



Climate change in Western Australia - Issues paper

Submission summary:

Clean State and Conservation Council of Western Australia

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Overview

A total of 1,551 submissions were received via email and hardcopy. The following template response was submitted by respondents:

To whom it may concern,

Thank you for the opportunity to comment on the WA government's climate change discussion paper. I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government.

Here in WA our carbon pollution is rising out of control, but we can do so much better. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.

I call for a comprehensive state-wide policy on climate change that includes the following at a minimum:

1. Immediately reduce WA's carbon pollution and achieve zero net emissions as soon as possible. Legislate to deliver science-based interim targets and an emissions reduction pathway in line with a fair and equitable contribution to limiting global warming to 1.5 degrees.
2. Deliver a billion-dollar Clean State Jobs program to unlock thousands of new jobs in clean industries and support a just transition for affected workers and communities.
3. Completely repower WA with renewable energy, phase out climate damaging fossil fuels, and prevent any new or expanded coal, oil or gas developments in WA including LNG and fracking.
4. Hold WA's biggest polluters to account. Require companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming and renewable energy.

5. Permanently protect natural carbon stores in WA's forests and other ecosystems, and rapidly transition away from native forest logging and clearing.
6. Support climate adaptation programs and partnerships, including with Aboriginal people and communities, farmers, local governments, businesses and other sectors.

Thank you for considering this submission.

Respondents

Please note that duplicate names have not been moderated as the Department of Water and Environmental Regulation could not verify respondent details.

A. Mckenzie	Alex Wilson	Anabela Pracas
Aamein Lowry	Alexa Taylor	Anais Haslam
Abbie Dans	Alexandra Muir	Ananda Barton
Adam Wahby	Alexandra Stewart	Anderson Gare
Adele Hunter	Alice Gray	Andrew Haskell
Adrian Hicks	Alice Poli	Andrew Linford
Adrian Rogers	Alison Ching	Andrew Williams
Adriana Pracas	Alison Daubney	Andy Farrant
Ahmed Ismailjee	Alison Leitch	Andy Hughes
Aileen Ormesher	Alistair Jarvis	Ange Sturman
Ailsa Paterson	Allan Harvey	Angela Bourne
Akiko Sakuma	Allan Rutherford	Angela Byrne
Alan Elliott	Allison Carnegie Smith	Angela Carter
Alan Foote	Alwyn Nixon-Lloyd	Angela Foy
Alan Mayor	Alyssa Curtayne	Angela Nice
Alan Rogers	Amala Boumans	Angela Nilsen
Aleasha Glenny	Amanda Morony	Angela Rossen
Alessandra Cleamthous	Amanda Scotland	Angela Tomeo
Alex Heal	Amanda Whiteland	Angelika Knoerzer
Alex Hunter	Amber Flynn	Angus King
Alex May	Amy Judd	Angus King
Alex Spremberg	Amy Maitland	Anina Burns
Alex Weeda	Amy Parker-Brown	Anita Downing
	Amy Vos	Anita Staude

Anja Gramueller-Southon	Anthony Negus	Barbara Sciesinski
Anjea Travers	Anthony Poutsma	Barbara Sing
Ann Butcher	Anthony Ross	Barnabas Courtauld
Ann Callen	Anthony Ross	Basil Schur
Ann Templeton	Anthony Tolomei	Bastiaan Van Dalen
Ann Ward	Antoinette Dennington	Beata Stasak
Anna Fatovich	Antonio Mazzella	Beatrix Niblett
Anna Huband	Aodhan Newton-Creemers	Beattie Kostera
Anna Huband	Apolonia Koens	Becky Chilcott
Anna Kelly	April Page	Bee Industry Council of WA Brendon Fewster
Anna Ramrath	Aran Speldewinde	Bek Ireland
Anna Ricciardone	Ariane Cullen	Belinda Ciurleo
Anna Timmins	Arthur Hanlon	Belinda Gibson
Anna-Rosa Baker	Asher Altschuler	Belinda Le Grice
Anne Parker	Ashlea Reale	Belinda Steele
Anne Bruynel	Ashlee-Rose Burgess	Bella Harding
Anne Clark	Ashleigh Eves	Ben Macintosh
Anne Del Fante	Ashley Kennedy	Ben Greatwich
Anne Jones	Ashley Schipp	Ben Grenfell
Anne Mcbeath	Audrey Bolger	Ben Lawrence
Anne Moran	Audrey Boon	Ben Stafford
Anne Pekaar	Aurelia White	Ben Swan
Anne Roberts	Austin Frendo	Benjamin Johnson
Anne Young	Axel Passeck	Bernard Elliott
Anneka Jorritsma	Bailey Goncalves	Bernard Mahon
Anne-Marie Copeland	Barb Dobson	Bernie Wong
Annette Almond	Barbara Banister-Jones	Bette Mifsud
Annie Keating	Barbara Colborne	Beverley Winterton
Anthelme Collardeau	Barbara Horton	Bevin Boyd
Anthony Collins	Barbara Jones	Bianca Eastaughffe
Anthony Day	Barbara Kennedy	Bill Rice
Anthony Hull	Barbara Leonard	Billy Amesz

Birgit Ecker	Brook Devine	Catherine Erbacher
Bob Buckby	Bruce Greene	Catherine Hall
Bonnie Craig	Bruce Mason-Jones	Catherine Patterson
Brad & Sally Black	Bryce Hobbs	Catherine Tweedie
Bradley Fleet	Caitlin Flett	Cathryn Audley
Bram Van Bockstaele	Caitlin Heckler	Cathy Archer
Bram Van Bockstaele	Callum Cameron	Cedric Bakewell
Branan Dubh	Cameron Douglas	Ceri Kitely
Brandon Bothma	Cara Walker	Chantal Tennant
Bree-Ann Goddess	Caralynn Hoft	Chantelle Wood
Brenda Tournier	Carmen Jones	Charlie Batchelor
Brenda Van Zalm	Carol Giompaolo	Charlie Trevena
Brenda Wilkinson	Carol Wakely	Charlse Newman
Brendan Boyle	Carole Perry	Charmaine Murrell
Brendan Witham	Caroline Perks	Cheryl Bradley
Brendenn Griffiths	Caroline Abbott	Cheryl Jackson
Brenna Day	Caroline Baertling	Chilla Bulbeck
Brett Armstrong	Caroline Horobin	Chris Berrill
Brett Jones	Caroline Kirk	Chris Ballantyne
Brett Lothian	Caroline Perks	Chris Botman
Bri Mckenzie	Caroline Sévilla	Chris Cocks
Brian Fleming	Carolyn Auton	Chris Curry
Brian Mollan	Carolyn Boranga	Chris Gaynor
Brian Morris	Carolyn Caruso	Chris Hope
Brian Osborne	Caron Passmore	Chris Marr
Brian Spittles	Carrie Oconnell	Chris Swain
Brian Tomlinson	Casey Emory	Christa Neuber
Brian Waldron	Cassandra Nardizzi	Christina Marruffo
Bridget Ball	Cassie Marriott	Christina Ross
Bridget Seaton	Cath Tubnor	Christine Ezzy
Bronwyn Grieves	Cath Wood	Christine Gregory
Bronwyn Scallan	Catherine Baudains	Christopher Harris

Cindy Solonec	Daniel Osborne	Deb Woodman
Clare Chamberlain	Daniela Bradley	Debbie Tiernan
Clare Chamberlan	Daniela Egloff	Deborah Bevan
Clare Smith	Daniele Clark	Deborah Gare
Claudia Harry	Daniele Prongue	Deborah Russell
Clayton West	Daniella Davi	Debra Salahuddeen
Clive Wilkinson	Danielle Foote	Debra Wilson
Colin Clarke	Darren Helsby	Declan Ball
Colin Guest	Darren Lumb	Deidre Moderacki
Colin Hall	Darryl James	Deidre Seeley
Colin Lynn	Daun Crozier	Denelle Kennedy
Colleen Cleaver	David Allen	Denise Lytle
Colleen Hayman	David Buckley	Denise Yabsley
Conor Lawson	David Buswell	Denisia Menglet
Corinne Brokken	David Collins	Dennis Collins
Courtney Abernethy	David Hill	Deon White
Craig Boyd	David Jenn	Di (Nerine) Van Santen
Craig Perry	David Kelly	Di Van Santen
Craig Spittles	David Marshall	Diamond J Legend
Cristina Cilla	David North	Diana Malone
Cristina Tirelli	David Pond	Diana Mcginn
Cynthia Innes	David Sweet	Diana Whimp
Cyril Edwards	David Thomas	Diane Gaffney
D. Deegan	David White	Diane Herbert
Dale Curtis	Dawn Ambrose	Diane Moore
Dale Taylor	Dawn Crabb	Dianne Brooks
Damien Mandin	Dawn Fish	Dion Leeuwenburg
Dana M	Dawn Jecks	Djava David
Dani Wright Toussaint	Dean Beaver	Don Pugh
Daniel Keel	Deanne Blake	Don Robson
Daniel Long	Deanne Leber	Don Yates
Daniel O'Rourke	Deanne Moulden	Donna Cervantes

Donna Smullen	Elizabeth Mclean	Evie Burke
Dora De Luca	Elizabeth Thomas	Ewan Buckley
Dorinda Kelley	Elizabeth Wilkes	F Gallon
Dot Terry	Ellen Ossendrijver	Fay Forman
Dottie Firth	Ellen Paynter	Federico Busio
Doug Krause	Eloise Ford	Felicity Cahill
Dr Allan Kelman	Emilie Ingate	Felicity Haynes
Dr Bevan Buirchell	Emily Caruso	Finn Pearson
Dr Keira Mckenzie	Emily Randles	Fiona Priskich
Dr Liana Joy Christensen	Emily Richards	Fiona Vanderkley
Dr Lyn Wallace	Emma Capelli	Flavia Pardini
Dr Nerida Riley	Emma Jerrett	Fleur Greentree
Duncan Leggoe	Emma Massenbauer	Flynn Gillie
Duncan Saunders	Emma	Fran Mcallen
Duncan Veitch	Emma Reynolds	Frances Bell
Dy Davenport	Emma Schmitt	Frances Chadd
Dylan Smith	Emma Stock	Frances Goff
Ed White	Emma-Jay Deuter	Francis Fernando
Edelfraud Baker	Emmanuel Fardoulis	Francis Kotai
Edward (No last name)	Eric De Sousa	Francisco Munoz
Edward Marynowicz	Eric Findlay	Frankie Seymour
Edward Radford	Eric Gleadell	Franklin Hynes
Eileen Whitehead	Eric Lindgren	G Faull
Elaine Becker	Eric Metrot	G Projects
Elaine Garrod	Erica Dearle	Gabrielle Kuret
Elaine Pendlebury	Erin Yeates-Humberston	Gabrielle Doolan
Elaine Winter	Erina Young	Gaby Hinchliffe
Elijah Archibald	Erma Lewis	Gail Bergin
Elizabeth Coates	Eryn Jackson	Gail Bloomer
Elizabeth Eaton	Eugene Chattelle	Gail Henzell
Elizabeth Gibbons	Eva Cicmirko	Gail Taylor
Elizabeth Kingsford	Eversley Mortlock	Garry Ryan

Gary Collinson	Glenda Shomaly	Helen Barnes
Gary Kentfield	Glenise Slee	Helen Burns
Gary Maddison	Glenn Evans	Helen Child
Gary Palma	Glenn Jones	Helen Day
Gary Slee	Glenn Mallaby	Helen Gardner
Gary Steadman	Glenn Nagy	Helen Jordan
Gary Williamson	Glenys Davies	Helen Martin
Gavin Cerini	Gordon Hansom	Helen Moxham
Gayna Luck	Gorica Panich	Helen Scott
Gemma Hohnen	Grace Cleary	Helen Taplin
Genevieve Doran	Graham Velterop	Helen Tyas Tunggal
Genevieve Erskine	Grant Howard	Helena Tippett
Genevieve Hull	Grant Porteus	Hellen Leever
Geoff & Jackie Jones	Gregory Abbott	Hendrik J (Rob) Versluis
Geoff Holt	Gregory Pastoll	Henrietta Hoffman
Geoffrey Bourgault	Gretta Little	Henry Strahan
Georg Keml	Guy Mcdonald	Herman Quakkelsteijn
George Burns	Hakan Kemal	Hugh Alderson
George Crisp	Hala Bereza	Ian & Chaliaw Morris
George Golowyn	Hamish Maclean	Ian Dunn
Georgia Fellows	Hanna Wood	Ian Kruger
Georgia Fletcher	Hannah Jawad	Ian Pershouse
Georgina Wright	Hannah Lister	Imke Neale
Geraldine Pillinger	Hans Hug	Inge Bjorkman
Geraldine Simmoms	Harmony Romsloe	Inggrid Teh
Gerard Mazza	Harry Gray	Ingrid Barker
Gill Sheridan	Hazel Bradley	Ingrid Cattley
Gill White	Hazel Masters	Ingrid Ryan
Gillian Archer	Heather Cross	Ingvar Anda
Gillian Hill	Heather Dyer	Iolanda Francis
Gillian Ollerenshaw	Heather Hamilton	Iole Harper
Giz Watson	Heather Williams	Irene Callahan

Irene Clarke	Jamie Colquhoun	Janine Pierre
Iris Domeier	Jamie Van Jones	Janine Roberts
Irma Lachmund	Jamnes Danenberg	Janine Simpson
Isaac Maiolo	Jan Blomfield	Janine Vinton
Isabella Tripp	Jan Hewison	Jannine Mansell
Isabelle Gagnoni	Jan McMullen	Jarod Bui
Isolde Tietz	Jan Sooby	Jarrad Eves
Iswari Jarratt	Jan Star	Jarred Pedro
J. Vangiessen	Jan Watson	Jarrood Tan
Jacinta Keeble	Jana Crooks	Jason Bruce
Jack Fahey-Gilmour	Jane Bremmer	Jason Ginn
Jack Herry	Jane Daly	Jayden Hopper
Jackie Curtis	Jane Donovan	Jayme Bergman
Jacqueline Gilmour	Jane Hammond	Jean Le Quesne
Jacqui Fawcett	Jane Hebiton	Jeanette Bray
Jade Allen	Jane Hilton	Jeanine Vornehm
Jade Ikin	Jane Long	Jean-Marie Gobet
Jael Johnson	Jane Loveday	Jeff Fahey - Gilmour
Jai Clementson	Jane Maywood	Jeff Stevens
Jaime Fazackerley	Jane Paterson	Jeffrey Kenworthy
Jake Scholes	Jane Putland	Jemma Todd
Jakub Chrbolka	Janet Pan	Jenni Davies
Jalina Khan	Janet Forman	Jennie Cary
James Anderson	Janet Holder	Jennifer Bryce
James Bailey	Janet Huisman	Jennifer Patterson
James Birkin	Janette Duffy	Jennifer Seccull
James Bryant	Janette Huston	Jennine Tabb
James Galvin	Janette Huston	Jenny Josephs
James Hanlon	Janette Sharman	Jenny Gregory Am
James Lynch	Janette Wheare	Jenny Ilasi
James Mumme	Janey Glauser	Jenny Moyles
James Murphy	Janice Banks	Jeremy Fitzpatrick
James Reynolds		

Jess Hay	Joel Torrens	Joni Sercombe
Jesse Smith	Joelene Lyons	Josephine Archibald
Jessica Albrow	Joelle Cullen	Josephine Denardi
Jessica Forth	Johanna Mitchell	Josh Marshall-Clarke
Jessica Grant	Johanna Stehbauer	Josh Martin
Jessica Morris	Johannes Pannekoek	Joshua Porteus
Jessie Reynolds	John Auer	Joy Beech
Jill Stryk	John Bailey	Joyce Grajczyk
Jill Warnock	John Beattie	Joze Goodwin
Jim Stuart	John Bishop	Jozef Kinal
Jim Thomson	John Bradley	Judith Deane
Jimberly Heart	John C Massam	Judith Herring
Jo Bussell	John C. Massam	Judith Hugo
Jo Hearnden	John Davey	Judith Kenny
Jo Jackson King	John Dunn	Judith Westwood
Jo Needham	John Eaton	Judy Edwards
Jo Pallavicini	John Eyres	Judy O'Donnell
Joachim Garrick	John Haycraft	Jukka Lehtonen
Joan Hammersley	John Hill	Julia Begg
Joana Partyka	John Hindle	Julia King
Joann Koch	John Kelly	Julia Mateljan
Joanne Ballantyne	John Law	Julia Meldrum
Joanne Carter	John Piercey	Julia Wallis
Joanne Debaughn	John Roach	Julia White
Joanne Head	John Tate	Julie Badger
Joanne Liddelow	John Toohey	Julie Excell
Joanne Wicks	John Tougher	Julie Fowell
Jocelyn Kavanagh	Johnny Crouch	Julie King
Jocelyn Milward	Jolande Macknay	Julie Rosiere
Jodie Berryman	Jonas Hollingworth	June Graham
Jody Sgro	Jonathan Francis	June Hutchison
Joel Mcsherry	Jonathan Lester	June Leipoldt

Justin Bajada	Katelyn Stubberfield	Kenneth Lapointe
Justin Humin	Kath Ford	Kenneth Stothard
Justine Dodd	Katherine Gaschk	Kent Broad
Kaeding Renee	Katherine Leslie	Keri James
Kaitie Tucker	Katherine Mccracken	Kerry Brown
Kaitlin Fleming	Katherine Russell	Kerry Mckernan
Kalan Hall	Katherine Saunders	Kerry Reid
Kane Mcdonald	Kathryn Gray	Ketrina Keeley
Kane Ramirez	Kathy Couper	Kevin Brady
Karen Collopy	Kathy Taylor	Kevin Brown
Karen Grigson	Katrin Menard	Kevin Fowkes
Karen Hall	Katrina Boldt	Kevin Mcdonnell
Karen Hodson	Kay Bradfield	Kevin Payne
Karen Kuhl	Kay Gwynne	Kevin Vaught
Karen Malley	Kay Hage	Kieran Kuskopf
Karen Mather	Kaye Cook	Kim Brooks
Karen Peradon	Kaye Felgate	Kim Flintoff
Karie Morton	Kayla Christiansen	Kim Greenham
Karl Boeing	Kayla Sellwood	Kim Hamilton
Karl Raszyk	Kehan Harman	Kim Minos
Karla Murphy	Keir Sooby	Kim Richards
Karri Tooley	Keith Colley	Kim Veale
Karrina Smallman	Keith Solly	Kirstine Forestier
Kashmir Rouw	Keith Vagg	Kirsty Hitchman
Kate House	Keitha Bodenham	Kiyotaka Kasai
Kate Kenner	Kelli Russell	Kristen Wuillemin
Kate Lawson	Kelli Summerfield	Kristine Ostermeyer
Kate O'Rourke	Kelly Hammond	Kristine Thomson
Kate Reynolds	Ken Cotter	Kristy Gregory
Kate Russell	Ken Mccaw	Kristy Robinson
Kate Sputore	Ken Waterhouse	Kundu Liven
Kate Van Montfoort	Kenneth Allen	Kyle Chrystie

Kylie Greer	Leila Folland	Lisa Lumb
Kylie King	Leilani Leyland	Lisa Moore
Kyllie Deltondo	Leith Tierney	Lisa Pemberton-Ovens
Kym Buttery	Lenore Reeves	Lisa Williams
Lachlan Opie	Leo Kerr	Lisabeth Finn
Lachlan Petersen	Leoanrd Warren	Liz Tilmouth
Laine C	Leonard Warren	Lizzie Hill
Lance Stringer	Leone Pitman	Lizzie Troup
Lance Whitewood	Leoni Plunkett	Lola Star
Lannie Riley	Leonie Jones	Lorenzo Cola
Larissa Hurrell	Leonie Walton	Loretta Donnelly
Laura Bindi	Les Phillis	Lorna Buchan
Laura Strentz	Lesleigh Curnow	Lorraine Clifford
Laurel Sutcliffe	Leslie Harrison	Lorraine Toone
Lauren Street	Leslie Hodgson	Lou Corteen
Lauren Wilhelm	Lewis Kardol	Lou Pynenburg
Laurynne Joyce	Liam Lynch	Lou Scampoli
Lawrence Johnson	Liam Tall	Louis Pallavicini
Leah Van Der Meulen	Linda Carroll	Louise Berman
Leanda Wright	Linda Du Boulay	Louise Burrows
Leanne Baskerville	Linda Howlett	Louise Dean
Leanne Sawyer	Linda Johnson	Louise Gadsby
Lee Fretz	Linda Johnston	Louise Hammond
Lee Goodall	Linda Taylor	Louise Helfgott
Lee Joyce	Linda Thorpe	Louise Loosmore
Lee Paine	Linda Tiltsen	Luca D'Angelo
Lee Perry	Lindsay Adams	Luciano Scampoli
Lee Rogalasky	Lindsay Baker	Lucile Bourguet
Lee-Anne Groenewegen	Lindsay Mugglestone	Lucy Day
Leena Mitra	Lindsay Stewart	Lucy Worgan
Leigh Mcgowan	Linlee Pontifex	Luke Howell
Leigh Ridden	Lisa Grant	Luke Sweet

Lydia Gardiner	Margaret Owen	Martin Oliver
Lyn Coskun	Margaret Went	Martin Robinson
Lyn Robson	Margarite Reynolds	Martin Timms
Lyn Utting	Margie Kristofich	Martina Prentice
Lyn Weigall	Margot Blakey	Mary Apsenieks
Lynda Moylan	Maria Di Paolo	Mary Blight
Lynda Woodhams	Maria Gray	Mary Ellen
Lynette Chen	Maria Mcadam	Mary Flynn
Lynette Mccrindle	Maria Sola	Mary O'Byrne
Lynette Robley	Maria Tonks	Mary Peck
Lynn Dainton	Marianne Neave	Mary Rath
Lynn Deering	Mariesa Greenwood	Mary Smuts
Lynn Gauntlett	Marina Chessa	Maryanne Connelly
Lynn Maclaren	Marion Treasure	Matej Golias
Lynn Phillips	Marita Keenan	Matt Biocich
Lynn Thomas	Marjory Fleming	Matt Blakers
Lynne Carlin	Mark Abbott	Matt Hawksworth
Lynne Strudwicke	Mark Cain	Matt Olszewski
Madeleine Blakers	Mark Forde	Matthew Curry
Madison Mackenzie	Mark Goodman	Matthew Salmons
Maggie Shanklin	Mark Gould	Maureen Smith
Mai Wong	Mark Gretton	Maureen Huxley
Mal Anderson	Mark Harvey	Maureen Janis Bunn Coelho
Mandy Hodgson	Mark Jeffery	Maureen Steele
Marc Osborne	Mark Johnson	Maurice Perry
Marco Lombard	Mark Macrauld	Maxine Butcher
Marco Nardini	Mark Mcgough	Meagan Bliss
Marcus Middleton	Mark Phillips	Meegan Cullen
Marek Cicchini	Mark Simpson	Megan Packer
Margaret Farquharson	Mark Teasdale	Megan Petty
Margaret Howkins	Marlie Wanseth	Mel Adriansz
Margaret O'Donnell	Marta Gorecki	Melanie Isaacs

Melanie Trenow	Mikayla Hollyock	Nathalie Casal
Melinda Payne	Mike Hulme	Nathan Beavan
Melissa Boyko	Mike Kenny	Nathan Blankley
Melissa Pinner	Milan Chandaria	Nathan Browne
Melissa Radman	Miles Noel	Ned Jordan
Melissa Wheeler	Milithza Silva	Nell Thayne
Melissa Wood	Mina Roberts	Nelson Di Pardo
Melville Davies	Mira Clohessy	Neville Kirk
Meredith Luke	Miranda Cooper	Nguyen
Meredith Robertson	Miranda Kippert-Hughes	Nichola Vecchiato
Merri Harris	Miriam Brooker	Nicholas Doyle
Merrilee Baker	Moira Bandt	Nicholas Gahan
Merriwyn Spicer-Wensley	Monica Leggett	Nicholas Morgan
Michael Andrews	Monica Main	Nick De Koning
Michael Bellman	Monique Tippett	Nicola Carson
Michael Brant	Murielle Bodenham	Nicola Tame
Michael Dowling	Nadia Hartzenberg	Nicole Trudgeon
Michael Farnell	Nadia Howe	Nicole Wilkinson
Michael Hemmings	Nadia Levy	Nicole Workum
Michael Hosking	Nadia Martino	Nigel Tyler
Michael O'Shea	Najwa Hassan	Nikki Starr
Michael Payne	Nancy Parker	Nikolas Cutten
Michael Pickup	Nancy Paterson	Nils Steffens
Michael Stegherr	Nancye Miles-Tweedie	Nina Stick
Michaela Francis	Nanette Hassall	Noelene Spinks
Michelle Houston	Naomi Andrews	Noelle Johnston
Michelle Mackenzie	Nardia Bordas	Nola Kinal
Michelle Murtagh	Nari Lees	Nolan Penning
Michelle Sheridan	Natalie Anne John	Norma Cheeseman
Michelle Vuillat	Natalie Mcgrath	Norman Jackson
Mick Abberley	Natasha Campbell	Norman Pater
Miguel Gregorkiewitz	Natasha Tay	Oliver Cardona

Olivia Salvage	Paul Desmond	Peter Gardner
Orien Harvey	Paul Dobrowolski	Peter Gordon
Oska Flood	Paul Frick	Peter Grayling
P. Desmond	Paul Jarvis	Peter Green
Paddy Cullen	Paul Kidd	Peter Hazelwood
Paige Birnberg	Paul Lewis	Peter Hunt
Pam Nicol	Paul Longva	Peter Morcombe
Pam Van Efrink	Paul Payten	Peter Newman
Pamela Bell	Paul Scallan	Peter Schultz
Pamela Bell	Paul Stone	Peter Simpson
Pamela Fruin	Paul Wilkinson	Peter St Clair-Baker
Pamela Gunn	Paul Wilson	Peter Swanson
Pamela Shearer	Paula Paul	Peter Tietz
Paris Bodycoat	Paula Samdon	Phil Jackson
Paris Chisholm	Pauline Hale	Philip Rogerson
Parissa Goodwin	Pauline Lee	Philip Stockton
Pat Copland	Pauline Mcmim	Pia Sweeting
Patricia Bridson	Peg Davies	Piera Collins
Patricia Gilmour	Peggy Hodgson	Pieter Poot
Patricia Hines	Penelope Copson- Pacal	Pilar Barranco
Patricia Johnson	Penelope Mossop	Pip Hoy
Patricia Lalor	Penny Mckeague	Pippa Hurst
Patricia Mcauliffe	Peta Fitzgerald	Polly Delany
Patricia Newton	Peta Goodwin	Poppy Van Oorde- Grainger
Patricia Nield	Peta Nutt	Quentin Bligh
Patricia Norden	Petal Voss	Raana Scott
Patricia Rovik	Peter Brazier	Rach Bull
Patrick Conaghan	Peter Chandler	Rachael Rees
Patrick Hyslop	Peter Condon	Rachel Deeley
Paul Bird	Peter Feszczak	Rachel Potter
Paul Clements	Peter Fitzgerald	Rachel Rainey
Paul Desmond	Peter Forster	Rachel Rainey

Rachel Snell	Richard Yin	Ronald Pannek
Rachel Watts	Richelle Ryan	Rosa Hicks
Rae Price	Rick Zuromskis	Rosaleen O'Neill
Rae Young	Ricky Dankwa	Rosalie Miles
Raina Terese	Rishi Pike	Rosamund Downing
Ralph & Lynne Darlington	Rita Phillips	Rosamund Macfarlane
Ramin Danesfaleh	Rita Titley	Rose Ferrell
Rana Elali	Ro Clarke	Rosemary Blemings
Randa Khamis	Rob Clifton	Rosemary Elbery
Ray Flanagan	Rob Feast	Rosemary H
Raymond Brown	Rob Robinson	Rosie Baker
Raymond Robertson	Rob Rowe	Rosie Ryan
Rebecca Brown	Robert Day	Ross Copeland
Rebecca Hilder	Robert Frith	Ross Le Quesne
Rebecca Ludemann	Robert Kenneth Tweedie	Rowan Newton
Rebecca Mcqueen	Robert Nelson	Roweena Hart
Rebecca Page	Robert Spinks	Rowena Walsh
Rebecca Robertson	Robin Collin	Roz Hart
Rebecca Stubley	Robina Maitland-Smith	Rry Robinson
Rebecca Tanner	Robyn Hearn	Ruby Hamilton
Rees Barrett	Robyn Todd	Russell Lejeune
Reg Went	Robyn Wolmarans	Rusty Rouse
Renita Whittle	Rocky Terry	Ruth Adshead
Reza Vojouhi	Rod Whittle	Ruth Ganley
Rhonda Green	Rodney Simpson	Sabine Hecht
Rhys Jones	Roeli Joosten	Safian Paul
Richard Gill	Roger Cunnington	Sal Mustang
Richard Little	Roger Duggan	Sally Bales
Richard Prosser	Rom Aguilar	Sally Dare
Richard Quinlan	Romola Watson	Sally Mullins
Richard Smith	Ron Mclean	Sally Smith
Richard Watson	Ron Renton	Sally Stoneman

Sally Ward	Shanelle Hill	Sonia Emery
Sally Wylie	Shannon Hawkins	Sonny Rolfe
Sam Entwistle	Shannon Ogrady	Sonya Hennessy
Sam Newman	Shannon Walsh	Sophie Cross
Samantha Blythe	Shapelle Mcnee	Sophie Lane
Samantha Lynch	Sharon Cleary	Sophie Morrison
Samantha Owen	Sharon Genovese	Stan Maley
Samantha Randell	Sharon Genovese	Steffi Elles
Samantha Sweet	Sharon Parker-Brown	Stephanie Faulkner
Samuel Bean	Sharon Parker-Brown	Stephanie Roe
Sandra Arnold	Sharon Ramel	Stephanie Tarbin
Sandra Clark	Sharon Staniforth-Smith	Stephanus Becker
Sandra Giles	Sharon Wilkinson	Stephanus Becker
Sandy Taylor	Sharon Woods	Stephen Andrew
Sapphire Fox	Shauna Harrison	Stephen Clark
Sara Boranga	Shay Flinn	Stephen Cox
Sara Marques	Shazar Robinson	Stephen Laverack
Sara Terry	Shel Thorpe	Stephen Yuen
Sarah Ayres	Shelley Davies	Steve La Puma
Sarah Du Preez	Shelley Gillespie	Steve Dreher
Sarah Flynn	Shirley Driver	Steve Harris
Sarah Malacari	Sid Hennessy	Steven Binnie
Sarah Nix	Sienna Pallavicini	Steven Van Der Togt
Sarah Park	Silvia Lehmann	Stewart Godden
Sasha Brampton	Simon Allen	Stewart Greenhill
Sasha Kelly-Thatcher	Simon Blesrs	Stewart Judson
Satya Barnao	Simon James	Sue Caruso
Sayah Drummond	Simon Kilbane	Sue Day
Sean Corrigan	Simone Booth	Sue Dennis
Shane Devries	Simone Marsh	Sue Grey-Smith
Shane Drew	Sky Dawson	Sue Italiano
Shane Sutcliffe	Sonia Dezius	Sue Kalab

Sue Mccarthy	Tamara Demiris	Tom Pearsall
Sue Sacchero	Tamara Egloff	Tom Wilson
Sumedha Herath	Tamilla Trivett	Tony Clark
Sunny Miller	Tania Harrison	Tony Danzi
Susan (Sue) Ashford	Tanja Rieger	Tony Gie
Susan Allen	Tanya Crewe	Tony Sandaver
Susan Boyd	Tanya Wells	Tony Sheard
Susan Boyland	Tara Banken	Tori Franks
Susan Butcher	Tara Gregory	Tracey Foster
Susan Clarke	Taryn Haynes	Tracey Smith
Susan Cox	Tegan Allum	Tracy Frawley
Susan Dale	Terence O'Meara	Tracy Skippings
Susan Flavell	Teresia Lindberg	Trevor Larke
Susan Gerrard	Terri Holyday	Trey Rickerby
Susan Lee	Terry & Lynn Lightfoot	Tricia Edwards
Susan Margaret	Terry Kain	Trish Calder
Susan Monson	Tess Shipley	Trish Haste
Susan North	Tessa Murray	Trish Owen
Susan Overheu	Theresa Cowley	Trish St Clair
Susan Paterson	Theresa Youngs- Lachmund	Tristan Clark
Susan Quong	Thomas Dunn	Tristen Tan
Susan Starr	Thomas Eric Moxham	Tyko Kirsner
Susan Swain	Thomas Timpe	Ute Goeft
Susan Swain	Thomas Yeats	V Eat
Susan Thorman	Tim Charles	Val Humphrey
Susan Wellington	Tim Davies	Valerie Byford
Sussan Hawkins	Tim Heckler	Valerie Hemsley
Suzanne Cole	Tim Viljoen	Valerie Law
Suzanne Worner	Tina Makdesi	Vanessa Huesges
Sylvia Travers	Toby Sacree	Vanessa Smith
Tahnee Roberts	Tom Greble	Vanessa Wood
Talia Ward	Tom Long	Vanya Radovcich

Veerle Vandernickel
Veerle Vandersickel
Verena Homberger
Verónica B.
Vi Saffer
Vic Bostock
Vicki Caulfield
Vicki Clark
Vicky Kerfoot
Vince Puccio
Vinith Menezes
Vishna Dodia
Vivienne Doonar

Vlado Vinkovic
W.S. Siah
Warren Birkinshaw
Wayne Hall
Wayne Monks
Wayne Webb
Wendy Chapman
Wendy Corrick
Wendy Dickson
Wendy Koh
Wendy Lee
Wendy Morris
Wendy S

Wendy Steed
Wendy Stewart
Will Berliner
Winsome Dockter
Xavier Brown
Yanna Job
Zara Hockey
Zara Matthews
Zavier Potter
Zelda Marsh
Zoe Oakley
Zoe O'Neill
Zoe Rumble

Modified responses

The table below lists respondents who have modified the content of the pro forma submission. All text is verbatim and therefore has not been corrected for spelling or grammar.

Respondent	Modified content
Adrian Hicks	<p>My first questions is: Why isn't Australia leading the world in Solar energy? It seems our only focus for the future is digging up fossil fuels.</p>
Adriana Pracas	<p>I have read through the email below and agree wholeheartedly with every point. Our government needs to listen to and act according to scientific advice. It needs to think long term, and start transitioning Western Australia to a renewable energy and new service/tourism industries, as opposed to fossil fuels. This is the right thing to do. The only issue I care about at the moment and vote on is acting on climate change. Everything else is secondary.</p>
Allan Harvey	<p>(7) provide Western Power and Synergy with the support they require from our politicians and our state government to fast track those initiatives that they have been working on to switch suburbs and out lying areas of WA to renewable energy.</p>
Allison Carnegie Smith	<p>Thank you for legislating to protect our beautiful country into the future by undertaking the above actions. Our environment is our home and it is struggling with man-made catastrophes which could be avoided. Mother Nature needs our support not continuing degradation.</p>
Amanda Scotland	<p>While the below email is not my own I have read every point and thoroughly and wholeheartedly agree with every point.</p> <p>Switching to renewables and instilling and legislating greater care for our natural world is not just about climate change - it's about moving forwards and eBaying our economy is diverse and future proofed. The world and our power sources are no longer aligned and switching to better more efficient energy sources is smart for jobs, a diverse economy, for reducing carbon emissions and for innovation. Please please show some strength and leadership and do what is ethically right and economically smart.</p>

Amber Flynn	You must do this now
Andrew Haskell	1) Immediately halt biodiversity loss and actively regenerate our forests
Andy Farrant	Like the majority of Australians I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government?
Andy Hughes	We are uniquely placed in WA to become a global powerhouse for the development and export of green energy solutions. We can take massive action on climate change and deliver thousands of new jobs and opportunities as we become part of the global solution.
Ann Butcher	I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government in order for my grandchildren not to be faced with an ongoing climate catastrophe? I am extremely disappointed that WA is lagging behind the rest of Australia in terms of real action on climate change. The Climate Council report released this week shows that WA is one of the worst performers when it comes to investing in renewable energy and zero emissions targets. As well, your nobbling of the Environmental Protection Authority earlier this year, (which had produced some reasonable expectations for future developments to abide by), in the face of squealing from some of the biggest polluters in this state, was reprehensible.
Ann Callen	<p>I am also very deeply worried about the potential damage that will be done by unconventional gas drilling including fracking in the shire of Gingin where I live. This is not an entirely selfish worry, Perth residents rely on the water supplied by Gingin shire for it's drinking water and to a huge extent their food. I am 75 so the long term effects may not be an issue to me but they will be to my 8 year old granddaughter and all those other children, including yours who are relying on the state govt to do the right thing.</p> <p>Thank you for considering this submission and please remember that while I would not vote for the Liberal because they are a known bunch of crooks there is now a very strong chance, that if you put our water supplies in jeopardy, I will decide never to vote Labour again.</p>

<p>Anna Huband</p>	<p>Only after the last tree has been cut down, Only after the last river has been poisoned, Only after the last fish has been caught, Only then will you find that money cannot be eaten' - Cree Indian Prophecy</p>
<p>Anna Kelly</p>	<p>The science of anthropogenic climate change has effectively been settled for two decades, and no serious government can ignore the policy implications." - Premier Mark McGowan 12 Feb 2019</p> <p>It's time to stand up and make a difference, put WA on the map for being proactive. For our childrens future please listen.</p>
<p>Anna Ramrath</p>	<p>6) In order to be able to make the difficult decisions needed (tell the truth about the big emitters and get them to pay for their emmissions) the government needs the help of a citizen's assembly.</p>
<p>Annie Keating</p>	<p>I have been concerned about climate change from when I first learned about carbon cycling as a student of ecology in the 1970s. Now I'm more than concerned. I'm distressed and extremely anxious about the future of my loved ones and of the whole planet, its precious ecosystems and all of the billions of living things that rely on her.</p> <p>I'm concerned that WA has become an extractive State to the detriment of our natural environment and our health as carbon pollution is rising out of control. We can do so much better given our amazing wealth of sunshine, wind and water power. Real action on climate change should be delivering thousands of new jobs and opportunities as we become part of the global solution.</p> <p>I am grateful to live on the land of the Wadjuk Noongar people of South West Australia, who have never ceded their country to anyone. Every day I acknowledge and feel a deep respect for their elders past and present.</p>
<p>Anthony Poutsma</p>	<p>In response to calling for submissions on the subject above, I present the following; My background: I am an Airline pilot who started out in the backseat of my fathers light aircraft at the age of 8 and have now accrued over 50 years of passive atmospheric monitoring. Over those years I observed firsthand that our atmosphere is visibly changing. Whilst I have obtained and deploy a very specific skill set as a pilot, my industry</p>

also relies on the science, engineering and forecasting of others to keep me and my passengers safe, in that high altitude, dynamic and lethal environment. Similarly I trust and applaud those individuals who grapple to understanding the climate science of our world, one that protects and nurtures human kind from the deadly environment of the surrounding cosmos. Climatologists and their supporters are not the enemy, they are the very people trying to ensure our survival.

The state of affairs:

As I witness the visible deterioration of our atmosphere and realise there is no other place for us to go, I am drawn to read the reports and climate forecasts of those experts who have spent their life studying this complex, specialist field. It seems obvious that understanding the wider interactions and implications of climatology is an emerging field, yet despite this fact, long range climate forecasts, particularly in regards to temperature, have been tracking to the higher, or more alarming end, of the predicted spectrum. CO2 levels in the atmosphere have already exceeded the recommended climate science maximum of 400 parts per million. Furthermore they are continuing to exponentially increase, along with other more damaging emissions, such as methane.

Whilst climate sceptics offer opinions that the future is looking rosy, with little to support their view but the economic dogma of 'business as usual', extreme weather events continue to be ever more prevalent around the globe. To those who are sceptical I simply say this, regardless of the science vs opinion vs the wider political desires, vs personal observation, just consider our neighbouring (CO2 saturated) planet Venus. It is a similar mass and orbits at a similar distance from the sun as Earth. It is considerably hotter on Venus than than Mercury, which orbits much closer to the sun, hot enough on the surface to melt lead. That is the climatic effect of high concentrations of CO2.

If for some reason such a stark and obvious example does not resonate, there other, closer to home, indicators to take note of, such as the cost of insurance. The insurance database reaches back to the inception of the industry. They employ actuaries that arguably enable the highest possible human analytical economic modelling of the future. Their ever increasing insurance premiums indicate a pragmatic agreement with the current climate science and trends, calamity, and costs, are on the rise. That these smart corporations, who have zero political, emotional or social interest whatsoever, predict such a future is an indictment on where we are not so blindly headed.

On a social scale we will see more wars. The Syria conflict and

Arab Spring started with a drought that dried up the Euphrates River for the first time in recorded history, displacing thousands of subsistence farmers who migrated to the cities in search of non-existent assistance. In third world countries, where there are few public services and little support, enormous numbers of desperate people will view travel to Western countries via ever opportunistic 'people smugglers' a worthy risk.

Our future costs of providing food, protecting our worldly goods and infrastructure and of policing and protecting our unique lifestyle in a world gone environmentally and socially mad will be, like our current policies, un-sustainable.

All of a sudden our fixation with economic growth being more important than anything else seems self defeating. So yes, I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government?

Australia's contribution:

As a nation, our direct consumption greenhouse gas emissions footprint might only be a fraction of the worldwide total, yet significantly, we are the second highest country per capita. More importantly, if we include the greenhouse gases generated from the production and burning of our fossil energy exports into the equation, then we suddenly are thrust upon the world stage as a major player in setting the future course of our planet. It is no excuse to say others will provide that coal and gas to the existing market, just as it is no excuse to say others will take action, whilst we will continue to enjoy one of the highest levels of living in the world, at everyone else's expense. Until we acknowledge we are all in this together as a planet, that climate change and greenhouse gas emissions do not recognise sovereignty or political borders, our collective inaction will result in our collective downfall.

In WA greenhouse gas emissions are rising anyway, but current policy direction will see such emissions rise much more significantly in the future. Conversely, switching from promoting and subsidising the fossil fuel industry to the promoting and encouraging renewable energy infrastructure development would not only lower emissions, it would deliver thousands of new jobs and opportunities in the state of WA. It would also future proof the economy, embracing a trending global industry that supports a solution, in a future where it is already predicted that fossil fuel industry assets will become stranded toxic investments.

WA's solution:

I call for a comprehensive state-wide policy on climate change that

includes the following at a minimum:

1) Immediately plan to reduce WA's greenhouse gas emissions to achieve a zero net result by 2050. Legislate to deliver science-based interim targets and an emissions reduction pathway in line with a fair, equitable and necessary contribution, to limit global warming.

2) Remove tariffs, taxes other underlying government charges from renewable energy investment in research and infrastructure and supply. This will greatly assist business in getting on with the job of building a renewable future. As an example, biofuels should be exempt from any fuel tariffs or taxes across the board. Do that one simple step and the algae based biofuel industry will take off. Algae based biofuel production has already been researched and road-mapped. It can be grown in salt or waste water and it's byproduct is biomass for fertiliser or animal feed. Biofuel has already been tested in Diesel engines and jet aircraft. The problem is not the technology, nor the fuels environmental credentials, nor the desire of the worldwide transport industry to reduce its footprint. The problem is supply. The development of supply is being suppressed by the monopoly that the fossil fuel industry holds over business and government alike. Bio-fuel investment and production is being blocked by a fossil fuel industry insistence on having a level, fuel tax, playing field. Our futures are at stake and the time to act is now. Given the monopoly the fossil fuel industry has, that level playing field is far from level anyway and it is contributing to the undoing of our planet as we know it.

3) Plan to re-power WA with renewable energy by legislating grid infrastructure upgrades that require renewably generated grid feed in, rather than rejecting it. Legislate targets for fossil energy production being replaced by renewable energy production. Invest in wind, thermal solar and battery storage. Incorporate incentives to promote electric vehicle uptake and plan to utilise the battery storage capacity of such vehicles in a smart grid.

6) Phase out climate damaging fossil fuels, legislate against any new or expanded coal, oil or gas developments in WA, particularly LNG and fracking, where the fugitive emissions are an enormous un-known and deliberately un-accounted for factor. Coal and gas are a naturally sequestered CO₂ and methane depositories. Instead of promoting and subsidising the removal of such depositories with ill conceived promises of unproven technological offsets (such as clean coal fired powered stations and CO₂ capture and

	<p>sequestration), leave them in the ground where nature has safely stored them.</p> <p>7) Offset the loss of state royalties and export dollars by the instigation of a meaningful resources tax. Don't allow any corporation to operate or sell their wares within WA unless they make a comparable tax contribution to the State. Plan for the day of re-introducing tariffs and taxes after sustainable power, fuel and infrastructure have displaced the un-sustainable industry of yesteryear.</p> <p>As Malcolm Turnbull stated, our political system has been hijacked and held to ransom by the fossil fuel industry. Now is the time to change that fact. All these suggested changes and sacrifices which we fail to make now, will be paid for, with interest applied, by all our children and their offspring in the future. Climatologists warn of a looming potential tipping point for our planet. We are currently digging our future generations a hole from which climatologists warn there is no guarantee they will ever emerge.</p>
Anthony Tolomei	<p>Additional to the recommendations below, I recommend you listen to the people, especially the younger generation. We all know this transition MUST come and MUST happen quickly. We also know change is good and creates jobs. Be a leader, no someone who is pressured by the fossil fuel industry, be a leader and lead Western Australia towards a renewable and sustainable state. My vote will go to leaders who stand to protect what's left of our environment (which isnt much - just have a look on Google Earth how much has already been destroyed). Ps - Tell Alcoa to stop pushing over our Jarrah forests to extract bauxite and burn through half of WA's gas use to create aluminium.</p> <p>How about investing money in a state of the art recycling facility that creates thousands of jobs through the recycled products is creates and the services that then help it grow. We are a wasteful country and need leaders who implement the changes necessary to move to a renewable and sustainable future as quickly as possible.</p>
Antonio Mazzella	This is an ecosystem collapse crisis happening now . What can we do now?!!
Asher Altschuler	I am young and I am worried for my future.

Basil Schur	I live on the south coast in Denmark, a town already affected adversely by reduced rainfall and greatly increased wildfire risk.
Bee Industry Council of WA Brendon Fewster	<p>The beekeeping industry is deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government.</p> <p>We now more than ever need our asset (the native bush vegetation) protected by legislation.</p> <p>The change in climate will have a massive effect on our industry which we are starting to see the change in plant flowering patterns and the biodiversity of a number of southwest forest regions.</p> <p>I don't believe there is an industry with more anecdotal evidence of this statement and with more to lose if something doesn't change with the way our Forests are managed.</p> <p>I believe that if our industry is given the chance we could contribute to advise how to better maintain our forests with the current crisis of climate change.</p> <p>The beekeeping industry is becoming more aware of the changing honey flows occurring in our Eucalypt trees from the prescribed burning (and wildfires that seem to be occurring more frequently).</p> <p>The impact these hot burns are having is detrimental to the flowering cycles of the trees and when the fire gets into the tree canopy it can decimate a flowering event to not occur again for 5 years and above. The financial burden on the beekeepers is massive. With such a healthy bee population in Western Australia we cannot afford to risk this by not having access to this vital resource.</p>
Bek Ireland	I became aware of the climate crisis on the 13th October 2018. I am embarrassed that it took me so long, but I realise that if I didn't know, there must be so many other West Australians who also remain unaware. This government needs to tell the truth and act now. I have a 12 year old daughter, a 16 month old nephew and 12 week old niece. Will they experience food shortages when crops fail due to global warming? Will their environments be devastated by more intense heatwaves, droughts and floods made worse by anthropogenic climate change?
Ben Swan	1) Endorse the EPA call of all large projects to be carbon neutral - the large mining companies can afford this
Bette Mifsud	<p>Climate change does not recognise State or National borders—just as we are one humanity living on one earth.</p> <p>I and millions like me are deeply concerned about climate change and support strong and urgent action as a matter of highest priority</p>

	<p>for all levels of government?</p> <p>In WA carbon pollution is rising out of control. Real action on climate change will not only reduce emissions but also deliver thousands of new jobs and opportunities as Australia becomes part of the global solution.</p>
<p>Beverley Winterton</p>	<p>3) Update an old system and develop a WA resourced mainly with renewable energy, and phase out climate damaging fossil fuels - their use or developing thereof.</p> <p>4) Hold WA's biggest polluters to account. Require companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming and renewable energy. Police the existing requirements and agreements to ensure compliance while encouraging companies to achieve more voluntarily.</p>
<p>Bill Rice</p>	<p>Thank you for the opportunity to comment on the WA government's climate change discussion paper. I am deeply concerned about climate alarmists.</p> <p>They think carbon is pollution rising out of control, but we know carbon is an invisible gas occurring naturally in the atmosphere of only .04 of one percent.</p> <p>To link the two words Carbon Pollution together goes to show how ignorant the socialist green movement is.</p> <p>The socialist green agenda on climate change will impact thousands of jobs and opportunities will be lost.</p> <p>Climate changes naturally and has done so over millions of years. Solar cycles where the Sun changes, have in the recent past brought the Roman warm period and the warming Medieval period where civilisations thrived and prospered.</p> <p>There was then the mini ice age in the 1700's where the Thames river froze over every Winter. Human populations do not do so well in times of cold.</p> <p>The Earth has been gradually warming ever since as the Sun has changed along with other natural occurrences such as Volcanic activity.</p> <p>Recent ice core samples taken from Antarctica and dating back 2 million years show that CO2 levels in the atmosphere actually increase after temperatures rise and CO2 is then re absorbed mostly into the ocean when global cooling naturally occurs.</p>

	<p>Recent greening of the planet as observed by NASA satellites highlights the importance of carbon in the atmosphere. Crops do well with extra carbon so to the ability to feed the increasing populations.</p> <p>Burning fossil fuels has been of vast benefit to human populations.</p> <p>Better medicines</p> <p>Better food supplies</p> <p>Increased life expectancies and living standards</p> <p>Technology boom</p> <p>Better understanding and knowledge</p> <p>What should be of great concern is when the current solar warming cycle finishes and we go into another cooling period.</p> <p>West Australian State Labor Government should</p> <ol style="list-style-type: none"> 1) Immediately distance Labor from WA's Green socialists, they will cause jobs chaos 2) Recognise Green ideals will affect workers and communities. 3) Understand The Greens want to unwittingly and completely derail the WA economy 4) Deal with realistic public concerns. Recycling, plastics, health, congestion, build Roe 8 5) Increase controlled burning so as to avoid catastrophic fires as recently occurred in Queensland, New South Wales and Queensland 6) Support communities, farmers, local governments, businesses and other sectors. <p>There is an abundance of information on the internet that supports natural climate change observations over millions of years rather than climate alarmists theories with their computer models and whacky predictions that never happen.</p>
Billy Amesz	WE CAN NO LONGER CONTINUE TO IGNORE THIS ISSUE!
Brad & Sally Black	<p>We have a limited time to reduce the state's impact on the rapidly changing climate and whilst we may sit back and think our contribution is, overall, minimal, exporting vast quantities of LPG magnifies our CO2 contribution to unacceptable levels.</p> <p>Doing so is dangerous and ultimately self defeating. The sooner the</p>

	<p>state transitions to industries that will limit global temperature rises, the sooner our children and grandchildren will benefit.</p> <p>Sally and I thank you for the opportunity to comment on the WA government's climate change discussion paper. We are deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government?</p>
Branan Dubh	<p>In WA our level non-renewable and polluting energy consumption is unacceptably high compared to the rest of the world.</p> <p>I support an immediate response to climate science that includes a reduction of carbon emmissions, a move to renewable energy sources, penalties for petrochemical polluters and protection of forests as natural carbon stores:</p>
Brian Waldron	<p>While I currently live in NSW, I was born in WA and lived there until I was 34. I still return every year to walk fpr a month or so in the South Werst forests.</p> <p>Like the majority of Australians, I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government.</p> <p>Australia's carbon pollution continues to rise. Not only does that mean that the planet won't be able to limit global warming to less than 2 degrees Celcius, but it means that our economy will miss the great opportunities available to those who adapt quickest to the new zero-carbon future.</p> <p>WA needs to be part of th coming energy revolution. WA needs a comprehensive state-wide policy on climate change.</p>
Bronwyn Grieves	<p>I understand the need for LNG to replace coal in the short term but fracking should be stopped immediatley</p>
Bruce Greene	<ol style="list-style-type: none"> 1) Immediately remove all welfare being received by those people who cause civil disruption. 2) Deliver a fair and just penalty system that will enable these so called activists to physically perform tasks that will assist in achieving their aims. e.g. planting trees. 3) Completely repower WA with renewable energy, stand them all in front of wind turbines. 4) Hold WA's biggest polluters to account with proper penalties. 5) Permanently protect natural carbon stores?in WA's forests and other ecosystems, and rapidly transition away from native forest

	<p>logging and clearing.</p> <p>6) See if you can tilt the Earth back onto its former axis and correct the climate change we are currently experiencing.</p> <p>Perhaps it would be of assistance by properly assessing the Earth's various periods of climate change from the past 2 or 3 million years and teach understanding that it is going to happen anyway and that one day it will return to how things were once. Pick any once you desire.</p>
<p>Caroline Perks</p>	<p>I don't accept that increasing WA's emissions before quickly trying to reduce them to achieve net zero at 2050 is a realistic solution. Already over half of the global dangerous tipping points have occurred. We are now locking ourselves into a future, scientists do not think we can survive. Therefore, increasing our emissions at all should not be a part of the plan, and I would encourage the State Government to begin the process of decarbonisation now and work toward net zero emissions by 2030.</p> <p>1) Immediately reduce WA's carbon pollution and achieve zero net emissions as soon as possible with a maximum deadline of 2030. 2) Legislate to deliver science-based interim targets and an emissions reduction pathway in line with a fair and equitable contribution to limiting global warming to 1.5 degrees. 3) Develop a Climate Change Strategy Implementation Plan to align with climate legislation that outlines timeframes, responsible agencies and budgets associated with the different climate change mitigation and adaptation action required to achieve a net zero emission target by 2030. 4) Support this work by reinstating the Climate Change Agency, with adequate resourcing to guide and support this transition.</p> <p>Finally, I want to ask the Premier and the relevant Ministers, what do you want your legacy to be? What do you want to be remembered for by the people of Western Australia? I believe you have an opportunity to either be a hero to your children, or a puppet to the fossil fuel industry.</p> <p>I hope you choose to be a hero, and if so I look forward to working with you in the future on decarbonising the state and working towards net zero emissions by 2030</p>
<p>Caroline Perks</p>	<p>I will base my vote at the next election on the commitment this government makes to achieve net zero emissions as early as possible and the transition to a WA renewable energy industry. Here in WA our carbon pollution is rising out of control, but we can do so much better. Real action on climate change will deliver</p>

	<p>thousands of new jobs and opportunities as we become part of the global solution.</p> <p>I don't accept that increasing WA's emissions before quickly trying to reduce them to achieve net zero at 2050 is a realistic solution. Already over half of the global dangerous tipping points have occurred. We are now locking ourselves into a future, scientists do not think we can survive. Therefore, increasing our emissions at all should not be a part of the plan, and I would encourage the State Government to begin the process of decarbonisation now and work toward net zero emissions by 2030.</p> <ol style="list-style-type: none"> 1) Immediately reduce WA's carbon pollution and achieve zero net emissions as soon as possible with a maximum deadline of 2030. 2) Legislate to deliver science-based interim targets and an emissions reduction pathway in line with a fair and equitable contribution to limiting global warming to 1.5 degrees. 3) Develop a Climate Change Strategy Implementation Plan to align with climate legislation that outlines timeframes, responsible agencies and budgets associated with the different climate change mitigation and adaptation action required to achieve a net zero emission target by 2030. 4) Support this work by reinstating the Climate Change Agency, with adequate resourcing and staff to guide and support this transition across the state and all governmental agencies. <p>Finally, I want to ask the Premier and the relevant Ministers, what do you want your legacy to be? What do you want to be remembered for by the people of Western Australia? I believe you have an opportunity to either be a hero to your children, or be seen as a puppet to the fossil fuel industry.</p> <p>I hope you choose to be a hero, and if so I look forward to working with you in the future on decarbonising the state and working towards net zero emissions by 2030.</p>
Catherine Baudains	<p>Dear EPA and McGowan Government,</p> <p>I am deeply concerned about the proposal to open up WA for a new fracking industry. While i understand that there are some significant economic benefits associated with this type of development, i feel very strongly that the SHORT TERM economic gain does NOT outweigh the long term environmental impacts and the significant RISK to the community from this inherently dangerous and damaging mining procedure. I urge you to apply the precautionary principle to protect our communities from the significant impacts KNOWN to result from fracking.</p>

	<p>WA has the potential to be a RENEWABLE ENERGY SUPER POWER! We could be literally leading the world in demonstrating sustainable enterprise by refusing to engage in climate damaging developments associated with fossil fuels and instead building on the enormous community support for renewable energy generation.</p> <p>WA is lagging behind all other States in Australia in almost every aspect of sustainability and climate change mitigation. How do you really want this term in government to be remembered? If gas fracking proceeds here in WA it will prevent our state from meeting international obligations to reduce carbon pollution. While gas is not considered to be 'as bad' as coal, it is still a polluting fossil fuel that releases greenhouse gas emissions at every stage of the industry, including extraction, processing and burning of gas for energy.</p> <p>Yet we have enormous potential for clean renewable energy solutions, and the reality is that we do not need more gas.</p> <p>A climate change policy for Western Australia must adopt and legislate science-based emissions reduction targets for our state that reflect international commitments under the Paris Agreement. Development of a gas fracking industry in WA is totally inconsistent with such a policy.</p> <p>My children (aged 7 and 12), my husband and myself want to see a climate change policy in WA that permanently rules out gas fracking and other fossil fuel developments and instead supports renewable energy solutions for our state.</p> <p>Please consider this submission, and the longer term future for this wonderful State.</p>
<p>Chilla Bulbeck</p>	<p>To the Climate Change Discussion paper panel, I appreciate the government offering us this opportunity to comment on how WA can act on climate change.</p> <p>Of most concern to me is that the WA government allows major polluters like Chevron and Woodside to claim that gas is a transition fuel to a clean energy economy when there is scientific evidence that gas extraction and transportation creates as many emissions as does coal.</p> <p>Chevron is the most polluting of all the investor-owned corporations in the world (followed by ExxonMobil and BP). It is only beaten by</p>

state owned Saudi Aramco of all polluting entities. Chevron has released 43.4 bn tonnes of carbon dioxide and methane since 1965, around 10 per cent of that emitted by the top 20 companies which together account for 35% of carbon dioxide related pollution.

In other words, our action here in this jurisdiction can actually impact the global level of pollution. We owe an international obligation to require Chevron to become a good citizen - at least here in Australia.

The Barnett government had the initial courage to require these massively profitable polluters to compensate for their pollution with an offset program. This was put to one side due to the price on carbon regime introduced by the Gillard government. As we all know, Australia now has no emissions reduction policy and each state must make its own way to a commitment to the next generation, our way of life and our beautiful landscape.

The situation is so frustrating and so puzzling because it is actually a win-win. If the government has the courage and good sense to require offsets from Chevron and Woodside, the budget can increase its surplus, the opportunity for jobs and investment will grow, our farmers can take up carbon capture to restore our drought-prone land, we can invest in the technology that allows us to export sunshine overseas instead of deadly greenhouse gas emissions.

1. A commitment to a zero net emissions economy as soon as possible, charting out a pathway to get there
- 2) Identify and fund (with offset income) thousands of new jobs in clean industries which support a just transition for affected workers and communities.
- 3) chart a rapid transition to 100% renewable energy
- 4) Prevent any new or expanded coal, oil or gas developments in WA including LNG and fracking.
- 5) Require companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming and renewable energy.
- 6) Supplement carbon farming with strong protection of WA's forests and other ecosystems, rapidly transitioning away from native

	<p>forest logging and clearing and developing a large-scale growth in carbon sink ecosystems.</p> <p>7) Invest in climate adaptation programs and partnerships, including with Aboriginal people and communities, farmers, local governments, businesses and other sectors.</p>
Chris Botman	<p>1) Though I see just today scientists are saying we have probably already missed that window</p>
Christina Marruffo	<p>So many places in the world, on a STATE level, have pledged to do the right thing for the climate, despite FEDERAL governments doing absolutely nothing.</p> <p>I would refer you to the opinion piece in The Guardian on 25 November 2019, written by Mr Richard Flanagan, a respected and honoured Australian author, in which he excoriates the Coalition Government for their failures and lies on the climate emergency, among other comments.</p>
Cyril Edwards	<p>The WA government's climate change discussion paper is an exciting and progressive document. Strong and urgent action should be given high priority at all levels of government?</p> <p>I believe that action on climate change will deliver a large number of new jobs and opportunities. Without action the future would be bleak and terminal for our species.</p> <p>I support the development of a comprehensive state-wide policy on climate change that includes the following:</p>
Dale Taylor	<p>There are a couple of West Australian based companies that could use the support for renewable technology, create jobs and be a world leader, such as Carnegie Wave Energy.</p>
Daniel Long	<p>We need to control the rising carbon pollution here in WA. Real action will deliver thousands of new jobs and opportunities as we join in to the global solution.</p> <p>I would love to see WA become a leader of this change, instead of a follower as usual. I believe WA needs a comprehensive state-wide policy on climate change including the following:</p> <ol style="list-style-type: none"> 1) Reduce pollution to achieve zero net emissions as soon as possible. Legislate real targets and an emissions reduction pathway to limit global warming to 1.5 degrees. 2) Deliver a Jobs Program for clean industries and support a just transition for affected workers and communities. 3) Repower WA with renewable energy, phase out fossil fuels, and

	<p>prevent any new or expanded coal, oil or gas developments in WA including LNG and fracking.</p> <p>4) WA's biggest polluters must be accountable. Emission reductions and Offsets must be required and punishments ENFORCED on businesses.</p> <p>5) Stop forest clearing, transition away from logging of native forests.</p> <p>6) Support climate adaptation programs and partnerships with farmers, governments, and businesses and communities.</p>
Daniel Osborne	I agree with all written here. Please consider this submission seriously.
Daniela Egloff	<p>I am deeply concerned over our environment and climate change, therefore I support strong and urgent actions in regard to issues concerning our environment. I ask the WA government to take decisive and clear action in tackling climate change.</p> <p>As we are a state that emits a lot of carbon pollution and being heavily reliant on mining and fossil fuels, I believe strongly that we as a state can do much better. I also believe that WA has the ability to take real action on climate change, which will also create new jobs, industries and opportunities for us. There is so much potential for WA in areas of renewable energy, recycling, tree planting, carbon farming, clean technology, organic farming etc., and for WA to become a leader in those fields.</p> <p>I strongly call for WA government to declare a climate emergency and for a comprehensive state wide policy on climate change to be implemented.</p> <p>Some key points that I would like to see the government to take action on are:</p> <p>1) Protecting and restoring our forests, our ecosystems and other biodiverse & carbon stores areas. WA needs to act on better land management, protecting and restoring our native wildlife and flora, which includes actively protecting endangered species such as the Black Cockatoo; to increase biodiversity; plant more trees and drastically reduce our rate of deforestation, especially transitioning away from native forest logging and clearing.</p> <p>2) Immediately reduce WA's carbon pollution footprint, and to achieve zero net emissions as soon as possible. This also includes holding WA's biggest polluters to account.</p>

	<p>3) Transition away from burning fossil fuel and focus on renewable energy in WA. Make renewable energy a major industry in WA which would have the potential for hundreds of jobs. Prevent any new or expanded coal, oil or gas development including fracking and LNG. Ensure that there is transition support in place for affected workers and communities.</p> <p>4) Creation of a comprehensive, local recycling industry which will allow opportunity for new jobs, and reducing the state's waste going to landfill, stockpiled, burnt or being sent overseas. Improve the state's waste management and create an industrial composting facility.</p> <p>I strongly believe that as a state we need to act urgently and strongly to combat climate change and to protect our environment. A climate change policy offers an exciting opportunity for WA to create new industries, and to unlock new jobs and business potential.</p>
David Kelly	<p>Please read the last paragraphs.</p> <p>Even though Australia is 1.33 of the omissions of the world, we need to show EXAMPLE. I have many panels on the roof I want to more than double them and have battery storage which the suppliers tell me to wait for as the price will come down. I would do it now regardless of price except the I am a pensioner. I will wait two years. Then be completely supply free including the running of a motor vehicle.</p> <p>There could be some incentive made by Government!!</p>
David White	<p>Every day I am being reminded by credible reports and research that the rate of change to our environment is increasing rapidly as a result of global emissions.</p> <p>There are significant opportunities to take action on climate change while developing new statewide capabilities, industries and jobs to contribute to a global solution.</p> <p>I believe it is imperative to take action immediately. The WA government (and all governments) are charged by their constituents to provide leadership. So far our federal government has not demonstrated a commitment to provide credible action on climate change. It is therefore incumbent on our state leadership to drive action.</p>

Deidre Moderacki	The time is late. This is an opportunity and a challenge. Prove you have read the facts. Show me what you value
Denise Yabsley	Our planet on which we all depend needs urgent attention. Please please PLEASE take immediate action on the following:
Di (Nerine) van Santen	<p>7) The Climate Analytics Carbon Budget for WA report (https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fclimateanalytics.org%2Fpublications%2F2019%2Fa-15c-compatible-carbon-budget-for-western-australia%2F&data=02%7C01%7Cclimate%40dwer.wa.gov.au%7C088a75373c8447092d4208d774fcdde6%7C53ebe217aa1e46feb88e9d762dec2ef6%7C0%7C0%7C637106501802178870&data=5fiinReWQ0Z1zgMpSoQIO5dcycRUVrn%2FShZ4uXmGrKY%3D&reserved=0) spells out the steps we drastically need to take.</p> <p>8) As has been done in New Zealand, create a model of community collaboration where individuals vote for what's best for ALL of us and the future of our children and stop secretly hoping that whatever they decide to do doesn't adversely affect their consumer lifestyle</p>
Diana Malone	<p>I am glad that this government has given the public the ability to comment on the WA government's climate change discussion paper. It is of the utmost importance that the government begins to take serious action on climate change and mitigate the damage that the carbon slinging Wild West polluters have already done. Climate change is not something that can be debated or ignored. It is happening and the faster we act to reduce atmospheric carbon the better chance of abating environmental collapse and mass extinction.</p> <p>In Western Australia we have some of the most shocking statistics in terms of carbon emissions and proposed new mines creating even further carbon pollution. This government needs to stand up to the big carbon polluters and make radical change to ensure a future for our children and grandchildren. It really is that serious. Let WA be a global inspiration rather than a global embarrassment.</p>
Don Yates	7) Strongly advance Blue Carbon Credits with the growing of restoration seagrass where sand dredging has severely damaged the seabed natural growth.
Dr Keira McKenzie	My concerns for the problems arising from climate change are almost overwhelming, and I therefore support strong, committed,

	and urgent action as a matter of highest priority for all levels of government.
Dr Liana Joy Christensen	<p>Like the majority of Australians, I am deeply concerned about climate change and advocate urgent and effective action as a matter of highest priority for all levels of government?</p> <p>It's a mistake to view real action on climate change as a cost to the State. It is actually an opportunity. The chance to deliver thousands of new jobs and opportunities as we become part of the global solution. Here in WA our carbon pollution is rising out of control, but we can do so much better.</p>
Dy Davenport	<p>We are relying on our labour govt to take action to combat climate change, that is SIGNIFICANT ACTION not just the minimum they can get away with, which is the attitude of the liberals.</p> <p>The community has shown you that we care with solar panels but we need you, the government to drive change.</p> <p>Yes gas is better than coal but production must be undertaken in the most sustainable way. Make the producers work to cleaner and cleaner targets til we reach ZERO emmissions Govt. support is needed for research and development into wave ,wind and solar installations and the "storage" of the power created to ensure continuous supply. We are aware this will involve considerable investment but it has to be done now. Please have the courage and leadership to make a difference.</p>
Elizabeth Eaton	<p>7) Support rural land holders, both farming lands and pastoral, in their attempts to halt degradation of rural land. This resource has been deteriorating for decades, see for example, the Southern Rangelands Report 2011 Dept Agriculture. The future use of this resource is seriously compromised. In broad terms, the best way for a landholder to make money next year is to do the same as this year, yet the best way for that landholder to make money in 10 years is to change the property system of use now.</p>
Elizabeth Gibbons	<p>As a parent, I am very concerned about my son's future with regards to climate change and resultant mass extinctions and so on, and I support strong and urgent action as a matter of highest priority for all levels of government?</p> <p>Disappointingly WA's carbon pollution is rising I feel strongly that steps need to be taken to change this immediately. Renewable energy and other actions to mitigate climate change would create job opportunities and revenue for the state.</p>

<p>Felicity Cahill</p>	<p>Thank you for the opportunity to comment on the WA government's climate change discussion paper. I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government. I live in NSW, but what happens in one part of the continent affects the rest.</p> <p>In WA, as in the whole of Australia, our carbon pollution is rising out of control, but we can do so much better. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.</p>
<p>Felicity Haynes</p>	<p>I am a retired academic living on a farm 15 kms out of Margaret River on the edge of a State Forest. I actively contested a proposed coal mine on the boundary of my farm because it would lower the water level, drain the local aquifer and have disastrous consequences for our endemic jarrah and marri forest. This would have a flow on effect for the climate, because deforestation lowers the rainfall necessary for sustainable growth, not only of natural bush but for agriculture and horticulture.</p>
<p>Frances Goff</p>	<p>Here in California, we are mourning the loss of land to wildfires. You in Western Australia are suffering from this, to. Real action on climate change will deliver thousands of new jobs and opportunities so that you can become part of the global solution.</p> <p>Please don't fail - as we are doing</p>
<p>Francis Kotai</p>	<p>7) Reduce risks to workers in outdoor industries and emergency services staff dealing with adverse conditions and disasters brought about by anthropogenic climate change. 8) protect industries that rely on outdoors work and habitable environments</p>
<p>Gabrielle Kuret</p>	<p>I appreciate the opportunity to comment directly to your Department on this issue. I read the New Scientist magazine each week, and keep abreast of current affairs (excluding sport) both nationally and globally.</p> <p>I recall my basic science lessons from 50 years ago. The basics of geography and science have not changed since then, but technology has.</p> <p>Global warming due to the greenhouse effect is a fact. Global discussions have since the Paris Agreement in 2015 concentrated on how to avoid the worst of these effects, in order to avert the</p>

	<p>tipping points of irreversible climate and environmental damage.</p> <p>Schoolchildren especially are anxious to see a concerted effort to act now on addressing this issue.</p> <p>We all want a future world that we can actually live in.</p> <p>To this end, the WA Government needs to steer in the direction of reducing greenhouse gas emissions (especially from fossil fuels, including LNG) to zero; and contribute to research and innovation in renewable and sustainable energy production.</p> <p>Technology exists to power homes cheaply, to store and export renewable energy, to drive electric cars and buses, to reduce damaging pollution. Government investment in research and innovation can drive these and other positive actions.</p> <p>Adaptation to climate change effects is also needed, especially with regard to our health, the natural environment, biodiversity, and water and food security.</p> <p>I therefore support strong and urgent action as a matter of highest priority for all levels of government?</p> <p>WA is lagging behind other Australian states with regard to policy and action on the climate crisis. Here in WA our carbon pollution is rising out of control, but we can do so much better. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.</p> <p>The excellent investigative report prepared by the Conservation Council of WA ‘Clean State’ draws on information that is equally available to researchers in government departments such as your own.</p> <p>It is not a given that huge polluting companies be allowed to continue unabated their extraction of fossil fuels; nor avoid offsetting emissions; nor avoid or defer paying tax. The WA Climate Change policy needs to address the crucial role of the big polluters first, as proof of taking the matter seriously.</p>
Gary Slee	The real challenge is global warming crisis is leadership attitude or lack thereof.

In the face of a crisis, leaders within governments must make tough decisions and carry out tough action. We know what to do to avoid and mitigate global warming.

It is not a time to pander or beholden to vested narcissistic interests including one's own.

Governments need to make the tough decisions and laws, within the full capacity it has, based on the best available science and in the best interests of the survival of the human race and other species ... then let organisations and individuals adapt.

Yes, there will be disruption but it is better to have preventative pain than full on acute pain. If they cannot or don't want to adapt, then so be it.

If leadership are unable to make appropriate decisions in the face of a crisis, then leave or face replacement with those who can.

In the context of global warming we don't have the luxury of time or options and must act now without excuses.

The Intergovernmental Panel on Climate Change has released a report estimating that emitting no more than 420 billion to 570 billion tons of carbon dioxide (carbon budget) would give the world approximately 66% chance of meeting the 1.5c temperature goal.

Given the current rate of global greenhouse gas emissions, this represents around 12 year's emissions. That is, by 2030. At that point in time, two activities must happen.

Global human activities must cease emitting greenhouse gases—zero carbon emissions.

Even having ceased carbon emissions by 2030, we still have a 66% chance of meeting the 1.5c goal.

This is not good odds given the complexities of global warming and the scope for error. We will experience extreme climate events, major societal disruptions and dislocations involving extreme hardships and deaths, species extinctions, economic destructions all leading to further unpredictability.

Human must carry out activities to drawdown existing global greenhouse gases from the atmosphere, to pre-industrial levels.

	<p>This will require tough decisions making and drastic action by governments, organisations and individuals.</p> <p>To adopt the global net-zero carbon emissions by 2050 target—to contain the temperature range to 2.0c—is not acceptable. This will escalate matters to catastrophic or worse</p>
Gavin Cerini	<p>I do not live in WA but have many relatives in Perth and on farms. A climate change strategy that includes oil and gas expansion has failed before it starts.</p>
Glenise Slee	<p>Whilst I would like to submit 'in my own words' I believe the text below to be a comprehensive, and researched statement, worded far better than I could have done... so,</p>
Glenn Nagy	<p>4) Enact new laws that will hold WA's biggest polluters to account by requiring companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming and renewable energy.</p> <p>5) Permanently protect natural carbon stores?in WA's forests and other ecosystems, and rapidly transition away from native forest logging, clearing and excessive Government Sanctioned Burn-offs and Over Prescribed Burning which not only destroys and decimates native species and their habitat but also releases a vast amount of stored carbon back into the atmosphere therefore exacerbating Global Warming which in turn creates more extreme weather events, more drought meaning more violent bush-fire events leading to more Global Warming.</p> <p>Also the wood fire smoke produced from these excessive burn-offs is known to be highly carcinogenic and it is Stated in information supplied by the "Australian Air Quality Group" that "Burning 10 kg of wood in a modern Australian heater produces more benzo[a]pyrene than in the smoke from 270,000 cigarettes and more benzene and formaldehyde than in the smoke of 60,000 cigarettes" and that "Wood smoke particulate matter generated more DNA damage than traffic-generated PM per unit mass in human cell lines, possibly due to the high level of polycyclic aromatic hydrocarbons in WSPM. The authors suggested that "exposure to wood smoke particles might be more hazardous than PM collected from vehicle exhaust with respect to development of lung cancer" so the question is "How much future human death will be caused directly by the Governments over zealous approach to</p>

	forest and bush fuel reduction programs through Prescribed Burns and Burn-offs. Reference> http://woodsmoke.3sc.net/cancer
Gregory Pastoll	7) Legislating to make carbon farming legitimate for outback landholders
Gretta Little	Please do something for our children. Stop it with this fossil fuel obsession and look to a real and sustainable future.
Harry Gray	WA compared to all states in Australia has the highest carbon emissions and this continues to increase. Although this may bring short term economic gains, I see little benefit in this 100 years from now. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.
Hazel Bradley	<p>Thank you for the opportunity to comment on the WA government's climate change discussion paper. The people on the street are very concerned about the impact of climate change and are frustrated by the lack of leadership on this issue. I support strong and urgent action as a matter of highest priority for all levels of government?</p> <p>I firmly believe we cannot just keep on doing what we are doing. I recently learned that in Wales there is something called the Well-Being of Future Generations Act that means all public organisations must carry out 'sustainable development'. I applaud the intent of this Act and believe this is the way we need to start thinking.</p> <p>2) It is a sad indictment that we have up until recently been exporting our recyclable rubbish to China. We should have been investing in our own recycling plants (instead of putting money into incinerators which do nothing to encourage recycling).</p> <p>5) Save the trees!!!</p>
Hendrik J (Rob) Versluis	<p>In the absence of leadership by the Federal Government to address the critical need to cut pollution, the McGowan State Government must lead in the delivery of a new climate change policy. There are many opportunities for real action to enhance WA's Clean State potential.</p> <p>I look forward to see the State Government's response to the submissions received.</p>
Irene Clarke	Carbon pollution in WA is rising out of control, and this is unforgivable because we have the technology, understanding and money to do so much better. Real action on climate change will

	<p>deliver thousands of new jobs and opportunities as we become part of the global solution.</p>
<p>Irma Lachmund</p>	<p>7) Enable, facilitate and consider mandating emissions accounting at the private, community and corporate level, including transparency of emissions of all government activities.</p> <p>8) Renewable energies productionband use to become the default energy genetation for all new projects and be given priority in revirws and upgrades.</p>
<p>J. Vangiessen</p>	<p>Real action on climate change is a priority. We need to take action to help avoid the drastic consequences of climate change. Action is needed to help to save our species, and our lifestyle. And action will deliver thousands of new jobs and opportunities as we become part of the global solution.</p> <p>4) WA's biggest polluters must be held to account. Companies must be required to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming and renewable energy.</p>
<p>James Hanlon</p>	<p>Thank you for the opportunity to comment on the WA government's climate change discussion paper. As one who has worked for long parts of my life in the mining industry I am deeply concerned about the worlds rapidly changing climate and our role in it. I now support strong and urgent action as a matter of highest priority for all levels of government.</p> <p>1) Setting targets to immediately reduce WA's carbon pollution and achieve zero net emissions as soon as possible. Legislate to deliver science-based interim targets and emissions reduction pathways in line with a fair and equitable contribution to limiting global warming to 1.5 degrees - The global world temperature has already risen by more than 1 degree above pre-industrial levels and is on track to rise to as much as 3 or 4 degrees by the end of this century which will have catastrophic consequences for all living species on this earth including ourselves.</p> <p>2) Deliver massive Clean State Jobs programs to unlock thousands of new jobs in clean industries and support a just transition for affected workers and communities to enable us to become part of solutions that will facilitate the off-setting of the hugely disruptive effects the changing global climate and biosphere.</p> <p>5) Permanently protect natural carbon stores? in WA's forests and other ecosystems, and rapidly transition away from native forest logging and clearing to protect our remaining climate threatened</p>

	<p>biodiversity.</p> <p>Please considering this submission, in the hope that the genie isn't already out of the bottle and that climate tipping points can still be averted.</p> <p>There is no time to waste, now is the time to act is now.</p>
James Reynolds	<p>I ask this of you to secure Australia's future as a fighter of climate change. To allow my friends and I to live our full lifespans without cataclysmic natural disasters, to see my nephew grow up in a world that he doesn't have to fix to survive.</p>
Jamie Van Jones	<p>I truly believe that we have a huge potential to embrace a future of clean and green job growth and neutralise our emissions. Our forests need to be protected not cleared for woodchips. Our fossil fuels need to stay in the ground.</p> <p>This is about what the common good is for everyone, not just the CEO's and shareholders of Fossil Fuel Companies. Please take action today to protect our children's future from a climate that is out of control</p>
Jamnes Danenberg	<p>Of course as noted physicist Buckminster Fuller famously said: We don't need to do anything... Survival is not mandatory,</p> <p>The main challenge WA faces in decarbonising WA's electricity supply whilst maintaining generation capacity, security and reliability is NOT a technical one. It is a political problem.</p> <p>WA is faced with a stark choice going forward. It can acknowledge, accept and recognise that the science around climate change is very clear and demands a credible wide ranging and paradigm shift in response, or it can stick its metaphorical head in the sand and continue 'business as usual' and continue to develop and expand our fossil fuel resource sector. This is simply NOT compatible with what the science states.</p> <p>The technical question of how to decarbonise the entire WA economy has been mapped out by numerous academics, think tanks and NGO's. Examples can be found in the work of organisations like Beyond Zero Emissions, Sustainable Energy Now, et al.</p> <p>A detailed 1.5°C-compatible Carbon Budget for Western Australia has been produced by respected industry analysts Climate</p>

Analytics and its findings are a wake up call.

If you don't change direction, you'll end up where you're headed. This consultation process provides WA a clear opportunity to take stock of the path we are taking in terms of our economic development, energy policy and the imperative posed by the climate crisis to decarbonise. Or not.

What is absolutely clear from a scientific point of view is that further expansion of fossil fuel projects and their associated carbon emissions are incompatible with the need to decarbonise our economies.

The science is unequivocal. IF we want to maintain global temperature increases at no more than 1.5°C we must hit net zero emissions by 2050 at the latest. Recent studies suggest even that may be too late.

Historically WA has a carbon intensive energy and electricity sector, yet substantial changes have occurred recently with over 35% of WA households now having rooftop solar PV systems providing some, if not all of their domestic energy requirements.

Transitioning to a renewable energy is the way of the future in an increasingly carbon conscious global world.

Australia is one of the 197 signatories to the Paris Climate Change Agreement

Article 4.1 specifies that, in order to reach the temperature limit set under the Agreement, that countries should aim to reach a global peak emissions as soon as possible, undertake rapid reductions thereafter and reach zero emissions sometime in the second half of the century in accordance with best available science.

Global CO2 emissions must decline by 45% by 2030 (from 2010 levels), reaching net zero around 2050.

WA has a very energy intensive emissions profile – just five LNG plants are responsible for 70% of emissions from WA's top 10 industrial polluters.

WA LNG pollution has grown by 420% since 2005

Current and proposed LNG pollution place us 61% above the baseline

WA LNG pollution is five times more than the annual savings made by Australia's solar rooftops

WA LNG pollution is cancelling out all the savings made by the Australian Renewable Energy Target every year

WA LNG pollution cancels out all the savings that will be made by the Emissions Reduction Fund after just 12 years

Requirements for the LNG industry to offset pollution would create more jobs than the entire workforce for WA's largest LNG facilities

Woodside's Burrup Hub project will produce 3.8x pollution of the Adani Carmichael mine.

In comparison to other Australian (and international) jurisdictions WA compares very poorly in terms of climate change indicators and State Government measures.

WA has NOT decreased pollution since 2005
(yet every other state & territory has)

WA is the ONLY jurisdiction that lacks a whole of government climate change policy

WA lacks any Climate Change legislation
(Unlike VIC, SA, TAS & ACT)

WA does have a Net zero Emissions Target by 2050
(however it is only aspirational)

WA does NOT have any legislated Emissions Reduction Targets
(unlike VIC, SA, TAS & ACT)

WA does NOT have a Renewable Energy Target(s)
(unlike QLD, VIC, TAS, ACT & NT)

WA does NOT have any Energy Efficiency schemes
(unlike NSW, VIC, SA, TAS, ACT & NT)

WA does NOT have a legislated Climate Adaptation Plan
(unlike VIC, SA, TAS, ACT)

WA does NOT have Statewide Climate Risk Assessment
(unlike VIC, TAS, ACT & NT)

WA does NOT have Regional or Sectoral Vulnerability Assessments
(unlike every other jurisdiction bar NT)

Community opinion is meanwhile very clear regarding action on climate change:

- 85% support for stronger action on climate change in Western Australia.

- One in five believe climate change should be treated as an

emergency,

- just 4% believe that there is no need to take greater action.
- 80% support requirements WA's biggest polluters to offset their climate damage

On the issue of the EPA advice:

- There is a very high expectation that the WA Government should follow the advice of the EPA on controlling carbon emissions.
- 77% reject policies that would allow emissions to rise further, as currently proposed by the McGowan Government.

When it comes to expanding the LNG industry:.

- A majority support a ban on new gas developments
- Nearly two thirds support phasing out gas and replacing it with renewable energy.
- Western Australians reject LNG industry arguments that the costs of reducing and offsetting pollution from oil and gas sector should be borne by other sectors, businesses or taxpayers.

It is imperative we incorporate as a matter of urgency science-based targets & carbon budgets into 'Zero Carbon' legislation.

'Zero Carbon' legislation could include

- 1.Legally binding emissions reduction target(s)
- 2.Carbon budgets with interim targets
3. An Independent expert body
- 4.GHG inventory
- 5.Adaptation strategies

'Zero Carbon' legislation has already adopted by: UK, Norway, Sweden, France, California, Scotland, Victoria, the ACT and recently New Zealand

It is essential we hold WA's biggest polluters to account.
WA's 10 highest polluters comprise:

- 7 companies responsible for 52% of WA's pollution:
- 5 LNG Facilities
- 3 Coal fired power stations
- Alumina refinery & Ammonia plant
- LNG accounts for 70% of the Top 10

WA needs to create a \$1 billion 'Clean State Jobs and Industry Investment' program
The \$1b program could include:

1. 'Deep retrofit' and green infrastructure program
2. Clean Jobs & Industry Investment fund

- 3. Workforce transition package
- 4. Dedicated funding for WA scientists & innovators

Currently fossil fuel companies in WA enjoy over-generous subsidies worth \$1 billion a year. Factor in inadequate tax and royalty arrangements and its easy to understand how Chevron made \$14.2 billion in 2018 Will make \$32 m EACH DAY on Gorgon & Wheatstone.

It is a lot less easy to understand how it will not have to pay royalties until 2035 and has paid no company tax in five out of the last seven years and currently owes the ATO \$1 billion!

WA needs to drive investment into industries and jobs that will see us decarbonize by 2050. It could be funded by diverting perverse subsidies and making our tax system fairer.

WA should completely repower WA with renewables
Many studies have provided roadmaps for WA to reach 100% renewable by 2030. For example in 2016 Sustainable Energy Now found we could reach 100% SWIS with

- Energy efficiency
- 27 wind farms
- 2 CST stations
- 8 solar PV farms
- 4 biomass plants
- 700,000 homes and businesses with batteries

Experts suggest our entire energy system could be 100% renewable by the early 2030s, with a planned, staged, stable phase down of fossil fuels. A just transition for workers and vulnerable communities is essential!

Permanently protecting our forests is an essential component of WA's response to tackling and mitigating climate change. Reducing deforestation and forest degradation is one of the most effective options for climate change mitigation:
Sadly over 85% of logs sold from WA's native forests are turned into low value added products like firewood, paper and sawdust.

Decarbonisation of our transport network is also essential.

Climate Adaptation plans are fundamental to mapping out pathways to navigate the transition to a low-carbon future and it is essential social justice concerns are factored in .

	<p>It is abundantly clear a WA State Climate Policy is well overdue.</p> <p>A new WA State Climate Policy should:</p> <ul style="list-style-type: none"> ? Include state-based targets including: <ul style="list-style-type: none"> ? A state emissions reduction target or interim emissions targets ? A net zero emissions target ? A renewable energy target ? Develop whole-of-government strategies, action plans and pathways to achieve targets, for example: <ul style="list-style-type: none"> ? Adaptation strategy ? Energy efficiency scheme ? Electric vehicle strategy ? Waste strategy ? Health and wellbeing plan ? Support collaborative action by local governments, businesses and communities <ul style="list-style-type: none"> ? Introduce incentive mechanisms to ensure rapid uptake renewable energy ? Ensure that climate change is embedded in government decision-making ? Introduce a climate change fund ? Ensure a just transition to a low-carbon economy for vulnerable communities <p>A WA zero carbon/climate change legislation should include:</p> <ul style="list-style-type: none"> ? Establishing legally binding targets for emissions reduction, net zero emissions, renewable energy ? Require policies, strategies and planning to be developed and implemented to achieve these targets ? Include reporting, monitoring and verification mechanisms
Jane Bremmer	<p>7) Prohibit the establishment of Waste to Energy Incineration in WA as this industry is more greenhouse gas (and toxics) polluting per unit of energy than coal, oil and gas. It is an industry that also entrenches a waste management system that runs counter to the States existing zero waste policy, undermining the recycling, composting and reuse sectors which provide far greater climate benefits. Instead WA should invest in non combustion waste disposal options like Anaerobic Digestion, composting for sequestering soil organic carbon and an immediate ban on non recyclable single use plastics.</p>

Jane Hebiton	<p>7) Work with Australia Post to change their mailing satchels to more sustainable products and to make re-using packaging a cheaper alternative.</p> <p>8) Incentives for producers and retailers to reduce all packaging.</p> <p>9) Reduction in fresh fruit and veg wrapped in plastic.</p> <p>10) Recycling programmes that are more community based, more achievable, more transparent and altogether easier for people to participate in</p>
Jane Long	<p>I am extremely concerned about climate change and I see the need for urgent action by all levels of government.</p> <p>We need to control the rising carbon pollution here in WA. Real action will deliver thousands of new jobs and opportunities as we join in to the global solution.</p> <p>I would love to see WA become a leader of this change, instead of a follower as usual. I believe WA needs a comprehensive state-wide policy on climate change including the following:</p> <ol style="list-style-type: none"> 1) Reduce pollution to achieve zero net emissions as soon as possible. Legislate real targets and an emissions reduction pathway to limit global warming to 1.5 degrees. 2) Deliver a Jobs Program for clean industries and support a just transition for affected workers and communities. 3) Repower WA with renewable energy, phase out fossil fuels, and prevent any new or expanded coal, oil or gas developments in WA including LNG and fracking. 4) WA's biggest polluters must be accountable. Emission reductions and Offsets must be required and punishments ENFORCED on businesses. 5) Stop forest clearing, transition away from logging of native forests. 6) Support climate adaptation programs and partnerships with farmers, governments, and businesses and communities.
Jane Loveday	We are running out of time
jane Paterson	To Premier Mark McGowan, I am sure that you are aware of the effect of the world's rising carbon pollution & that Australia's pollution is rising rather than

	<p>subsiding & W.A.s contribution to our country's level is higher than most.</p> <p>Woodside & Chevron have been given a mostly regulation-free opportunity to spray their greenhouse gases into our State's atmosphere for decades.</p> <p>That has resulted in pushing our rain system to the south of the continent; it helps to warm & acidify the ocean & is enlarging the ozone hole above us once again.</p> <p>AND they apparently don't have to pay any tax.</p> <p>It will be hard to reverse those arrangements, but I look forward to hearing that your government is working to achieve that.</p>
Jane Putland	<p>2) Completely repower WA with renewable energy, phase out climate damaging fossil fuels, and prevent any new or expanded coal, oil or gas developments in WA including LNG and fracking.</p> <p>3) Protect biodiversity by investing significantly in conservation programs. There are many environmental and conservation students who currently lack opportunities for employment. Conservation work relies on volunteers as programs are under funded, yet we can spend 850 million on 27km of road that is not really needed. There is much scientific research to be done as there are many gaps in our knowledge of threatened ecological communities. Lets make a change and invest in the environment which will help protect our unique wildlife and support jobs and economic diversification in regional and remote areas as well as boosting tourism. This is essential to reduce extinction rates and protect our many biodiversity hot spots whilst mitigating the effects of climate change. WA's largest polluters could be required to contribute to such programs.</p> <p>4) Permanently protect natural carbon stores in WA's forests and other ecosystems, and rapidly stop native forest logging and clearing and review prescribed burn-off practices.</p>
Janet Holder	<p>You can no longer continue to ignore the need for immediate change..</p>
Janey Glauser	<p>I am not someone who usually writes submissions but I feel compelled to do so in this instance. I have been watching a long line of governments over the past 40 years failing to come to grips with the urgency of climate change . Your government does not have the</p>

	option to join that line up as this matter requires urgent action and needs to be your highest priority.
Jason Bruce	7) Stop FFI - state political corruption with special regard for nepotism.
Jenni Davies	<p>While I agree totally to the CCWA Submission below there are things that can can be done today to stop the increase in pollution.</p> <p>These range from a total ban on fracking state wide before it gets out of control-fracking has the potential to poison all the underground water aquifers. Also the inappropriate cotton farming on the Fitzroy-there is not the water or climate for such enterprises and the use of pesticides is very concerning. These are simple measures which can be done now before it's too late</p> <p>Read on, thanks for listening .</p>
Jennine Tabb	<p>7) Set plans in motion to expand tree and vegetation planting to unprecedented levels in order to re-establish the water cycle to sustainable levels within the state while supporting employment transition from the fossil fuel industry.</p> <p>Use carbon money from industry to pay farmers to re-vegetate parts of their land and instal groves of trees to start the revegetation and water cycle stabilisation process.</p> <p>8) Protect all our waterways, including the rivers, lakes, coast and ocean, from the effects of development and ruthless operators and industry. Support local, small scale fishermen to sustain production while protecting the environment.</p> <p>9) Halt the sale of all land to foreign ownership to ensure land use is compatible to the desired future of the people of WA. Make it illegal (as most other countries do) to sell land to non citizens so that Australia remains available to all Australians. Do not undermine the future by allowing foreign ownership to control farmland and infrastructure, such as ports, airports, and other transport infrastructure and methods of energy production. If we are no longer in control of our farmland and infrastructure, we are no longer in control of our future.</p> <p>10) Re-look at the food distribution industry. Halt the sale of all agricultural land to interests outside WA and rebuild the potential for West Australians to feed themselves. Support small scale farmers and other producers.</p> <p>A huge reduction in carbon emission levels in WA could be achieved if food wasn't needlessly transported to and from interstate</p>

	and overseas. Actively support local food producers and provide incentives for the community to buy local WA food in preference to interstate and overseas produce. Provide disincentives for the major supermarkets to transport food back and forward across the country. (There is no sensible reason to transport WA produce to Vic and NSW for processing and packaging only to return to WA for sale in supermarkets.
Jenny Josephs	7) we immediately stop foreign ownership so we can keep control of our environment.
Jeremy Fitzpatrick	<p>Real action on climate change will position our State for the low carbon transition, avoid stranded assets and risks to the State's economy as well as environment.</p> <ol style="list-style-type: none"> 1) Take immediate steps to bring WA's carbon pollution down and achieve zero net emissions as soon as possible. Legislate to deliver science-based interim targets and an emissions reduction pathway in line with a fair and equitable contribution to limiting global warming. 2) Require all new major proposals to set targets for net zero GHG emissions by 2050, consistent with the State Government Policy on Greenhouse Gas Emissions for Major Proposals. 3) Set renewable energy targets for Western Australia and plans to phase out all State owned coal fired generation by no later than 2035. 4) Create an ambitious plan to electrify Western Australia's transport sector, with targets and incentives for electric vehicle uptake and funding for charging infrastructure. 5) Protect natural carbon stores in WA's forests and other ecosystems. 6) Create a carbon farming strategy to support regenerative agriculture, and opportunities for Aboriginal people and communities, farmers, local governments, businesses and other sectors.
Jimberly Heart	<p>I am deeply concerned about WA's state of affairs and complete lack of action towards climate change. Passing a meaningless policy now will result in the deaths of millions of people. I sincerely hope you are talking about real change, and not just pandering the bare minimum to make McGowan Government look good.</p> <p>WA is leading Australia in carbon emissions, of which continually undo all of the carbon renewables save. Without stopping it humanity cannot reverse our extinction after 2029. WA is not only</p>

	<p>leading Australia in carbon emissions, it is one of the leaders of the entire world and becoming worse.</p> <p>A net zero carbon emissions in WA rollout would change the scope of the entire planet. Ignoring real science in favour of personal politics and a bit of cash will result in humankind's extinction. You will be there to see it.</p> <p>It really can't get more vital than this.</p>
Joel Torrens	<p>I believe that Western Australia can use its open grasslands and high temperatures to produce a plate energy on an unprecedented scale. Let's show the rest of Australia that we won't be left behind this time. Lets become the leaders of the renewable enery paradigm shift which we are currently part of.</p>
Johanna Mitchell	<p>While I welcome the state government's commitment to developing a climate change policy position, I am deeply concerned about the "aspirational" nature of the targets. In addition, the issues paper did not adequately acknowledge the need for interim targets to ensure that the targets are met.</p> <p>Thank you for considering this submission. There is a huge opportunity for WA to be a leader rather than a laggard and I urge our politicians and policy makers to be on the right side of history. The time to act is now, and the cost of not acting urgently and proactively is increasing every day.</p>
John Auer	<p>I am asking (not demanding, though I probably should be if I were truly reflecting the depths of my beliefs here!) for a comprehensive state-wide policy on climate change that includes the following at a minimum:</p>
John Bailey	<p>I am deeply concerned about climate change and its impacts on biodiversity.</p> <p>I therefore support the strongest possible action as a matter of the highest priority for the WA State Government acting in concert with both local governments and the Commonwealth.</p> <p>A comprehensive state-wide policy on climate change that includes the following is required as a minimum:</p> <ol style="list-style-type: none"> 1) A Zero Carbon Act should be passed by the WA Parliament by the last sitting day of Parliament in 2020. This Act should provide for zero net emissions as soon as possible. 2) In this regard I note that other nations and regions have already legislated for net zero carbon by 2050 (or earlier), for example: Norway (2016), Sweden (2017), Victoria (2017), California (2018), France and the United Kingdom (June 2019), Scotland (September

	<p>2019), and New Zealand (November 2019).</p> <p>3) The Zero Carbon Act should provide for science-based interim targets and an emissions reduction pathway in line with a fair and equitable contribution to limiting global warming to 1.5 degrees.</p> <p>4) In addition, progress in reducing WA's carbon emissions should commence immediately.</p> <p>5) Natural carbon stores in WA's forests and other ecosystems should be protected, requiring a transition away from native forest logging and clearing.</p> <p>6) Climate adaptation programs and partnerships, including with Aboriginal people and communities, farmers, local governments, businesses and other sectors should be supported.</p> <p>7) A Clean State Jobs program to unlock thousands of new jobs in clean industries should be developed and implemented, and support provided for a transition for adversely affected workers and communities .</p> <p>8) Redesign WA's power supplies to employ renewable energy and phase out climate damaging fossil fuels.</p> <p>9) No further approvals for any new or expanded coal, oil or gas developments in WA including LNG and fracking.</p> <p>10) Require all companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming and renewable energy.</p>
John C Massam	<p>7) Stop WA's biggest polluters, the oil and gas industry, by refusing prospecting licences.</p>
John Davey	<p>Action on climate change is necessary and cost more and more the longer time passes and emissions don't reduce.</p> <p>Humanity has made such drastic changes to our environment in the last few hundred years with impacts escalating day by day. We cannot expect to make such large changes to our planet and expect no negative impact.</p> <p>As a husband and father, I am concerned for the future of our family. There are now plenty of options to reduce emissions, renewables are now cheaper than fossil alternatives making it a simple choice when there is a willingness to make a change for the better</p>
John Piercey	<p>I and my family have lived in Denmark for 41 years.</p> <p>Over the past 15 years the increasing severity of bushfires and the unstoppable beach erosion at Green's Pool and Ocean beach have been impossible to ignore.</p> <p>We have to act now on climate change. .?</p>

John Toohey	As the fires over east have demonstrated in the last two weeks, climate change is of the utmost urgency.
Johnny Crouch	<p>The climate crisis is the greatest ever existential threat to human civilisation, and for this reason it is dismaying to see the apathy and lack of ambition among many leaders, including the State Government of WA. As a 30 year old I feel anxiety every day over the future and what it might hold if greenhouse gas emissions continue to rise as they are doing now.</p> <p>WA still lives in the past, approving new gas projects in the north of the state with huge greenhouse gas footprints and clearing native vegetation at an alarming rate, destroying biodiversity and any carbon sequestration potential it may have. We run the real risk of isolating ourselves if we do not shift to a zero carbon economy, becoming a pariah state ill equipped for the zero carbon future</p>
Judith Hugo	<p>5) Put stricter emissions controls on WA's LNG industry, particularly Chevron & Woodside. These industries, out of all proportion to others, are driving up WA's contribution to our national and global pollution levels and have the technological capacity to reduce their emissions to near zero.</p> <p>Absurdly, they pay little or no tax to WA - why?? It's about time the government got tough and made the polluter pay - and made it impossible for them to continue polluting at the rate they are!</p> <p>6) The toxic emissions from LNG and other chemical industries on the Burrup Peninsula are of immense concern for human health - see submissions from Doctors for the Environment.</p>
June Hutchison	<p>Government must work with industries and businesses to ensure that they honestly assess their use of water and power, and their routine practices, and take steps to comply with acceptable standards.</p> <p>I also believe that there should be guidelines for individuals to follow so that they are adding as little as possible to greenhouse gas emissions in their daily lives.</p> <p>Certainly the governments must provide leadership but we all need to take responsibility for our own actions.</p>
Kane Ramirez	<p>P.S: the science is very clear on this.</p> <p>We don't have long left to make an impact on the rolling effects of climate change.</p> <p>Please, for the love of all that is good in this world, have the courage to show that you take this threat seriously.</p>

	<p>Humanity, and life on this planet, hasn't seen such a threat to life since the great Oxidation Event. Spoiler; 99.999% of everything died. It was climate change.</p>
<p>Kate House</p>	<p>To the Premier/Minister concerned I grew up in a farming family in the Great Southern region. We have a gorgeous State which you, the parliamentarians in government, in your seat of ultimate power, are failing to take care of for my children. You've let me and my fellow electors down. I hear you are planning on allowing increased fossil fuel mining in WA, leading to an increase in greenhouse gas emissions. In this day and age, that is tantamount to giving the finger to young Western Australians, and future Western Australians. In the face of a changing climate, which poses visceral danger to future generations and to our land,, you have a moral obligation to act. It is time to send the pollsters home and devote time to addressing the critical issue of climate change for ALL GENERATIONS of Western Australians-not just those who are voting for you. I also understand you have a majority?!? There is no better time to act: Show yourselves as true, strong and moral politicians acting for the good of present and future Western Australians. Again: Send the pollsters home. The recent warning in Bioscience of 11000 scientists provides a fairly clear guide on what is required. I ask that you take action to foster the recommendations therein in relation to energy (keeping fossil fuels in the ground) and economy. I doubt most young people would mind if the economy or job market took a temporary hit whilst we readjust our industries. I otherwise repeat what Cleanstate says, which is this: "Real action on climate change will deliver thousands of new jobs and opportunities.</p>
<p>Kate van Montfoort</p>	<p>The world is not going to stop moving towards reducing their carbon impact. Instead of trying to resist this, we should be at the forefront of innovation and industry in this area so that our economy continues to flourish. Australia is such a small part of the global response to climate change it doesn't really matter what we think. We are at real risk being left behind with all the other redundant technology.</p>
<p>Katelyn Stubberfield</p>	<p>We only have one planet, and I don't want to take the risk that the climate may change outside of human habitually zones. It may seem dramatic and I know it feels like an economic cost, but money doesn't matter if we have no natural environment to live in and</p>

	<p>enjoy. I don't want to have children in a world that isn't as lovely as this, and we are already losing so much. PLEASE take climate action into consideration, you don't want to be remembered as the government that stood by, but rather stood up and made a real change. It is bigger than political alignments, and individuals, it's about all of us and what is best for our Earth</p> <p>Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.</p>
Katrin Menard	<p>Hold FPC and other major polluters responsible and stop making excuses. This is real. Survival of humankind. In May 1998 National Geographic wrote a 35 page article on Climate change. Now 21 years have passed. It is time to take Climate change deadly serious. No more excuses!</p>
Kay Bradfield	<p>I strongly support a comprehensive state-wide policy on climate change that includes the following at a minimum:</p>
Keir Sooby	<p>Thank you for the opportunity to comment on the WA government's climate change discussion paper. I am currently studying a "Masters of Environment and Climate Emergency" at Curtin University.</p>
Keith Colley	<p>6) Review the practice of broad scale prescribed burning of forests, 6a Its efficacy in preventing wild fires, in a drying climate. 6b it's long term impact on sustaining mature, less fire prone, forests of the SW. 6c its integration with early detection, rapid aerial and ground fire suppression equipment.</p>
Keith Vagg	<p>There in WA our carbon pollution is rising out of control, but we can do so much better. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.</p>
Ken Mccaw	<p>There is no shortage of things we can do, and any individual thing done, is at best pointless. But this is the scale of the disaster. The point is we need to do everything possible and then some. and every little bit counts, even if the net result is it only makes a minuscule difference.</p> <p>Wherever possible, and even where it is not possible we need to find a way to make it possible: Stop using, selling digging up Coal/oil/gas. That's a tough one.. We are a sun drenched country. Get Ray Wills to cover anything we can with solar power and wind</p>

	<p>power : He is a local! https://www.youtube.com/watch?v=QmR_6QMCP0g&feature=youtu.be</p> <p>Eliminate waste and get the circular economy happening! (Not just coke cans and beer bottles) But get a glass recycling plant happening in WA. (And make bottles or bricks or whatever..)</p> <p>Get a brains trust together Hey.. CSIRO to actually come up with some business solutions.. And we have universitys here!! use them!</p> <p>Plant Trees Everywhere! and then more!</p> <p>Green the deserts! The more plants the better.</p> <p>Stop using bitumen as the top coat for roads.. Paint them white or grey to reduce the heat trapped in the cities.</p> <p>More better public transport.. Make (Petrol) cars too expensive to use.. (They will be soon anyway..)</p> <p>(Even more trees) get rid of half the ovals in Perth. and plant forests..</p> <p>Actually charge big corporations for the water they use!</p> <p>Make massive floating windfarms! We are a windy city!</p> <p>And then.. There is the default stuff from the climate council.. All of this is good too.. But it needs to be all of it! not cherry picked tidbits that are easy to swallow.</p>
Ken Waterhouse	<p>It seems rather hypocritical that one of the Governments own agencies ,The Forest Products Commission is allowed to continue to log our Native Forests whilst running at a loss and being propped up by Government and the Taxpayer I.e. Net cash payments from the government have totaled \$110 million</p> <p>Native forestry profits have fallen, with losses in each of the last four years totaling \$34m.</p> <p>Production is down, as are yield per area and quality, with increasing volumes of native forest timber going to lower value use like woodchip and charcoal rather than high quality sawlogs.</p> <p>Forest values have also declined, reflecting little optimism about future prospects.</p>

	<p>6) Subsidize more solar ,wind off grid systems for low income homes and small business.</p> <p>7] there needs to be more done in the planning of new infrastructure, for example they mine Lithium at Greenbushes, yet the process plant was built in Kemberton miles away so the heavy ore has to be carted by road the tailings / waste has to be carted away from the plant, a place to store it miles from the "plant" has yet to be found ,all adding up to a large carbon foot print , The lithium could be processed at the mine ,the waste returned to the mine pit ,the finished product "much lighter than the ore " could then be carted to the port preferably by rail.result much lower carbon foot print!! Less damage to roads less trucks on roads lower road accident rate.</p> <p>8] better planning on water infrastructure, logging in water catchments have a detrimental effect on water quality reduce water flows research in Victoria has shown that With logging occurring every 60-120 years, large areas of ash forest are kept in a high evapotranspiration stage of growth, therefore releasing less water back into the catchment.</p> <p>Here in WA we log our water catchments to "improve runoff " against all credible science that it has the opposite effect.</p> <p>Logging is underway again in forest logged in 1998 in the States largest Dam's catchment the Wellington as well as the Harris Dam despite WaterCorp stating that it is a fully forested Catchment and the water being NoN Potable Water and requiring treatment to improve its quality,</p> <p>Water from drinking water dams being sold off to industry with no thought to the future</p> <p>9] the existing rail infrastructure in the rural areas needs to be reopened ,upgraded and expanded to reduce the number of large trucks on rural roads to reduce damage to roads cut emissions and improve road safety.</p> <p>10] Public service sector and Career Public Servant as well as Politicians must be made accountable for damage to the Environment,</p>
Kent Broad	We cannot rely on the Federal Govt. (or the Federal opposition for that matter!) to achieve our Paris targets (even using the shifty

	<p>leftover Kyoto credits), so the WA Govt. needs to step up and determine what we are going to do about our responsibility towards the carbon budget</p>
<p>Kevin Brady</p>	<p>The impact of climate change on the state will devastate local environments and impact on people and the economy. At current rates of temperature change, the Karri trees of the South-West will be nonviable in less than one hundred year. These will be lost to humanity forever.</p> <p>1) A statement recognising that human induced climate change is real and that every government should make an effort to address it.</p> <p>2) A plan for transition to achieve zero net emissions as soon as possible. Legislate to deliver science-based interim targets and an emissions reduction pathway in line with a fair and equitable contribution to limiting global warming.</p> <p>3) Support for new jobs in clean industries and support a just transition for affected workers and communities.</p> <p>4) Plan for the implementation of renewable energy and the phasing out of climate damaging fossil fuels.</p> <p>Furthermore, I support the codification of these policies in legislation.</p>
<p>Kim Hamilton</p>	<p>Science confirms we have under 12 years to make significant changes and reduce carbon emissions to avoid climate catastrophe - this deeply frightens me and I wonder what the future holds for my children.</p> <p>Here in WA our carbon pollution is rising at alarming levels and moving higher in the wrong direction -despite the science and dangers of global warming being clear. WA is in a unique position to evolve as we have the capacity to become leaders and champions of new industries such as renewable energy that will assist us to meet targets of the Paris Agreement and beyond. Real action on climate change has the potential to deliver thousands of new jobs, (including in regional and remote areas) and opportunities as we become part of the global solution.</p> <p>The science is undeniable (I trust 98% of scientists) the effects are already being felt (fires, drought, temperatures, rainfall, coastal erosion, species and habitat loss) and corporations, investors and insurance companies are beginning to act as climate factors impact</p>

	<p>their business and become a growing risk into the future. This is an opportunity for WA to lead Australia and evolve our state and our economy in innovative ways to best serve our people and the planet.</p> <p>3) The uptake of solar power by individual households has been a great success and should be further capitalized upon.</p> <p>4) Many companies are already exploring renewables and other options for their own profit benefits and to mitigate future risks - the WA government should be legislating and leading these initiatives for clear and comprehensive state- wide initiatives across industry.</p> <p>Please listen to the science. If you went to the hospital and 98% of the Doctors told you you were in danger and needed to take a certain course of action, you would do it without hesitation. We live in a lucky state and country where our government provides systems (Medicare, public Health services) that support every person to receive and follow health advice from experts and promotes health and wellbeing at a community level ...we now need to do the same to protect the environment. I understand this is a big shift in our current economy and systems but it will be for the wellbeing of WA people and the prosperity, reputation and sustainability of our state far into the future.</p> <p>Thank you for considering this submission. Please act as our elected representatives to do the right thing for WA people and our beautiful state - the time has come for action and integrity!</p>
Kirsty Hitchman	<p>Governments that don't act and don't act fast are condoning a planet that is going to radically change within 20 years. They will be held accountable.</p> <p>We have answers that are economically possible and certainly cheaper than trying to fix things when it is too late.</p> <p>Your electorate is intelligent and active, they want swift action but require leadership. Half hearted leadership on this issue leads to stress, dissatisfaction and despair Your government could be that shining example to the whole of Australia. Take action and take it now.</p>
Lance Stringer	<p>I know that this submission is the same as many others that you will receive but I fully endorse all points above. T</p>
Lee Fretz	<p>How can we look our children in the eyes while WA is at the bottom of the country in investing in renewable energy?</p> <p>How come old growth native forests are still being destroyed instead</p>

	<p>of valued for their carbon storage? I voted Labor in the last election, but have lost faith when they green lighted fracking.</p>
Lee-Anne Groenewegen	<p>I am deeply concerned about climate change and support strong and urgent action - it is a high priority!! Carbon pollution is rising out of control in WA, we can change it! Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.</p>
Leoanrd Warren	<p>The Premier, Mr Mark McGowan, I am alarmed about climate change and support strong and urgent action by the WA government. Our WA greenhouse gas emissions, led by Chevron and Woodside, are a significant contributor to the rise in world temperatures that is providing the conditions for disastrous fires that have already this year claimed six lives and 600 homes.</p>
Linda Carroll	<p>Because pollution generated anywhere affects the entire earth. In WA carbon pollution is rising out of control, but it is possible to do so much better. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.</p>
Lindsay Stewart	<p>For me the dominant issues in relation to preserving the earth as we know it are: 1 Population Control; and 2 Energy storage (we already know how to generate it from renewable sources). 3 Cessation of the use of chemicals which destroy any form of life (antibiotics could be excepted for the next 100 years)</p>
Lynette Robley	<p>The lack of a gazillion visible stars and our once crystal clear blue black night sky should clearly be a motivator to stop pollution. Twinkle, twinkle little star how I wonder WHERE you are. ONCE above the sky so Blue (now its grey) I don't see you! Pollution kills our plants and trees. Save our planet, save it PLEASE!</p>
Margaret O'Donnell	<p>You cannot do both. Claim you are proactive about reducing emissions and allow polluting industrious.</p>
Margarite Reynolds	<p>As an Australian citizen presently living in the U.S., I am deeply concerned about climate warming. I support strong and urgent action as a matter of highest priority for all levels of government. In WA , carbon pollution is rising out of control. This is</p>

	<p>environmentally unsustainable. The WA government's energy industry policies are destroying the land, polluting the air, and in no small measure contributing to global warming. This does not have to be the case. WA needs to become part of the global solution, addressing the climate crisis, not worsening it.</p> <p>Final reminder: Real action on climate warming will deliver thousands of new jobs and opportunities as we become part of the global solution.</p>
<p>Maria McAdam</p>	<p>2) Permanently protect natural carbon stores?in WA's forests and other ecosystems, and rapidly transition away from native forest logging and clearing; this in turn will protect the increasingly diminishing biodiversity and allow natives the best change to evolve and migrate in a changing climate.</p>
<p>Marianne Neave</p>	<p>There are sound reasons to progress rapidly to a new energy economy, including economic, health and environmental benefits. Renewable energies have the potential to boost the western Australian economy in a far more equitable way than the current system is able to do.</p> <p>From an ethical point of view we must also be accountable for the impact our continued mining and production of fossil fuels has on the global environment. The health benefits to communities of moving away from fossil fuels are significant, and our continued willingness to supply fossil fuels slows the transition of other countries into the new energy economy. With scientific reports indicating we will collectively not keep global temperature rise to 1.5° it is now a matter of urgency that we do all we can to cut emissions as soon as possible.</p> <p>We have known about the impact we are having on the environment for decades. It has now come to light that not only was the oil industry aware of their impact on the environment more than 40 years ago, the coal industry was aware in 1966.</p> <p>I draw comparisons to the other global environmental issues. In the mid 70s I first heard of damage to the ozone layer, by 1987 we had the Montreal Protocol, and individual governments followed through with legislation and policies to support action on CFCs. The scientific evidence now shows this was effective. I heard about the issue of acid rain in the early 1980s. The Helsinki Protocol was passed in 1995, and various governments passed legislation to address this problem. Again, we see this was effective. By contrast,</p>

	<p>I heard about emissions based global warming more than forty years ago, and all I have really seen is the problem become far far worse. Had we acted 30 years ago we would not be having the bushfires, floods and droughts that are now being reported on a daily basis around the globe. If we delay real action another few years, if we continue to be part of the problem, there will be no turning back.</p>
<p>Marion Treasure</p>	<p>Further...</p> <p>Please bring an immediate end to all exploration for fossil fuels, leave current known sources in the ground rather than threaten our environment by bringing them to the surface to send to foreign lands for storage as their wealth.</p> <p>We must keep it here, underground where it is available if needed for our future.</p> <p>However, with strongly growing community demand for, and exponential growth in renewable energy in the light of carbon emissions and climate change, there is very little chance it will be needed, other than for, dare I say, "reckless human greed".</p> <p>Please keep your investigation open minded, in consideration of the health and well being of the whole community, environmental protection and the quality of life for those living seven generations hence.</p> <p>This is true Wisdom and Statesmanship.</p>
<p>Mark Teasdale</p>	<p>7)Help Agriculture to develop more sustainable and regenerative farming practices</p> <p>8) Increase energy efficiency in homes and business's</p> <p>9)Provide incentives for electric cars and charging station infrastructure</p> <p>10)use renewable renewable energy to promote more processing industries for our raw materials and value adding industrie</p>
<p>martin timms</p>	<p>I am really pleased that the WA State Government is actually taking time to revue our current position on emissions and what is possible in the future.</p> <p>We really have no time to spare. The science and facts are beyond any doubt. Anything less than immediate action to drastically reduce our carbon and many other pollutant gases will condemn future generations (and the current ones) to a hopeless future.</p> <p>Waiting for other global leaders or even our federal government is pointless. We all need to start and the best place to start is right here at home.</p>

	WA can and should be a global leader in emission reduction and remain economically strong
Mary O'Byrne	<p>The cost to our future generations is immeasurable, if we continue to take insufficient , or ineffective action. In fact, I consider it criminal to expect future generations to pay for our present prime minister's fixation with coal. Coal's day is done. This beautiful state will burn for longer periods, the droughts will continue and the wild storms will continue putting lives at risk. It's only a matter of time before a greater number of us are impacted by insurance companies refusing to cover for floods, wild storm damage and wild fires.</p> <p>Act on the evidence: If the state government really wants accurate up to date, factual non biased information then it should look at the insurance industries factual data ... the industry is there to make a profit, not bail out poor government decision making. They won't fudge the issues, but will take remedial action against climate afflicted populations. In other words they won't insure if they are at high risk of having to pay out.</p> <p>Lead Action: I expect this lead-action - if climate change intervention action is seriously undertaken now by our state government – then I expect this action to translate across to federal government action ... somehow we have to move our federal government away from ridiculous complacency. I wish there was more strategic thinking on the part of progressive political parties to make the changes we need happen and I wish the Labor Party listened to their membership instead of using polls to direct their election campaigns. The party should not run scared anymore of dealing with Global Warming / Climate Change.</p> <p>Evidence based decision making: To ensure positive action happens then all levels of government should look to other evidence based data – our Australian scientists are some of the best in the world. They don't have their heads in the sand like our politicians do ... Politicians run away from climate issues because they expect negative fallout at the polls. The state government should stand firm now on positive climate action even if political opponents change the issues to a 'great big tax' banner ... the disgraceful tactics pursued by both Prime Ministers Abbott and Turnbull in past years. There should be an effort to obtain respectful all party support for an emissions trading scheme as well as positive action to convert the population at large to renewable energy schemes specifically designed for all (including local conditions). The grid system should also be updated to receive load from whatever sources. And cost effective storage to ensure supply.</p>

Our Carbon Economy: Presently we are a highly intensive Carbon Economy and instead of reducing our emissions from 28% to 26% by 2030 as promised we have increased our emissions on a yearly basis. As a consequence our climate is getting hotter, our native species – flora and fauna are diminishing, farmers are under stress across the country unable to make an adequate living. They are at the mercy of diminishing rainfall patterns and rising temperatures. They are also our most isolated workers and drought and economic hardship has made them more prone to suicide with their death-rate double that of the general male population from this cause.

According to Climate Tracker:

(<https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fclimateactiontracker.org%2Fcountries%2Faustralia%2F&data=02%7C01%7Cclimate%40dwer.wa.gov.au%7Cdeb0e873213a42093e3a08d775124a08%7C53ebe217aa1e46feb88e9d762dec2ef6%7C0%7C1%7C637106593717228728&sdata=KPihcJrbzxnUb8dEhGhvjRZ6nnFHjR1pM9IGN1w12pE%3D&reserved=0>)

Australia's climate policy is further deteriorating, as it focusses on propping up the coal industry and ditches efforts to reduce emissions, ignoring the record uptake of solar PV and storage, and other climate action at state level. The Australian Federal Government has turned its back on global climate action by dismissing the findings of the IPCC Special Report on Global Warming of 1.5°C and announcing it would no longer provide funds to the Green Climate Fund (GCF), which is shameful.

Underdevelopment of renewable resources: We are a country with hugely underdeveloped renewable energy resources – and though nothing can be done now about the time already lost we should at the very least be meeting the global emissions targets and line up with Paris Agreement central aim to keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius. We need to fully commit to renewable energy now.

100% Renewables please: WA State Government should legislate for 100% renewables but at the moment WA is the only state or territory yet to commit to any renewable energy target. Seems like the obvious first step arising from this survey of public opinion to get this legislation in place.. WA also needs a pricing system on pollution. We should aim for 100% renewables by 2030 ... job creation would be huge and we could export the result to the rest of the world. WA could introduce a subsidy scheme to help families

afford mass renewable energy storage. And social housing should be upgraded to include renewable technologies.

There are health consequences for ignoring the deplorable conditions we are presently living with. Fires cannot be curtailed easily and as seen recently in Queensland and Sydney the issues around dense smoke in the atmosphere is huge to asthmatics, the vulnerable young and the elderly and any with compromising health conditions. And can we expect our firefighters and fire impacted populations to remain mentally stable dealing with death and climate impacted uncertainties facing them for longer portions of the year?

WA Industry can be incentivised to switch to renewables. Some major mining companies have already switched to renewables such as Agnew Gold Mine, near Leinster and GMA Garnet Groups Mine near Kalbarri. The WA population is highly skilled ... and there are great facilities for upskilling the workforce. We have our children's future compromised if we don't transition. One way to increase the possibility of meeting our targets is to give the vote to 17 year old's. They won't worry about party affiliation – they are too worried by having to pay on into the future for the mistakes we older Australians have made They'll simply make politicians accountable now for inactions, or for fudging the issues.

Innovation: The world's first solar powered Hydrogen Education and Research Building was opened in Griffith University, Brisbane in July 2013 – the building is entirely powered by photovoltaics and hydrogen storage technologies and its purpose is to showcase this form of renewable energy to the world. The WA government could support the growth of such renewable energy enterprises with renewable sources garnished for hydrogen production from solar, wind, & biomass.

Housing Opportunity Areas (HOAs). There's little use in putting in a leafy tree program to ameliorate the Heat Island Effect in a high thermal area and then subjecting the same area to high rise HOA development– no leafy trees on verges because of carparking and no amelioration to heat in the building materials used. Maximum dwellings to a block and clear felling of the 'old blocks' trees.

See Thermal Map for City of Joondalup which guided the Leafy Tree Program in the District.

<https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.joondalup.wa.gov.au%2Fwp->

content%2Fuploads%2F2017%2F12%2FCity_Wide_Thermal_Map.pdf&data=02%7C01%7Cclimate%40dwer.wa.gov.au%7Cdeb0e873213a42093e3a08d775124a08%7C53ebe217aa1e46feb88e9d762dec2ef6%7C0%7C1%7C637106593717228728&sdata=44B%2F9XiW%2F9EttKBGEE3%2Bbr1wJOxgofcQ06VzVaE5kj0%3D&reserved=0

Then look at the areas that are targeted for HOA Development – e.g. see Currambine

https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.joondalup.wa.gov.au%2Fwp-content%2Fuploads%2F2018%2F07%2FCurrambine_Locality_Map.pdf&data=02%7C01%7Cclimate%40dwer.wa.gov.au%7Cdeb0e873213a42093e3a08d775124a08%7C53ebe217aa1e46feb88e9d762dec2ef6%7C0%7C1%7C637106593717228728&sdata=HemG8xj6JWkispirbZii58p97K%2BuklmN64LAJBn3W0%3D&reserved=0

It's thermally very hot around the Currambine train station, where the housing density is set to increase hugely because of HOA infil.

General HOA Sites, City of Joondalup: See

<https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.joondalup.wa.gov.au%2Fkb%2Fresident%2Flocality-maps&data=02%7C01%7Cclimate%40dwer.wa.gov.au%7Cdeb0e873213a42093e3a08d775124a08%7C53ebe217aa1e46feb88e9d762dec2ef6%7C0%7C1%7C637106593717228728&sdata=C35YgUs2zEmTh7oBG%2B000pl%2Fur4KYavRkFLSbWbsHg0%3D&reserved=0>

Arthur doesn't know what Martha is doing ... the same thermal map should have dictated not only the placement of the 'Leafy Trees', but also the placement and height of the HOA developments. The responsibility for getting this right comes down to councils and the state government. I appreciate that urban sprawl has to cease, but please do not turn our HOA suburbs into high density, climate effected ovens.

In General: Homes should have rooftop solar panels and solar hot water systems. New homes should be north facing. Have a roof colour that reflects heat rather than absorbs it and the planting of trees and shrubs should be encouraged, particularly local native trees and shrubs to provide shading especially on the west side of buildings.

	<p>Low emissions vehicles: EV's are not affordable to low income earners, or the unemployed. In fact, low income earners will go on using high emissions vehicles long into the future because they won't be able to afford to transition to the EVs without state government support. Access charging points for EV vehicles are increasing, but more are needed. The state government should help low income earners to transition to low emission vehicles or increase public transport in a major way.</p> <p>Suburb by suburb: Metronet is a great concept, but public transport needs an overhaul suburb by suburb ... I recently door knocked around Currambine Train Station for a LG Campaign and unbelievably there is no bus pick up outside the station, no bus can enter the station to pick up and passengers not in-the-know get stranded waiting for transport. The residents in the old part of Currambine cannot take a bus to the new shopping centre and the elderly were telling me that they'd have to move - they couldn't age-in -place because of the transport problems.</p> <p>Renewable Economy: The state government should turn over completely to a renewable economy and provide a 'minimum template' for a sustainable, renewable future - whether it is farming, industry, or domestic enterprises. We should have respect for the land, respect for the expertise of the Aboriginal First Nation's People. Industry should be rewarded / recognised for innovation ... and individuals also with public recognition ceremonies.</p> <p>Finally, I volunteer with a Coast Care Group and I know how positively working in the coastal bush reserves affects my health. I'm never happier elsewhere. I would like to see the remaining Bush Forever sites fully protected as 'A' Reserves and properly restored; that the remaining sites are held as an educational tool for our future generations and as a resource to be enjoyed by flora and fauna endemic to the areas. We also need tall tree canopies /native species in our suburbs (bird habitats) and green corridors for the safe passage of little native animals. I hope the state government acts now to stop the loss of more land parcels from these sites. We need them for carbon sequestration and for maintaining bio diversity. Invest more monies in volunteer urban coast and land-care groups ... they are worth their weight in gold as an educational resource and as a means of sustaining bio diversity.</p>
Matt Hawksworth	The world is on fire and it's time to start thing something.

Matthew Curry	<p>Climate change should be the number one priority and concern of every government, council, business and organisation. It is the most pressing issue of our time, and also a massive opportunity if we seek to act.</p> <p>Thank you for the opportunity to provide comment on the WA Climate Change Paper. Below are some extremely important avenues of action for the McGowan government to take.</p>
Maureen Steele	Clean Air, clean water are top priority. We cannot live without these.
Meegan Cullen	For too long, scientists have been suggesting changes needed for the protection and preservation of the environment and had their warnings fall on deaf ears, in terms of political change. Please be the government that advocates positive change in WA.
Megan Packer	After years of postgraduate research, interdisciplinary, looking at government policy responses, both in Australia and Canada, to peer reviewed climate sciences, through the past 4 decades, I am deeply concerned about climate change. I support strong and urgent action as a matter of highest priority for all levels of government? And yet, despite countless international meetings, reports, continual calls for meaningful action, over these decades, emissions continue to steadily increase. We deliberately ignore these warnings and seemingly believe we can defy laws of physics, chemistry and ecological tipping points that will pay no heed to human greed and hubris.
Melissa Eood	This needs to be taken seriously especially since all the science is being ignored!!
Meredith Luke	<p>I live in Queensland, however I have travelled through Western Australia and love the landscapes there. In addition, climate change has no boundaries, and affects us all, regardless of geographic locations.</p> <p>Please work to genuinely and immediately reduce emissions and support clean renewable energies</p>
Merrilee Baker	<p>I was planning on writing something totally from my own words but the time limit is up. My research and thoughts are reflected in the word here pre-written as they are. It makes them no less meaningful.</p> <p>When researching for a public submission to the NT Inquiry into fracking I discovered that LNG produces more emissions than what is generally quoted due to the whole process not been taken into</p>

	<p>account and that methane is far more powerful at raising global warming than carbon.</p> <p>Your paper does not address this huge elephant in the room.</p> <p>Cutting down forests and continue clearing of bush must stop. Deforestation is pushing us to the face of extinction quicker than the best science e predicted a few years ago.</p> <p>The Rights of Nature Bill must be passed. Biodiversity loss, especially due to habitat destruction has already made a lot of flora and fauna extinct. Our food chain and ultimate supply can not work if we lose too many cogs. I have heard that societal collapse is likely to come within the next 5 to 10 years due to crop failures.</p> <p>Obviously I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government?</p>
Michael Hosking	<p>Climate change is not going to go away,decisions have to be made to secure our and the planets future.Please be the Government to do that.</p>
Michelle Murtagh	<p>The WA government must put in place a strong policy for climate change that will actually make a difference, especially for the fact the federal government are doing nothing in this space. It is so important now more than ever.</p>
Michelle Sheridan	<p>6) Support climate adaptation programs and partnerships, including with Aboriginal people and communities, farmers, local governments, businesses and other sectors where drought, fire and catastrophic weather events will have the most impact.</p> <p>8) Provide planning incentives to property developers and builders that implement development controls to achieve negative carbon housing in new housing estates.</p> <p>9) Over a short time frame, implement a programme to retrofit Dept of Housing stock with insulation, efficient appliances and solar panels to provide the benefits of cheap renewable energy and thermally efficient housing to those who need it most.</p> <p>10) Provide incentives to electric vehicle owners to increase uptake and phase out older vehicles with poor emission and efficiency.</p>
Mike Kenny	<p>There is no great existential threat to humanity that Climate Change.</p> <p>We must take drastic and immediate action on the mitigation of climate change effects and reduce fossil fuel burning around the</p>

	<p>globe.</p> <p>As a Scientist and Engineer, I have been dismayed by the ongoing and totally unscientific climate change denial rubbish that is peddled by sections of Australian parliaments.</p> <p>My company measures the effects of energy use within transportation, and I have always promoted energy conservation, supported renewables and opposed fossil fuels.</p> <p>I appreciate the opportunity to comment on the WA government's climate change discussion paper. I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government?</p> <p>Here in WA our carbon pollution is rising out of control, but we can do so much better. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.</p>
Mina Roberts	<p>As a West Australian living elsewhere, I thank you for the opportunity to comment on the WA government's climate change discussion paper.</p> <p>In WA, carbon emissions are rising out of control, and we can do so many things better. Real action on climate change can be a win-win for our state - not only can we become part of our solution and support our primary producers, but real action can also deliver thousands of new jobs and opportunities.</p>
Monica Leggett	<p>We owe it to future generations to curb our emissions and to work towards planet repair.</p> <p>I join others in calling for a comprehensive state-wide policy on climate change that includes the following at a minimum:</p>
Nathalie Casal	<p>Please remember that Australia could not win WWII on it's own but as a concerted effort with allies we did a splendid job to be proud of. So it is with climate change. We cannot shirk our duty to do our very best especially when it also means that transitioning to new jobs which fight climate change will also put us ahead commercially.</p>
Ned Jordan	<p>I read that Gorgon, who's carbon sequestration plant wasn't quite ready did NOTHING to stop CO2 emissions, sent 11,000 TONNES OF CO2 loose with WA labor's ok..</p> <p>..ie no censure, fine or encouragement to make sequestration work...WHICH IT DOESN'T AND NEVER WILL</p>

	I CANT EVEN IMAGINE A TONNE OF CO2 !!! How huge is that?
Nell Thayne	<p>Gas is a polluting fossil fuel that releases greenhouse gas emissions at every stage of the industry, including extraction, processing and burning of gas for energy. However Western Australia has huge potential in clean renewable energy solutions and we do not need more gas.</p> <p>I support Western Australia adopting and legislating science-based emissions reduction targets for our state that reflect international commitments under the Paris Agreement. Development of a gas fracking industry in WA is totally inconsistent with such a policy.</p> <p>I want to see a climate change policy in WA that permanently rules out gas fracking and other fossil fuel developments and instead supports renewable energy solutions for our state.</p>
Nicholas Doyle	<p>1) Immediately reduce WA's carbon pollution and achieve zero net emissions as soon as possible. Legislate to deliver science-based interim targets and an emissions reduction pathway in line with a fair and equitable contribution to limiting global warming to 1.5 degrees. Also make these targets legally enforceable and not just guidelines, so as to actively achieve them.</p> <p>4) Hold WA's biggest polluters to account. Require companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming and renewable energy, or by introducing a carbon tax on all polluting industries.</p> <p>5) Permanently protect natural carbon stores?in WA's forests and other ecosystems, and rapidly transition away from native forest logging and clearing.</p> <p>6) Support climate adaptation programs and partnerships, including with Aboriginal people and communities, farmers, local governments, businesses and other sectors. Also provide opportunities for poorer communities to benefit for these new clean initiatives, since they will be the most heavily affected. Provide increased and cheaper public transport options and solar systems in government housing.</p> <p>Thank you for considering this submission. With these changes WA can be at the forefront of a clean and sustainable future or we can be left behind while further contributing to the destruction of our world. The initiatives to implement all of this are readily available</p>

	<p>right now, all you have to do now is decide to use them. Please, I urge you to act now before it's too late. For all of our sakes.</p>
Nicole Workum	<p>I started work with businesses back in 1997 to help them reduce their climate impacts and they were looking. For strong and reliable policies from government. In 20 years we have made very little progress and all the while the impacts of climate change grow, inline with predictions scientists were making back then.</p> <p>It is time for governments to catch up to the scientists, community and even many businesses who are demanding action.</p> <p>I implore you to make significant policy changes now and set up WA to be a leader on climate action and the growing industries that are emerging in other countries.</p>
Nolan Penning	<p>Can you please try a bit harder? It seems like all we hear from you and the liberals is “jobs”, “economy”.</p> <p>You need to think a bit further than next election and take advantage of the huge sun and wind gifts WA has. If you haven't noticed it's always sunny and if it's not easterlies it's SSW sea breezes all up our long dry coast.</p> <p>No more gas projects that release huge quantities of co2 directly into the air before they even capture the methane.</p> <p>I know you're not scientifically educated but, Gas (methane) is really as bad as coal, as there are large losses in the network and pipelines and it is by far the most potent greenhouse chemical.</p> <p>Think of YOUR children. Be honest with them, they will grow up and be disappointed in you in the future if you don't be a strong leader.</p> <p>BTW GDP and growth percentages are not good targets anymore.</p>
Norma Cheeseman	<p>Thank you for considering this submission. It is made with the consideration of the future to allow our Children, grandchildren and the future generations, after we are long gone, to enjoy and take for granted the wonderful clean beautiful environment they live in</p>
Norman Pater	<p>I respond to your invitation to comment on the WA government's climate change discussion paper. I am a businessman and a farmer and have a post-graduate degree, but I am not a climate scientist. I simply read much on the subject as I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government?</p> <p>Being acutely aware of the world's desire to limit global warming to 1.5'C, it strikes me as bizarre that the WA government seems to</p>

	<p>have no plan for this future. There is no plan to limit the growth of WA emissions, which are large and distressing to many, both caused directly and by indirect Scope 3 emissions. This inaction should not continue! Real action on climate change has the potential to deliver thousands of new jobs and opportunities as we become part of the global solution.</p> <ol style="list-style-type: none"> 1. Engage with credible scientists to set achievable targets for emissions reduction for 2030, 2040 and 2050; and 2. Immediately announce policies which ensures that WA is capable of meeting those targets; and 3. Enforce conditions which have previously been set for the gas corporates to reduce and offset their emissions; and 4. Use the funds from carbon offsets to create a WA Future Fund. Use this Fund only to <ol style="list-style-type: none"> a. unlock the full potential of new jobs in clean industries; and b. repower WA with renewable energy, and phase out coal, oil and gas production. 5. Place a moratorium on all new fossil-fuel developments. (Our carbon budget simply does not allow for this); and 6. Permanently protect natural carbon stores in WA's forests and other ecosystems, and rapidly transition away from native forest logging and clearing. <p>I have already started to revegetate my 3 farms in the north-eastern wheatbelt with native trees and shrubs. This is the least I can do.</p> <p>I trust you also will act with high integrity and urgency to avoid the worst effects of future climate change.</p>
Oska Flood	<p>Western Australia is on the frontline of climate impacts and has a vital interest in the world, and Australia as a whole, taking sufficient action fast enough to keep hold global warming within the Paris Agreement's 1.5°C temperature limit to protect its unique and iconic ecosystems, coastal and agricultural regions, and the health well-being of its population. WA's iconic ecosystems and World Heritage sites such as Ningaloo are threatened by warming above 1.5°C and are already showing substantial damage with a global mean warming of 1°C. Marine heatwaves are already damaging fisheries and causing massive seagrass loss at Shark Bay. Declining rainfall and rising temperatures in the south-west are creating escalating pressure on agriculture, water resources and there are early indications of agricultural product productivity failing to keep up due to the impacts of a warming and drying climate. These changes are also threatening WA's unique biodiverse land ecosystems.</p>

Sea level rise is causing escalating problems on the coast, with accelerating beach erosion and retreat threatening infrastructure, homes and lifestyles and are the first signs of the consequences of the accelerating global sea level rise now being observed in many towns and coastal parts of Western Australia. As the Intergovernmental Panel on Climate Change (IPCC) Special Report on 1.5°C (IPCC SR15) has established every increment of global warming will rapidly escalating damages, impacts and risks. WA's coral reefs, such as at Ningaloo, face a 70-90% loss for 1.5°C warming, and virtually complete loss of more than 99% by 2°C global mean warming above pre-industrial. This study aims to provide key Paris Agreement compatible carbon budget benchmarks and greenhouse gas reduction pathways for Western Australia consistent with the state playing its role in global efforts to limit warming to 1.5°C. The results include State wide emission reduction goals needed for 2030, options for WA to meet its aspirational net zero GHG emissions goal for 2050, and the broad policy changes needed to meet this budget. WA and the National context The Australian national reduction target for 2030 of a 26-28% reduction compared to 2005 emission levels is inadequate. National reductions in the range of 44-61% by 2030 are needed to be consistent with the level of action Australia needs to play in global efforts to limit warming to 1.5°C and to meet the Paris Agreement's long-term temperature goal. Such 2030 emission reductions are needed to put the country on a cost-efficient pathway to achieve zero net GHG emissions by around 2050. The 1.5°C compatible state level greenhouse gas target for Western Australia estimated in this report is a reduction of 49% by 2030 (from 2005 levels). Whilst this is within the Paris Agreement compatible national emissions reductions range for Australia as a whole it should be noted that the reductions by 2030 for Western Australia are likely to be slightly less than the total national reductions that will need to be achieved by Australia, due to the particularly energy intensive character of the WA economy, and in particular its very large LNG sector. EXECUTIVE SUMMARY A 1.5°C Compatible Carbon Budget for Western Australia 2 In the national context, when Australia begins to deal with the question of national emission reduction seriously, it cannot be assumed that the other states will accept WA doing less than them. We have not examined these issues in this report, but it is clear that policymakers in Western Australia do need to be cognisant of the relative levels of action between the states. The experience with the European Union has shown that each will have its own set of arguments on what is a fair and economically effective division of mitigation responsibilities.

Although in August 2019, WA adopted an ‘aspirational goal’ of achieving net zero greenhouse gas emissions by 2050 as of yet it does not have any targets for renewable energy nor does it have a specific 2030 reduction target. Western Australia is now the only state or territory without any renewable energy target. Several other states are moving ahead with developing more ambitious levels of action and there appears to be little or no coordination between the states on this, and it cannot be assumed that these states are contemplating Western Australia doing a lesser share than themselves. Western Australia has unique opportunities to develop its own vision and strategy and reap benefits of being a global leader in implementing the Paris Agreement. It is independent of the current failure at the federal level: with its own independent energy system, unique opportunities and prime renewable energy but also minerals resources. WA has the opportunity to develop new manufacturing industries with added value and employment creation and moving away from being an exporter of carbon to becoming an exporter of zero emissions energy carriers (green hydrogen, ammonia, or electricity to neighbouring South East Asian countries) and products. It also has unique challenges, with the physical scale of the LNG industry and the extensive and deep links this industry has with the political parties and government of Western Australia raise important public policy issues in relation to long-term public interest and climate governance in the state. Nevertheless, the abundance of capacity, renewable energy resources and links to important Asian markets mean that there is a transition strategy open to the state to explore for the LNG industry to decarbonise, and for the state to transform into a major exporter of renewable energy, either directly at electricity or through green hydrogen exports. A major part of the study focuses on a Paris Agreement compatible carbon budget for energy and industry for Western Australia because the largest source of greenhouse gas emissions in the state is from carbon dioxide emitted from fossil fuel combustion and use. Globally, carbon dioxide is the main driver of human induced climate change and ocean acidification, and CO₂ from fossil fuel is the largest source, about 66%, of total GHG emissions globally. In Western Australia, energy and industry emissions are the largest source of GHG emissions, with CO₂ and methane (CH₄) emissions from fossil fuel use for energy and industry adding up to a share of 89% of total WA GHG emissions (excluding LULUCF). The most rapidly growing source of greenhouse gases in Western Australia is from the LNG sector, with a more than threefold increase (318%) since 2005, with the sector doubling in size over the last five years and set to increase by nearly 50% by the late 2020s. We know from the IPCC SR15 that to

meet the 1.5°C limit in the Paris Agreement CO2 emissions from all sources need to peak around 2020, be reduced by 45% by 2030 compared to 2010 levels, and reach net zero CO2 emissions around 2060. This report also shows that the energy transformations required to achieve this are technically and economically feasible and can have large sustainable development benefits. To develop a carbon budget for Western Australia we draw upon the modelling framework that gives these global results and apply it within the West Australian context so that the budget of carbon dioxide emissions, as well as the dynamics of the energy system transformation are consistent with the global results. A 1.5°C Compatible Carbon Budget for Western Australia 3 Carbon budgets for Western Australia energy and Industry sectors: Key conclusions The carbon budget for Western Australia's fossil fuel CO2 emissions for the period 2018-2050 is estimated at around 950 MtCO2. This is about 0.17% of the remaining global carbon budget until zero emissions. If current emission rates were maintained this budget would be consumed within 12 years. With the right policies and modern technologies this budget can be spread over the next 30 years so that zero CO2 emissions are achieved by 2050, but the pathway to stay within this budget is critical: CO2 emission reductions of about 37% by 2030, 81% by 2040 (all compared to 2005) and zero emissions by 2050 are needed. Delay in reducing emissions will imply faster reductions later to stay within carbon budget, implying higher costs and disruption, and risk of locking further into fossil fuel infrastructure.

Climate Change poses a severe threat, with impacts and risks being significantly lower at 1.5°C compared to 2°C or higher temperature increases above pre-industrial levels. • Avoiding these severe risks is still feasible, but requires cutting global greenhouse gas (GHG) emissions by 45% -about half - by 2030 compared to 2010 levels, and reaching zero CO2 emissions from all sources by 2050 globally, and net zero GHG emissions globally by 2070. Whilst these global reductions levels are not applicable exactly to each national and sub-national context they do provide a basic orientation for policy and the emission pathways needed to meet the Paris Agreement: a 45% reduction in energy and industry CO2 emission or GHG emissions by 2030 compared to 2010 corresponds to about a 40% and 45% reduction compared to 2005 levels for Western Australia respectively. Because of the key role of energy and industry CO2 emissions to achieve the Paris Agreement temperature goal, the carbon budget for Western Australia will focus on what the state's fossil (energy and industry) CO2 emission limits need to be across all sectors of the economy and energy system, in order to be

compatible with its contribution to meeting the Paris Agreement's 1.5°C limit. In addition, the study looks at implications for the overall greenhouse gas pathway to achieve net zero emissions by 2050, in line with Paris Agreement and the WA State Government's 'aspirational' objective, including necessary reductions in non-energy sectors (agriculture and waste), and the role of the land use sector to compensate for remaining GHG emissions, in particular from agriculture. The study will provide key conclusions regarding necessary CO₂ and total GHG reductions by 2030 and key sectoral strategies and policies across all sectors, taking into account Western Australia's unique situation, responsibility and opportunities. To estimate a carbon budget and emissions pathways for Western Australia consistent with necessary global and national efforts to limit warming to 1.5°C, we use multiple lines of evidence from the scientific and technical literature, making use of state-of-the-art analysis and modelling of technically and economically feasible and plausible emissions pathways and technologies. We also consider sustainability constraints (for example limits to the use of biomass and negative emissions technologies) and economic considerations (we aim to minimise costs). The requirement for deep carbon dioxide reductions and zero emissions means that all emitters - both large and small - will need to take part. It is argued by some in Australia that because it is a small global emitter - about 1.1% to 1.4% of global emissions - then its actions are irrelevant and not necessary. 4 Article 2.1 of the Paris Agreement (PA) defines its long-term temperature goal (LTTG) as "[h]olding the increase in the global average temperature to well below 2 °C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5 °C above preindustrial levels, recognizing that this would significantly reduce the risks and impacts of climate change" (UNFCCC 2015). A 1.5°C Compatible Carbon Budget for Western Australia 12 However, small emitters, under 2% of global emissions of CO₂, added up to close to 30% of global CO₂ emissions in 2017, showing that achieving zero CO₂ emissions, or even very deep reductions, cannot be achieved without comparable action by all smaller emitters. Western Australia, with an independent energy system and unique opportunities and resources, as well as interest in achieving the 1.5°C limit to protect its unique natural resources, has a special responsibility to act in line with what these necessary efforts. The focus of the study is on domestic emissions, and analyse specifically how much the growing LNG sector is contributing to these emissions, but also how it has to and can also contribute to necessary emissions reduction. We will provide an outlook on the current large carbon footprint and the opportunities for Western

Australia to instead contribute to global emissions reductions through exporting zero emissions energy carriers and products.

PARIS AGREEMENT LONG TERM TEMPERATURE GOAL AND 1.5°C WARMING LIMIT

The long-term temperature goal (LTTG) of the Paris Agreement (PA) is “[h]olding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5 °C above pre-industrial levels, recognising that this would significantly reduce the risks and impacts of climate change” (UNFCCC 2015, Art. 2.1 PA). The legally binding long-term temperature goal is, by design, both a substantive and legal strengthening of the previous international goal of holding warming below 2°C, agreed in Cancun at UNFCCC COP16 in 2010⁵. This goal is to be operationalized through the Agreement’s different enabling elements, in particular Article 4.1 which establishes a timetable for peaking global GHG emissions as soon as possible, rapidly reducing these, with zero GHG emissions to be achieved globally in the second half of this century. The timetable for these global reductions and timing of achieving zero GHG emissions is to be based on the best available science. The Paris Agreement LTTG requires a substantially lower level of warming be achieved than the former 2°C Cancun goal, which is still often referred to in Australia. Scientifically, the 2°C Cancun goal is interpreted as emission pathways that have a likely (66% or higher) probability of holding warming below 2°C. Peak 21st century warming in the published mitigation pathways consistent with the 2°C Cancun goal is 1.7-1.8°C and generally these pathways have less than a 50% probability of warming below 1.5°C by 2100⁶. The specific language of the Paris Agreement LTTG means warming should not rise above a level well below 2°C – which means peak 21st century warming needs to be lower than 1.7-1.8°C achieved in 5 UNFCCC 1/CP.16

The Cancun Agreements, Paragraph 4: “Further recognizes that deep cuts in global greenhouse gas emissions are required according to science, and as documented in the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, with a view to reducing global greenhouse gas emissions so as to hold the increase in global average temperature below 2 °C above preindustrial levels, and that Parties should take urgent action to meet this long-term goal, consistent with science and on the basis of equity; also recognizes the need to consider, in the context of the first review, as referred to in paragraph 138 below, strengthening the long-term global goal on the basis of the best available scientific knowledge, including in relation to a global average temperature rise of 1.5 °C”⁶

Note that in the underlying scientific literature, probabilities of holding warming below a certain level for a particular

emissions pathway consider uncertainties in the global carbon cycle and climate system. In this context, for example a “median” warming level associated with a particular global emissions pathway means that 50% of a large collection of climate/carbon-cycle models shows warming above, and 50% shows warming below, the specified warming level, for that particular emissions pathway. A 1.5°C Compatible Carbon Budget for Western Australia 13 pathways consistent with the 2°C Cancun goal with a likely probability (66% or higher probability). The Paris Agreement LTTG excludes interpretations that would have warming rise above a level well below 2°C before declining to a level well below 2°C by, for example, 2100. The latter appears to be a common misunderstanding in the Australian policy debate. In addition, it is important to note that the only temperature limit referred to in the Paris Agreement is 1.5°C above preindustrial levels. The IPCC (2018a) Special Report on Global Warming of 1.5°C (IPCC SR15) has assessed the impacts of global mean temperature increase of 1.5°C above pre-industrial levels, as well as the impacts avoided compared to higher levels of warming including 2°C. The report details the extent of global warming so far and the risks and impacts for both natural and human systems. The projected risks on human and natural systems are vast, and the risk levels take a massive leap between 1.5°C to 2°C warming above pre-industrial levels (Climate Analytics 2019a). One example, is that limiting warming to 1.5°C degrees could mean 420 million fewer people would be exposed to exceptional heatwaves in contrast to 2°C global warming (IPCC 2018a). Risks of species losses and extinction are less likely in 1.5°C scenario compared to a warmer climate of 2°C (IPCC 2018a). Keeping warming well below 1.5°C is essential to prevent these adverse impacts. The impacts of climate change are already being experienced in Western Australia, and the south-west is particularly vulnerable to climate change impacts. The latest data shows average annual temperatures will increase and annual rainfall is declining in the southwest, the intensity and duration of hot spells are projected to rise and increase in frequency (Dept Primary Industries and Regional Development 2019). Modelling suggests the drying trend will continue, with higher risks of droughts and bushfires (Dept Primary Industries and Regional Development 2019). Changes in climate has negative repercussions on the agricultural sector and water supply. Western Australia has experienced sea level rise twice the rate of the global average (Climate Commission 2011). Rising sea levels has created severe risks of coastal erosion in Western Australia (Seashore Engineering 2019). Western Australia is an internationally recognised biodiversity hotspot. Iconic flora and fauna, such as the quokka,

Carnaby's cockatoo and tingle trees, in addition to the Ningaloo reef are at risk from climate change (Climate Commission 2011). The erosion and decline of our native animals, reef, and beaches, also erodes at the identity and culture of the Western Australian. It impacts the quality of life and the drivers of Western Australian tourism. Western Australia has reached a critical crossroad and needs to play its part in climate change mitigation. Already today marine heatwaves are being observed, such as the record marine heatwave of 2011, with unprecedented sea temperature levels and warming anomalies of 2-4°C persistent for more than 10 weeks, which led to massive coral bleaching in the Ningaloo and Shark Bay region and possibly permanent impacts on algae and marine seagrass of and around Shark Bay (around 36% of the bay's seagrass meadows died off) as well as further negative impacts on other species along the food chain.

GLOBAL MITIGATION PATHWAYS FOR THE 1.5°C LIMIT – IT MATTERS HOW WE GET TO NET ZERO

Given the strengthening of the long-term temperature goal in the Paris Agreement, compared to the Cancun Agreements, emissions pathways compatible with the PA must increase substantially both the margin and likelihood by which warming is held below 2°C, and simultaneously satisfy the 1.5°C limit. The IPCC (2018a) Special Report on 1.5°C (SR15) adopted and published in October 2018 has assessed a new generation of mitigation pathways based on Integrated Assessment Models that examine the technical and economic feasibility of holding warming below 2°C and in particular limiting warming to 1.5°C, simultaneously considering many dimensions of sustainable development. The IPCC (2018a) A 1.5°C Compatible Carbon Budget for Western Australia 14 SR15 currently provides the “best available science” for operationalising the LTTG and defining key elements of the emission pathway in Article 4.1, because it provides the most comprehensive and upto-date assessment of mitigation. The IPCC (2018c) SR15 Summary for Policymakers (SPM) defined 1.5°C compatible mitigation pathways as those with no- or limited overshoot above 1.5°C warming: • “no- overshoot”- limit median global warming to 1.5°C throughout the 21st century without exceeding that level • “low-overshoot” - a brief and limited overshoot.

This is your chance to act. Show that you care for the health of Western Australians, in this generation and the world. Show that you realize that the consequences of our actions now will directly impact the lives of billions of others. This is your chance to capture the benefits of a rapid transition to 100% renewable energy for WA,

	and prepare our state for prosperity in the post-carbon world. Don't f** it up.
Patrick Hyslop	It has been very disappointing that so far this labor government has been more concerned with supporting it's friends in the oil and gas industry than the ordinary citizens who they are supposed to represent.
Paul Desmond	<p>I call for a comprehensive state-wide policy on climate change that has Science-based targets and carbon budgets codified in Zero Carbon legislation and includes the following at a minimum:</p> <p>5) Permanently protect natural carbon stores?in WA's forests and other ecosystems, and rapidly transition away from native forest logging and clearing our climate policy should protect native vegetation and urban bushland from inappropriate clearing and habitat fragmentation please introduce permanent protection of the Bush Forever sites along the Swan Coastal Plain and implement all 10 recommendations of the Auditor General's scathing 2009 and 2017 reports on WAs biodiversity loss..</p> <p>7)Climate policy needs to include an urgent review of currant prescribed burning practices with the view to a more strategic approach in collaboration with local communities climate and conservation scientists incorporating indigenous practice where possible.</p>
Paul Frick	1) Immediately protect our most valued commodity, water. Legislate against coal seam gas and any other industry that uses excess, or puts our water supplies at risk.
Paul Payten	<p>Thank you for the opportunity to comment on the WA government's climate change discussion paper. Though I do not currently live in WA, I am nonetheless deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government across Australia.</p> <p>In WA, carbon pollution is rising out of control, however it is simple and possible to do so much better. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution. This is not a myth, urban or otherwise.</p> <p>Given this opportunity of assessing policy, I call for a comprehensive state-wide policy on climate change that includes the following at a minimum:</p>

	<p>Thank you for considering this submission from one from out of state, yet this has impact on other states and it therefore a national issue</p>
Peg Davies	<p>There is an excellent opportunity for WA to make something positive in all senses of 'sustainability' by encouraging carbon reduction (carbon farming and saving on leakages- insulation etc) and promoting alternative fuels for electricity other than gas and coal.</p> <p>Where work is already existing in heavy carbon emitting industries we need to embrace different forms of low carbon emitting work. The technologies exist now but encouragement of moving into viable businesses can be assisted by government incentives. or example tree farm maintenance, seaweed growth and harvest, organic waste utilisation.</p> <p>We need to discourage fracking for its long term damage to land and again promoting carbon emitting energy sources.</p> <p>Financially support climate adaptation programs and partnerships, including with Aboriginal people and communities, farmers, local governments, businesses and other sectors.</p> <p>Have all government building projects including housing be built to the best possible energy and water rating to act as model and also assist tenants (housing) with long term climate changes</p>
Peter Brazier	<p>7) Don't build new town sites in high fire risk areas and with high cost of new roads and expensive infrastructure. This includes the pending town site at North Stoneville. We need to not build in high valued bio-diverse areas in areas of great danger to the community from bush fires</p>
Peter Forster	<p>As a concerned citizen I have one suggestion to reduce our carbon footprint, oil dependency and financial burden.</p> <p>Make public transport transport (buses) so cheap to use that it would be foolish to use a car.</p> <p>By doing so, buses would run full and more frequently. They would be more profitable also.</p> <p>Roads would be less congested and their upkeep less. The need for more infrastructure, car parking etc would reduce. dramatically.</p> <p>This plan is so simple it's advantages require no further explanation.</p>

<p>Peter St Clair-Baker</p>	<p>3) Completely repower WA with renewable energy, phase out climate damaging fossil fuels, and prevent any new or expanded coal, oil or gas developments in WA including LNG and fracking. My understanding is that the emissions of CO2 from our Gorgon LNG fields have increased our state emissions by 61% since 2005 and added 8% to our national emissions. We must ABSOLUTELY NOT permit any more LNG gas fields to be developed or brought on line. The life of these fields e.g. Woodside's, will create a fossil fuel trap that will lock us into fossil fuel emissions from these fields out to as far as 2070!</p> <p>4) Hold WA's biggest polluters to account. Require companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming and renewable energy. Direct Chevron to immediately undertake the promised injection of its CO2 emissions back down to depleted oil and gas fields instead of allowing them to add further to our climate crisis.</p>
<p>Rachel Rainey</p>	<p>Below is the automated clean state message which I have read through and absolutely agree with but I also wanted to add that we have an urgent need to increase urban canopy to increase the resilience of urban areas to climate change and provide habitat, to ban fracking in 100% of the state effective immediately and to stop the to new Woodside projects from going ahead.</p>
<p>Raymond Brown</p>	<p>Based on the consensus science we must make substantial cuts in CO2 emissions very rapidly to limit global warming to 1.5C. Permanent damage has been done, we cannot continue down the current path of more and more CO2 emissions being generated by WA.</p> <p>The Browse Basin LNG project must not go ahead, it will be a substantial contributor to greenhouse pollutant emissions, at around 7MT per annum, the worst polluting LNG project so far, at a time when we are witnessing a climate crisis precipitated by CO2/Methane emissions.</p> <p>We need to have an exit plan for LNG production in WA, support of a fit for purpose price on carbon, will help this transition.</p>
<p>Rebecca Robertson</p>	<p>I have two young boys 3 & 5 years old and I worry what kind of world they will be living in as adults. I feel here in WA can and should do so much better.</p> <p>Here in WA our carbon pollution is rising out of control, but we can do so much better. Real action on climate change will deliver</p>

	<p>thousands of new jobs and opportunities as we become part of the global solution.</p>
<p>Rees Barrett</p>	<p>On behalf of my children, grandchildren and the generations to follow them I wish to comment on the WA government's climate change discussion paper.</p> <p>In particular, I support urgent climate action as a key element of the 17 Sustainable Development Goals which Australia signed up to in 2015. The SDGs provide a Framework for coordinated short and long-term planning from local to state and national community contexts. I urge the WA government to adopt the SDGs as the driver of an integrated state planning and accountability framework.</p>
<p>Richard Watson</p>	<p>Thank you for the opportunity to provide input for this critical piece of legislation.</p> <p>The science is very clear on our obligation as part of an international push to limit emissions to zero by 2030 in order to avoid catastrophic climate change, an existential threat to us. Of course local politics will set inadequate targets due to pressure from lobbyists and it is clear we will not see required leadership from our government.</p> <p>It is however important to set policy in place to support organisations and businesses who are providing leadership securing long term employment, health and well-being for western Australians.</p> <p>Here are the most important areas to provide policy leadership on:</p> <ol style="list-style-type: none"> 1) A carbon price - this is a critical component to a strong push to limit pollution. We will require around \$30-\$50 per tonne currently incrementing to around \$200 - \$500 per tonne later in the decade. Without this mechanism in place, it is too easy for a big polluter to undo achievements in other policy areas. If we are capped in emission output as a state, you are also asking other sectors to pay for the emissions of some companies and not others, which is effectively tax avoidance. 2) Remove tax rebates and funding for all high emissions projects (including oil and gas). This will allow critical industries (renewable energy, grid strengthening and smart grid tech, regenerative agriculture etc.) to compete on a level playing field and get a foot hold in a competitive commercial environment. If anything, these companies need upfront capital for research and development and asset acquisition. Any government super or investment must also be withdrawn from emissions generating projects. 3) Be honest in your media releases around the threats to our well-being. at 1.5 degrees warming, we will lose at least 70% of ningaloo reef and 25% of the fishing industry that spawns off it. Our forests

	<p>down south will be under increasing stress heat stress due to a warming climate and bushfires will be a major threat to biodiversity and thus tourism in the areas. You must be sincere in your statements and tell the truth around the science and our urgency to implement policy that will keep our next generation safe.</p> <p>4) Call out authorities for violence. I am talking about recent violence from police to members of our community who are working hard to keep us safe. Using police and other authorities for political purposes is a complete abuse of power and must be stopped in order to allow a democratic conversation around our long term future.</p> <p>5) Start talking about long term jobs and growth. There is no future for WA in oil and gas, or tight gas. Our future is in renewables (high voltage export to neighboring countries, hydrogen etc), regenerative agriculture (reliant on clean water) and tourism (retaining environmental value). If you are continuing to promote jobs in oil and gas, logging old growth forests or even some mining projects, then you are undermining long term economic stability and jobs and growth in WA for the political purpose of propping up a few jobs in dying industries while in government.</p> <p>6) Be transparent in your government and policy making. This allows people to critique and provide input to your decisions. This also means meeting leaders in our community who are mapping out a vision for Perth and WA in a low carbon future.</p> <p>I have worked at Western Power for several years in Kwinana Power station, Asset Integrity, System Management in East Perth, Commissioning, Power Quality and Protection. I have worked in a low power sustainable energy project for 6 years and am currently working in world leading zero emission flight technology down in Jandakot. I also provided input to SEN who modeled a 2020 100% renewable energy model back in 2009. I can see enormous potential WA has to transition to renewable energy, lead in regenerative agriculture and become a sustainable tourism world leader in the next decade, however the policy we make today will impact the ability of leaders in our community to make the change required to keep us safe and help as retain long term prosperity as a state.</p>
Robin Collin	<p>Please accept my submission on Climate Change We have had decades to make the required changes to ameliorate and adapt. We have not made enough effort. Government should be aware of the AMA declaration of a Climate Change Emergency. This has been followed by several Medical colleges declaration. Several Local Councils are also starting to</p>

make commitments.

I thank in this case CCWA for the opportunity to join them with some of the suggestions below.

As a medically trained specialist, I have a considerable amount of knowledge of the scientific principles to understand that we should be gravely concerned about climate change and support strong and urgent action as if on a war footing to address what is a complex social, environmental and economic problem with immense ramifications with regard to health.? These ramifications include enormous expense to government in providing services for the changes in dealing with extremes of heat - dehydration threatening death particularly of the very young and old, catastrophic bush fires resulting in risks of burns and other injuries to both fire fighters and citizens, loss of property with resultant emotional stress and increased psychiatric disorder, dealing with a higher incidence of tropical diseases to name just some. Failure to deal with emissions from fossil fuel transport has already been shown to accelerate cardiological disease in those who live close to major traffic routes.

Other expenses may include large payouts by insurance and government for damage to property as a result of bush fire and flooding (witness the payouts for flood damage for which the Queensland government is likely to have to meet soon).

Some lessons can be taken on the excellent steps that the WA government took in the 1980s to address the health implications of smoking where vested interests failed to self regulate.

As a matter of extreme urgency, I ask the WA government to commence an aggressive education policy directed at the entire community with regard to both the dangers that climate change pose and the opportunities for better health and living standards provided by accepting the science and adopting the recommendations of the WHO 2015 with regard to emissions as well as heeding the call for announcing a Climate Change Health Emergency.

I therefore also support the CCWAs call for a comprehensive state-wide policy on climate change that includes the following at a minimum:

Rosaleen O'Neill	Although these are pre-done comments, they could not be better put of the concerns by the people of Western Australia and myself and my family.
Rosalie Miles	<p>I am appalled that 1/3 of WA's total climate pollution comes from Chevron & Woodside and that if the proposed projects go ahead that this will rise to 47% of the contributions being from LNG gas companies. These companies do not pay anything for their pollution, they make HUGE profits and pay minimise tax. If a Liberal Government permitted this, I would understand but you are a Labor Government - you are meant to be for the people!</p> <p>By trying to appease big business and their lobbyists, you are failing to understand the mood of the people and will ultimately lose the support of the electorate. PLEASE show leadership and demonstrate that you care about future generations.</p> <p>7) Recognise that by not addressing climate change immediately, state budgets particularly health and emergency services will continue to be compromised. Work with Doctors for the Environment to convince the sceptics that addressing climate change is the only solution short, medium and long-term.</p> <p>8) Involve academics, particularly economists (in conjunction with the experts above) to craft publicity campaigns for those who don't understand that tackling climate change and not giving a free ride to the polluters makes sound economic sense..</p>
Rosemary Blemings	Four DECADES AGO WE LIVED IN WA, IN MEEKATHARRA. It was an exciting time for us as a young family. WA was an exciting and deservedly DIFFERENT STATE then and still is. MINING was VITAL TO WA but now it's time to move away from the FOSSIL FUEL COMPONENTS OF THE EXTRACTIVE INDUSTRIES AND SHOW THE WORLD AND THE LAGGARD Federal Government the true potential of RENEWABLE ENERGY.
Rry Robinson	There is much we can learn from Aboriginal people on safer and more productive ways to manage the land.
Ruth Adshead	And that would be all of us in WA, Australia, and the world. Whilst the following has been composed as suggestion, it follows closely my feelings on the subject; I would appreciate the topic being regarded with due concern. I feel deeply about it and so do many others. Australia has so much to offer in the way of clean

	<p>technology - we should immediately cease all fossil fuel mining and development</p>
<p>Sally Wylie</p>	<p>Submission on the States ‘aspirational’ target of net-zero carbon pollution for WA. I fully support this target as it means we will be pulling our weight regarding the issue of climate change. The state could also benefit from new jobs and business opportunities across our state.</p> <p>My first concern is that the document downplays the ‘natural’ environment and puts too much emphasis on ‘the economy’ and the human created environment. We need to restore balance to our natural world – why do you think we are in this mess? More emphasis needs to be placed on “the Climate Emergency” which threatens all of us. The causes of climate change and what actions we, collectively and individually need to take, need to be emphasized.</p> <p>I support the expansion of WA’s production of renewable energy. However I strongly believe that ‘natural’ gas does not have any place as a fuel in this climate emergency. ‘Natural’ gas is largely methane, it is a fossil fuel which is itself a greenhouse gas . While the actual burning of it might produce somewhat lower carbon dioxide per unit of energy used than burning coal, methane escaping during its production, transport and use are greater than these reductions. As well, locking in large, expensive ‘natural’ gas projects for many years into the future will reduce the capacity and the finance available to develop genuine renewable energy. The government’s aim should be to reduce all greenhouse gas emissions as rapidly as possible.</p> <p>Fracking is not mentioned in the Report. Fracking has a number of environmental problems and is used to obtain fossil-fuels which contribute significantly to global warming. Government understanding of this process needs to be reviewed. There is huge public opposition as well.</p> <p>A glaring omission in this report is land clearing, particularly, deforestation. The logging of native forests and the impacts of prescribed burning, have major environmental consequences including influencing our climate both locally and more widely. The importance of a treed landscape in benefiting a more benign climate has been preached by scientists for decades</p> <p>Land use changes are one of the major causes of greenhouse gas</p>

	<p>emissions yet this is not mentioned in the section “Protecting biodiversity”. Related to land clearing are agricultural practices and food production generally. The implications and benefits of regenerative agriculture (as well as organic agriculture) should be included as well as the importance of local food production.</p> <p>I am pleased that the government is focusing on the issue of climate change but it needs to be more honest in looking closely for the causes, accepting that many will affect some people's bottom line, but remaining committed by setting out to educate the public as to why these actions are desirable and necessary. Take the public with you and become a world leader.</p> <p>If you've read the latest report on climate change in the Guardian this week it's imperative our state makes meaningful commitments to this problem.</p>
Sam Newman	<ol style="list-style-type: none"> 1) Legislate to interim targets and an emissions reduction pathway that gets us there very fast. 2) Deliver a Clean State program to construct these renewable energy production machines and use them etc. Do this whilst minimising the work required also a consider clean industries and support a just transition for affected workers and communities. 4) Hold WA’s biggest polluters to account, Require companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, renewable energy or pay tax. 5) Listen to aboriginal tribes suggestions.
Shane Drew	<ol style="list-style-type: none"> 7) Reduce all fixed supply fees on utility suppliers to improve customer efficient usage and therefore improve the states competitiveness in the market place. Including on Water, Power and Gas supplies
Shapelle McNee	<p>I support strong and urgent action on Climate Change. I consider it as a matter of highest priority. I am sending this email to indicate that I care and support any positive actions taken by the WA government to address Climate Change. Namely in regard to carbon pollution. I feel embarrassed that this has not even been considered as a priority until now. The following has been suggested as a pathway towards a solution.</p> <ol style="list-style-type: none"> 1) To reduce WA’s carbon pollution and achieve zero net emissions as soon as possible. Legislate to deliver science-based interim targets and an emissions reduction pathway in line with a fair and equitable contribution to limiting global warming to 1.5 degrees.

<p>Sharon Ramel</p>	<p>Thank you granting the people the opportunity to comment on the WA government's climate change discussion paper. It is after all a democracy voted for by the people. Too often we see our Governments in collusion with big polluters because they effectively own both major parties via donation. Like many I am deeply concerned about climate change and support strong and urgent action as a matter of highest priority for all levels of government?</p> <p>The mining companies have gotten away with murder here in this Country. They do not pay enough in Royalties (unlike most countries) and too often they leave behind a mess. Here in WA our carbon pollution is rising out of control, largely due to the Chevron LNG operations. However I believe we can do so much better. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.</p> <p>I call for a comprehensive state-wide policy (ie all areas must be included unlike the bizarre facking which is dangerous and destroys water) on climate change that includes the following at a minimum:</p> <p>5) Our country is crying out for help - just look around. Degredation everywhere.</p> <p>7) Insist that farmers turn to regenerative principles away from the toxic poisonous legacy they are 'gifting the future with their industrial methods of farming). We are farmers - we look at the dying land everywhere around us from toxic poisonous farming practices</p>
<p>Shelley Gillespie</p>	<p>To whom it may concern,</p> <p>This is obviously a pre composed email, but I want you to know that I heartily agree with the content and couldn't improve upon it, which is why I am sending it.</p> <p>It would wonderful if we could show the rest of Australia what can - and must - be done!</p>
<p>Simon Kilbane</p>	<p>I consider the potential to live in a state with the foresite to achieve carbon neutrality or even positivity an incredible advantage environmentally, ethically and economically.</p>
<p>Stephanie Faulkner</p>	<p>With great concern, I note the publication today of a comparison between all states and territories on their preparedness to supply clean energy. Western Australia lags far behind all states and territories other than the Northern Territory and, at the rate of implementation of clean energy, has no practical means of achieving its 2050 target, yet our state is seriously affected by climate change already and faces a very uncertain future,</p>

	<p>particularly as regards agriculture. Our dependence on mining and processing primary resources such as gas means that we are also structurally unprepared for the economic impacts that climate change will impose on our labour force. What emerging industries are we fostering that will provide a carbon neutral place of work and fund the taxation base necessary to maintain services in Western Australia. We are running out of time while our state and federal governments twiddle their thumbs and fail to even draw up a plan, let alone implement it.</p> <p>Time is running out for us and future generations.</p>
Stephen Yuen	<p>I understand that there is no way for an immediate cessation of emissions - the WA economy is linked to future oil and gas development. However I think there needs to be a multi-partisan approach including citizens' involvement to plan for a transition away from fossil fuels towards renewals.</p> <p>Immediately this discussion can commence as well as others such as offset, offset, offset! Stop clearing the land and cutting down forests! Implement the many ways suggested by experts to offset emissions. Create jobs!</p>
Steve La Puma	<p>Firstly, I'd like to say that I am a Rigger in the petroleum industry worker and have been for 30 years.. However I care for the environment and want authorities in charge (Government) to implement tough regulation against polluters (no matter how much they are contributing to the economy!)</p> <p>It can always be done better in a sustainable way.</p> <p>I strongly believe there is no room in WA or Australia for Fracking and nuclear energy.</p> <p>And to balance the equation and support renewable energy for a change like you have done for the fossil industry, increase incentives for this new and sustainable industry.. This is where growth of jobs and revenue should and can come from.</p>
Steven van der Togt	<p>PS I have many ideas, small but consider if everyone turns off the lights their not using how much it would save.</p> <p>I would very much like to talk to people in government about these ideas.</p>
Stewart Godden	<p>The first rule when you find yourself in any hole is - stop digging! In this case that means stop emitting carbon from fossil fuels ASAP.</p>

Sue Kalab	<p>To whom it may concern,</p> <p>I fully endorse your endeavours to reduce Climate Change and carbon pollution, recycling, conservation of our natural world and all things related. I am no scientist, just an ordinary woman who has lived long enough to know fully that drastic action is needed at this stage in our evolution. We must do everything possible to bring about change. Leadership and political will is essential to persuade the big polluters and those who follow them that we must mend our ways.</p>
Susan Boyd	<p>1. Prevent developments on the Burrup Peninsular in particular, which cause emissions which can damage the utterly invaluable rock art</p>
Susan Flavell	<p>Please do something NOW about climate change and moving to clean energy.</p>
Talia Ward	<p>The "clean" energy path is clearly the only viable and rational environmental and economic solution if there is to be a future for everyone. Urgent and speedy, Transitioning to electric vehicles including support with rolling out of recharging stations statewide, linking with other states and territories, importing and manufacturing opportunities and job transition training are essential. Government must take the lead role and now. No more beating around the bush. We want action, NOW.</p>
Tom Long	<p>I am extremely concerned about climate change and I see the need for urgent action by all levels of government? We need to control the rising carbon pollution here in WA. Real action will deliver thousands of new jobs and opportunities as we join in to the global solution.</p> <p>I would love to see WA become a leader of this change, instead of a follower as usual. I believe WA needs a comprehensive state-wide policy on climate change including the following:</p> <p>4) WA's biggest polluters must be accountable. Emission reductions and Offsets must be required and punishments ENFORCED on businesses.</p> <p>5) Stop forest clearing, transition away from logging of native forests.</p>

	6) Support climate adaptation programs and partnerships with farmers, governments, and businesses and communities.
Tom Wilson	<p>As a Halls Head resident for nine years and having attended the climate strike in Forrest Place, Perth, on 20 September</p> <p>3) I put solar water heating and 24 PV panels on my roof two years ago so I know from experience how beneficial renewables are for myself and our state in general.</p> <p>As a father and grandfather I want WA's environment to thrive so the next generations can enjoy it as previous ones have.</p> <p>I thank you in advance for considering this submission and for your enlightened stance on this vital issue.</p>
Tony Clark	4) Hold WA's biggest polluters to account. Require companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming and renewable energy. This must be done, especially in regards to Natural gas and Fertiliser industries
Tricia Edwards	We are counting on your government to stand out from the crowd and make a big difference!!
Valerie Hemsley	I am very worried about the world my 14-year-old grandson will inherit.
Vanessa Smith	<p>2) Deliver a Clean State Jobs program to create thousands of new jobs in clean industries and support a just transition for affected workers and communities.</p> <p>3) Permanently protect natural carbon stores?in WA's forests and other ecosystems, and rapidly transition away from native forest logging and clearing. Develop an extensive tree planting program for the next 20 years, particularly in degraded areas like the Wheatbelt. Protect the existing bushland and trees in the metropolitan area so we have a livable city, prohibit any more clearing of urban bushland. Any clearing of trees needs to have double the amount planted (no more sham offsets).</p> <p>4) Require the biggest polluting companies to reduce emissions and offset their climate damage by investing a portion of profits in clean industries, carbon farming, tree planting and renewable energy.</p> <p>5) Develop 100% renewable energy, phase out fossil fuels, and prevent any new or expanded coal, oil or gas developments in WA including LNG and fracking.</p>

<p>Verena Homberger</p>	<p>We can see and hear daily that climate change is real, and there is now an urgent need to address the crisis. We need strong and urgent action as a matter of highest priority for all levels of government?</p> <p>Unfortunately, and to WA's shame, here in our state carbon pollution is rising out of control, when we could do so much better. Real action on climate change will deliver thousands of new jobs and opportunities as we become part of the global solution.</p> <p>I therefore call for a comprehensive state-wide policy on climate change that includes the following, important points:</p> <p>5) We need MORE trees, not less!</p>
<p>Vicky Kerfoot</p>	<p>In addition to the points outlined below PLEASE consider the damage BAUXITE mining is doing to the Northern Jarrah Forest. Unique Mediterranean hard wood forest. North Myara should be left alone - a legacy for future generations within one hour of the growing population of Perth.</p>
<p>Wendy Stewart</p>	<p>We need to take urgent measures now..1. Compulsory rainwater tanks or similar catchments on all building. 2. Recycling all grey water.. 3.Stop housing developments by large developers which sees all All native trees & bush removed. 4. No more freeways more railway transport introduced everywhere possible for all commercial & industrial transport & for public transportation to out lying towns 5. Free public transport or @ reduced rates.6. No fees for parking @ railway stations. 7. Introduce high Taxes & registration on all heavy large 4X4's.. take them off the roads. 8. Incentives to purchase hybrid electric vehicles.</p>
<p>Zavier Potter</p>	<p>I'd like to see coal and oil mining stopping in Western Australia. I'd like to see lots of solar farms, including big ones owned by the government.</p> <p>I'd like to see more electric cars, and reduce the amount of petrol cars because their fumes are bad for the environment.</p> <p>Please retrain people who worked in the coal industry into jobs in the electric industry.</p> <p>I'm 8 years old and I want to not use fossil fuels when I'm older.</p>