments remains at the forefront of our endeavours; the reader will see in this Annual Report that it is embedded in all activities for we try to ensure that every activity we undertake embraces an educational component. In 2012 we have given countless talks lectures seminars and educational briefings, those listed at the end of this report by no means reflect their totality.

The challenge remains great, for as indicated in the section on "Climate Change and health", many issues are decided on opinion and ideology and not scientific fact. The tide will turn and we find solace from humanity abolishing slavery and providing women with the vote, momentous and unexpected decisions at the time as will be decisive action on climate change.

Summary of the Treasurer's Report for the financial year 2011-2012

The total equity for the year ending June 2012 was \$ 124,250 (compared to \$124,581 for the previous financial year). Income was \$331 less than expenditure, reversing the large negative balance of \$27,244 from the previous financial year. This was largely due to a combination of a successful annual appeal, the introduction of a choice of tiered membership as well as an expanded member base. We are indebted to our new and existing members for this pleasing and encouraging position from which we can move forward.

Please see the Annual Financial Statement for more details.

Hakan Yaman, Honorary Treasurer

Management Committee for 2012-2013

The following committee was elected on September 9, 2012

Professor Kingsley Faulkner – Chair
Professor David Shearman – Secretary
Dr Hakan Yaman – Treasurer
Dr Marion Carey (VIC)
Dr George Crisp (WA)
Dr Eugene Kayak (VIC)
Dr David King (QLD)
Dr Helen Redmond (NSW)
Dr Linda Selvey (WA)
Dr Peter Tait (ACT)
Aaron Tracey – Student Representative
Dr Dimity Williams (VIC)

Corresponding members:

Rohan Church (TAS)
Jenny Hellsing
Anna Norris (TAS)
Dr Ben Ticehurst (NSW)

DEA Scientific Advisory Committee

We are fortunate to have the support of a Scientific Advisory Committee consisting of eminent doctors and scientists and we thank them for their advice and contributions throughout the year. The members of this committee are:

Professor Stephen Boyden AM
Professor Peter Doherty AC
Professor Bob Douglas AO
Professor Michael Kidd AM
Professor David de Kretser AC
Professor Stephen Leeder AO
Professor Ian Lowe AO
Professor Robyn McDermott
Professor Tony McMichael AO
Professor Peter Newman
Professor Emeritus Sir Gustav Nossal AC
Professor Hugh Possingham
Professor Lawrie Powell AC
Professor Fiona Stanley AC
Dr Rosemary Stanton OAM
Dr Norman Swan
Professor David Yencken AO

Thank you to our many contributors

No organisation such as ours can function effectively without the dedication of so many colleagues and helpers.

A special thank you to the many students who have helped us increase our impact over the past two years.

We thank many non-medical persons for their voluntary assistance with particular mention of our auditor, Cameron Batterham and IT advisor Mark White.

We thank the many members of DEA who contribute time and whatever donations they can afford. Our budget is tight and we have survived on their generosity.

Joy Oddy, Administration Officer, continues to make her contribution to our efficiency and public face and we thank her for her commitment.

Publications

Carey M. Viewpoint magazine February 2012
www.dea.org.au/images/general/viewpoint_issue_8_CSG.pdf

Carey M, Shearman D. Crikey, CSG series, FAQ 8 March 2012
www.crikey.com.au/2012/03/08/behind-the-seams-whos-asking-questions-about-coal-seam-gas-and-health/

Carey M. Coal seam gas health effects need more scrutiny, Medical Observer 20 March 2012
www.medicalobserver.com.au/news/coal-seam-gas-health-effects-need-more--scrutiny

Carey M. Coal seam gas health effects need more scrutiny, republished in the Public Health Association of Australia Newsletter April 2012
www.dea.org.au/news/article/coal_seam_gas_health_effects_need_more_scrutiny

Carey M. The Conversation 16 May 2012
www.dea.org.au/news/article/reframing_climate_change_could_deliver_health_benefits

Kayak E. The Age, letter 26 November 2011
www.theage.com.au/national/letters/serious-hazards-in-burning-coal-20111026-1mk2h.html

Kayak E. "Are we to remain in a dirty industrial revolution?", RenewEconomy 30 March 2012
www.reneweconomy.com.au/2012/are-we-to-remain-in-a-dirty-industrial-revolution-28066

Kayak E. Doctors support healthier energy choices, Vicdoc, AMA – Vic, September 2012

McGain Forbes, Story David, Mossenson Simone, Kayak Eugenie are co-authors of three articles related to environmentally sustainable practices within our practices and healthcare system, Anesthesia and Analgesia 1 May 2012

www.dea.org.au/news/article/sustainable_anaesthesia_is_important_to_medical_research_and_to_climate_change

McGain, Story, Kayak, Kashima and McAlister Work place sustainability: the 'cradle to the grave' view if what we can do (Anesth Analg 2012; 114:1134-1139)

McGain, White, Mossenson, Kayak, Story. A survey of anesthesiologists' views of operating room recycling (Anesth Analg 2012; 114:1049-54)

McGain, McAlister, McGavin, Story. A life cycle assessment of reusable and single use central venous catheter (CVC) insertion kits (Anesth Analg 2012; 114: 1073-80)

Shearman D. Killing the Great Barrier Reef for short-term profit, ABC The Drum, January 2012

www.abc.net.au/unleashed/3776784.html

Shearman D, Crisp G. Energy White Paper: The true cost of backwards thinking, Renew Economy, March 2012

www.reneweconomy.com.au/2012/energy-white-paper-the-true-cost-of-backwards-thinking-87401

Shearman D, Selvey L. Something in the air: time for independent testing in coal areas, The Conversation, March 2012

www.theconversation.edu.au/something-in-the-air-time-for-independent-testing-in-coal-areas-5763

Shearman D. A Titanic climate change challenge, Climate Spectator, April 2012

www.climatespectator.com.au/commentary/titanic-climate-change-challenge

Shearman D, Selvey L. Opinion: Clear the air in coal versus health debate, Newcastle Herald 11 May 2012

www.theherald.com.au/story/116050/opinion-clear-the-air-in-coal-versus-health-debate/

Shearman D. Solar thermal can cure what ails Port Augusta, Renew Economy, May 2012

www.reneweconomy.com.au/2012/solar-thermal-can-cure-what-ails-port-augusta-14147

Shearman D. Fracking: A risk to health, and healthy returns, Renew Economy, June 2012

www.reneweconomy.com.au/2012/fracking-a-risk-to-health-and-healthy-returns-91188

Shearman D. A healthy climate change battle, Climate Spectator, July 2012

www.climatespectator.com.au/commentary/healthy-climate-change-battle

Shearman D, Selvey L. Newcastle's T4 project puts short-term profit before health, The Conversation, September 2012

www.theconversation.edu.au/newcastles-t4-project-puts-short-term-profit-before-health-9274

Ticehurst B. Letter, Bungendore Mirror, November 2011

Ticehurst B. Letter, The Land, November 2011

Ticehurst B. Letter, Boorowa News, November 2011

Ticehurst B. Letter, Crookwell Gazette, November 2011

Ticehurst B. Letter, Yass Tribune, November 2011

Williams D. It's time to Getup! and save the Tarkine, 28 March 2012

www.dea.org.au/news/article/its_time_to_getup_and_save_the_tarkine

Williams D. It's natural, free and beckoning to heal us- nature as therapy, Medical Observer, 8 June 2012

Williams D. New report from Beyond Zero Emissions: Laggard to Leader- How Australia Can Lead the World to Zero Carbon Prosperity, 1 August 2012

www.dea.org.au/news/article/new-report-from-beyond-zero-emissions

Yin R. "Paper Linen isn't the Answer", Medical Forum WA, 1 July 2012

www.medicalhub.com.au/wa-news/letters/3811-paper-linen-isnt-the-answer

Conferences, Talks and Lectures

Carey M. CSG and health talk Trades Hall Melbourne, 7 October 2011

Carey M, Redmond H. attended NSW Gov CSG Inquiry, Sydney, 17 November 2011

Carey M. "Saving Lives...reframing climate change around health and livelihoods" DEA co-hosted an evening lecture and panel discussion with Environment Victoria and Psychology for a Safe Climate, 20 February 2012

Carey M. "Climate change and Health Impacts" took part in the panel discussion at a forum held by the Australian Science Communicators, 6 March 2012

www.asc.asn.au/blog/2012/02/12/climate-change-and-health-impacts/

Carey M. iDEA 2012 conference, Melbourne, 14 April 2012

Carey M. gave evidence, public hearing for the inquiry into Australia's biodiversity in a changing climate, House Climate Change, Environment and the Arts Committee, Melbourne, 4 May 2012

Carey M. lecture to medical students, Monash Gippsland campus, 18 May 2012

Carey M, Tait P, Redmond H, Selvey L. Parliamentary briefings with Ministers Plibersek, Waters, Burke and Windsor's advisers, Canberra, 29 May 2012

Carey M, Tait P. Parliamentary Inquiry into ISEC on CSG, 7 June 2012

Carey M. "Environmental Justice in Practice", Environment Defenders Office, Victoria, 27 July 2012

Crisp G. "Air pollution and Health", Road to Rail meeting, Kwinana, 21 February 2012

Crisp G. "Health implications from Climate change", lecture to students, Curtin University Sustainability Policy (CUSP) Institute, 4 April 2012

Crisp G. Anti-fracking rally, Murray Street, Perth, 21 April 2012

Crisp G. "Health implications from Climate change", lecture to students, Curtin University, 11 May, 2012

Crisp G. "Health impacts of shale gas exploration and fracking" Parliamentary Briefing (WA State Parliament), 17 May 2012

Crisp G. Shale gas exploration and extraction, public meeting organized by the National Party of WA, Eneaba, WA, July 2012

Crisp G. Shale gas exploration and extraction, public meeting organized by the National Party of WA, Dongora, WA, July 2012

Crisp G. Potential health impacts from unconventional gas exploration and fracking, Forum, City of Fremantle Council, 31 July 2012

Crisp G. "The health and environmental issues of increased road traffic and climate change", WA Transport 2012 conference, Perth 21-22 August 2012

Faulkner K. "A Doctor for all Seasons; Medicine in the 21st Century", iDEA 2012 Conference, Brunswick, April 2012

Faulkner K, Glazov G. Shale gas exploration and extraction, public meeting organized by the National Party of WA, Gingin, WA, July 2012

Faulkner K. Climate Change and Health, Global Health Group of MSAND (Medical Students Association of Notre Dame) and WAMSS (Western Australian Medical Students society of UWA), University of Notre Dame Australia (Fremantle), 16 August 2012

Glazov G. Fracking, community meeting, Jurien Bay, September, 2012

Horton G. "Climate Change Health and Advocacy" lecture to undergraduate allied health students, University of Newcastle, 24 October 2011

Horton G. "Coal as a Health Hazard" From Paddock to Port public meeting, Newcastle City Hall, 15 February 2012

Horton G. "Should Doctors Advocate about the medical Challenges of Climate Change", panel member for student leadership seminar, University of Sydney, 29 May 2012

Kayak E. "Public health driven environmental advocacy", MSSSI Summit, 15 October 2011

McCubbin J, Knoesen R. 'Health Implications of CSG', community meeting, Sale, 3 September 2011

Maxwell J. 'Climate change, coal and health of Gippsland', Bairnsdale Regional Health Service, August 2011

Maxwell J. "Climate change and health – opportunities and hazards", General Medical Meeting, Box Hill Hospital, Victoria, 22 May 2012

Pearson K, Williams D and Merory J. - manned a DEA display, National AMA Conference, Melbourne, to correspond with the Environment and Health session that included a speech from Tim Flannery (Chief Climate Commissioner), 26 May 2012

www.ama.com.au/media/chief-climate-commissioner-well-received-ama-national-conference.

Redenbach M. proposed CSG exploration within the Modella area, Gippsland, 19 March 2012

Redenbach M, Kayak E. "Health issues of coal", community forum, Bacchus Marsh, 16 April 2012

Redenbach M. "Health issues of coal", Community forum, Bacchus Marsh, Saturday 28 April 2012

Redenbach M. "Potential Health Impacts of Coal Seam Gas", Tarwin Lower, 3 June 2012

Redmond H. Health impacts of CSG, Board of Western Sydney Councils, 20 October 2011,

Redmond H. Health impacts of CSG, community meeting Ku-rin-gai Town Hall, Sydney, 30 October 2011

Redmond H. "What the Frack?" health impacts of CSG, Politics in the Pub, North Sydney, 5 November 2011

Redmond H., Health impacts of CSG, "Undermining our Food Bowls", Sydney Food Fairness Alliance, 6th February 2012

Redmond H. Health impacts of CSG, local Greens at Manly, 17 April 2012

Redmond H. "Health impacts of climate change, coal and unconventional gas", Climate Action Summit 2012, Sydney, 29th April 2012

Redmond H. Health impacts of coal mining, coal combustion and unconventional gas, Association of Mining Related Councils, Singleton, 10 August 2012

Shearman D. The health costs of coal and gas in SA, Parliament of SA, 3 May 2012

Skipper B. Coordinated DEA involvement in a nationwide initiative, planting 394 trees, Warrandyte Land Care group, 29 July 2012

Ticehurst B. Climate change & health, Code Green Grand Rounds, seminar, UNSW School of Medicine, 3 November 2011

Ticehurst B. Medical students and the environment, Global Health evening seminar, School of Medicine, University of Notre Dame, 23 February 2012

Ticehurst B. Should doctors advocate about the medical challenge of climate change? Leadership Series, University of Sydney Medical School, 29 May 2012

Williams D, Kayak E, Blashki G, Mc Gain F, Carey M. RACP's Health and Sustainability workshops, 6 and 7 August 2011

Williams D, Monash Ignite Code Green Evening, 22nd August 2011

Williams D. "Connecting with nature: the health benefits Victorian Child and Nature Connection Seminar, Royal Botanic Gardens, Melbourne, 28 October 2011

Williams D, Pearson K, Kayak E. Discussion 'involvement and importance of advocating for and taking action on the issue of climate change and health', Tim Flannery, Lesley Hughes, Roger Beale, Gerry Hueston (Climate Commission) and Western Health, hosted by Forbes McGain (DEA) and CAHA, 25 July 2012

Media, Press, Interviews

Carey M. "Air pollution puts child health at risk", The Age, 22 July 2012
www.theage.com.au/national/car-pollution-puts-child-health-at-risk-20120721-22qyt.html

Crisp G. Mercury causes many problems, Collie Mail, 23 August 2012
www.colliemail.com.au/story/270393/mercury-causes-many-problems/?cs=1443

Crisp G. Mercury found in Collie River, West Australian, 24 August 2012
www.au.news.yahoo.com/thewest/a/-/breaking/14659860/mercury-found-in-collie-river/

Faulkner K. "Professional Pride", Medical Forum WA, 1 March 2012
<http://www.medicalhub.com.au/wa-news/medical-pioneers/3748-kingsley-faulkner-professional-pride>

Horton G. Interview ABC Radio, Newcastle, 15 February 2012

Horton G. Hunter GP sounds warning over coal expansion, ABC News, 15 February 2012
www.abc.net.au/news/2012-02-15/hunter-gp-sounds-warning-over-coal-expansion/3830722

Horton G. Hunter community takes stand against new coal terminal, Green Left, 15 February 2012
www.greenleft.org.au/node/50041

Horton G. Group fights coal proposal, Maitland Mercury, 17 February 2012

Kayak E. "Environment groups challenge new power plant", ABC News 24 October 2011

www.abc.net.au/news/2011-10-24/environment-groups-challenge-new-power-plant/3597276?section=vic

Kayak E. "Rally held outside VCAT coal plant hearing", Nine News, 24 October 2011
www.news.ninemsn.com.au/national/8364720/rally-held-outside-vcat-coal-plant-hearing

Kayak E. "Mixed Greens: EPA ruling on HRL coal plant overturned", Renew Economy, 29 March 2012
www.reneweconomy.com.au/2012/mixed-greens-epa-ruling-on-hrl-coal-plant-overturned-42548

Kayak E. "Doctors back power plan funding snub", ABC News, 31 July 2012
www.abc.net.au/news/2012-07-31/doctors-back-power-plant-funding-snub/4165552

Knoesen R. "CSG mining and your health", Northern Rivers Echo, 12 July 2012
www.echonews.com.au/story/2012/07/12/csg-mining-and-your-health/

Knoesen R. CSG debate ramps up, Gippsland Times, 20 August 2012
www.gippslandtimes.com.au/story/235716/csg-debate-ramps-up/

Redenbach M. "Doctors warn of open-cut mine dangers", Melton Weekly, 24 April 2012

Redenbach M. 774 ABC Radio talkback with John Faine and Premier Ted Baillieu, Health impacts of Anglesea Power Station, 27 April 2012.

Redenbach M. Interview, ABC Radio National, 5 July 2012
www.abc.net.au/radionational/programs/breakfast/anglesea-residents-worried-about-alcoa-health-impacts/4111314

Redmond H., Health impacts of CSG, "Undermining our Food Bowls", radio interview with Alan Jones, 6th February 2012

Redmond H. Doctors highlight health costs to Association of Mining Councils, Singleton Argus, 14 August 2012
www.singletonargus.com.au/story/209890/doctors-highlight-health-costs-to-association-of-mining-councils/

Shearman D. Interview with Gregg Borschmann, environment editor, New analysis of Port Augusta pollution contradicts SA government, ABC Radio National "Breakfast", 3 May 2012
www.abc.net.au/radionational/programs/breakfast/new-analysis-of-port-augusta-pollution-contradicts-sa-government/3986942

Selvey L. Doctors warn of T4 coal-loader pollution, Newcastle Herald, 9 May 2012
www.theherald.com.au/story/115996/doctors-warn-of-t4-coal-loader-pollution/

Selvey L. Coal pollution, birth defects 'linked', Newcastle Herald, 30 July 2012
www.theherald.com.au/story/206242/coal-pollution-birth-defects-linked/

Ticehurst B. Radio interview for 'the Wire' - syndicated community radio program, Forget polar bears - how climate change will impact on your health, 30 November 2011
www.thewire.org.au/storyDetail.aspx?ID=8748

Ticehurst B. Media conference and launch of report in association with the Climate Commission - *The Critical Decade: Climate Change & Health*, St Vincent's Hospital, Sydney, 30 November 2011

Williams D. Launch of the Climate Commission's Health Report, Herald Sun, 30 November 2011

www.heraldsun.com.au/news/victoria/climate-report-bad-for-health/story-e6frf7l6-1226209718892

Williams D. "Save the Tarkine", GetUp!, April 2012

www.youtube.com/watch?v=6IRTUxi9Zj0

Williams D. "Planning for good health", Vicdoc, AMA – Vic, May 2012