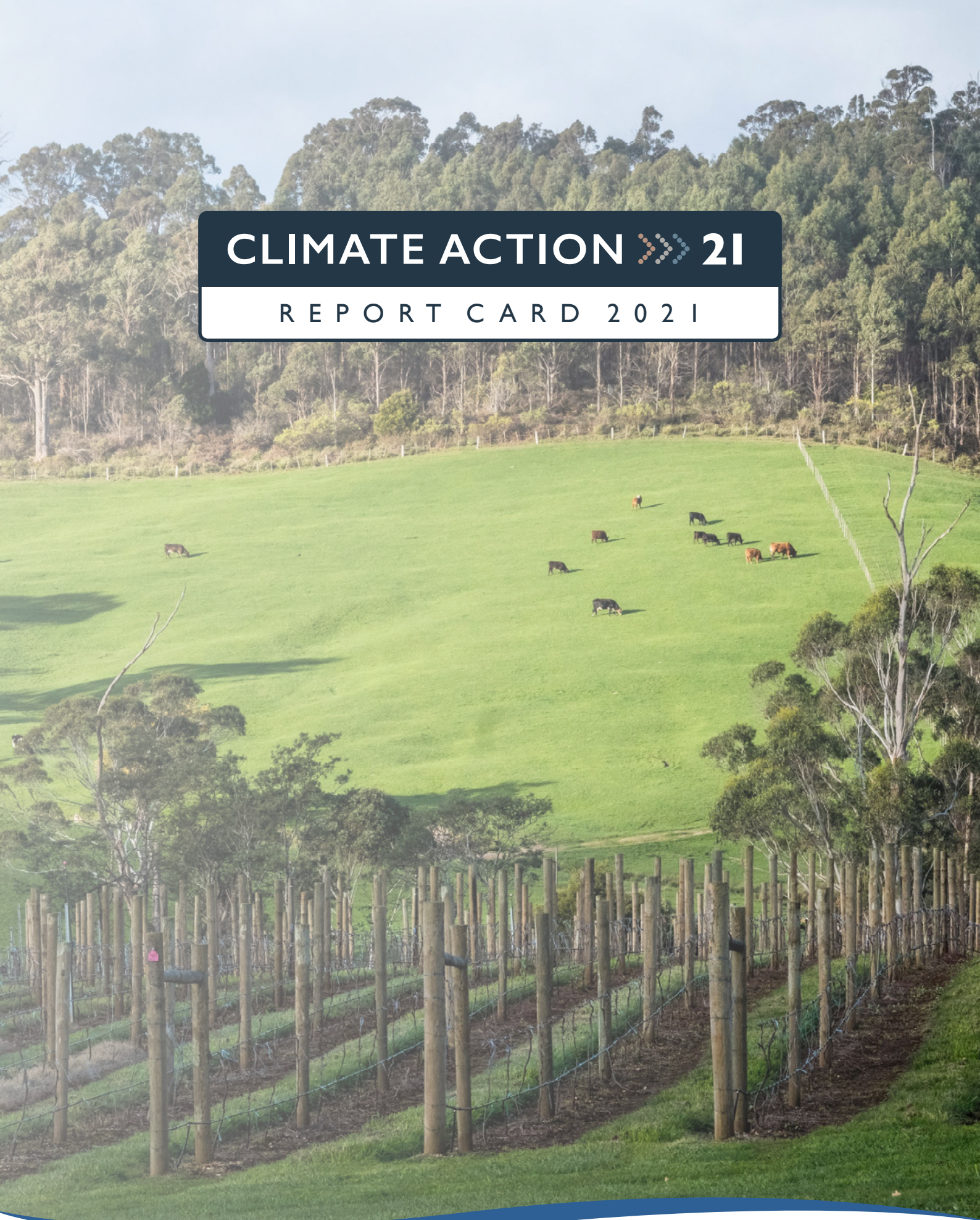
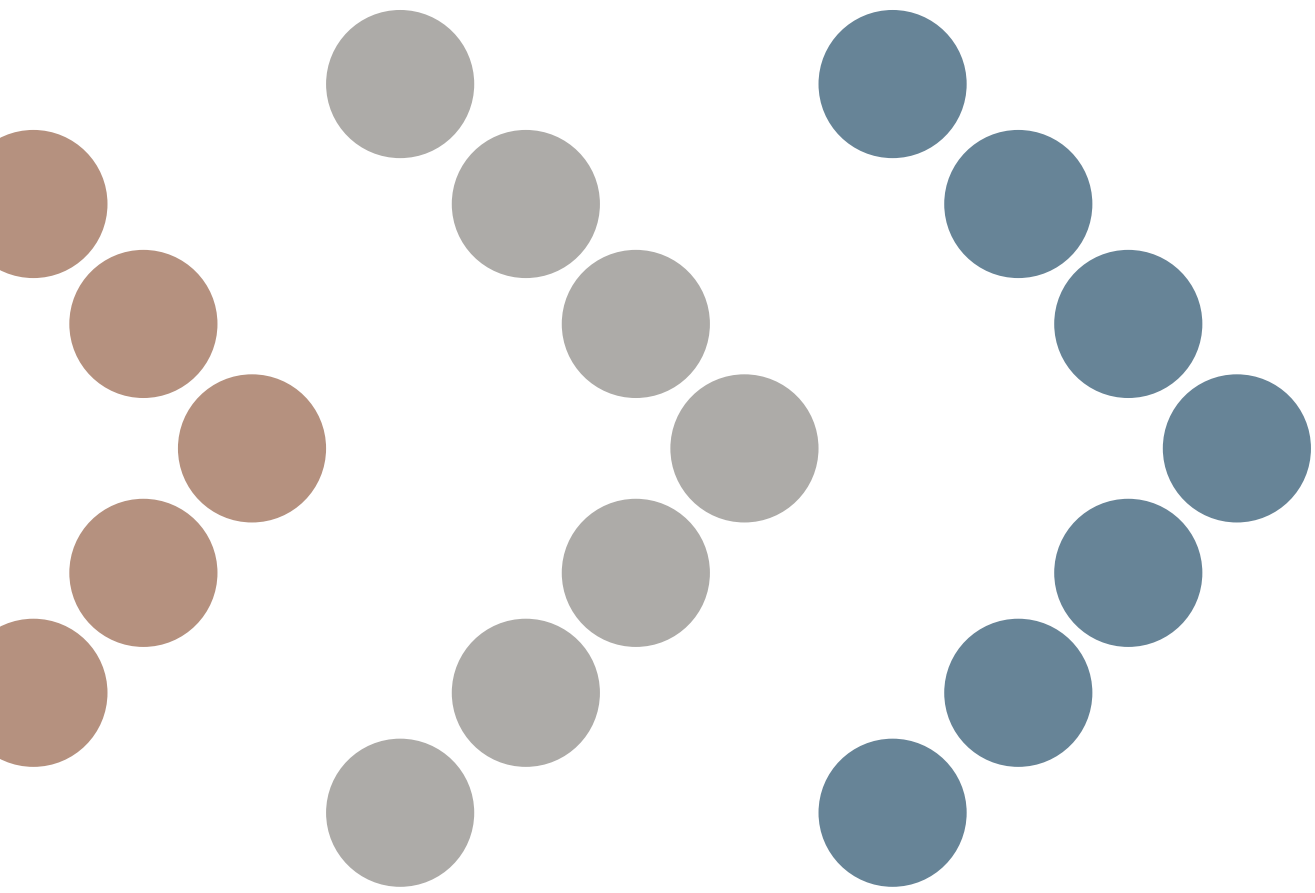


CLIMATE ACTION 21

REPORT CARD 2021





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In recognition of the deep history and culture of this Island, we acknowledge the Tasmanian Aboriginal people as the traditional and original owners, and ongoing custodians of lutruwita/ Tasmania and pay respect to their elders past, present and emerging.



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A NOTE FROM THE MINISTER



**THE HON PETER
GUTWEIN MP**
Premier
Minister for Climate Change

2021 marks the conclusion of Tasmania's climate change action plan, Climate Action 21. It also marks the beginning of my second term as both Premier and Minister for Climate Change.

I am proud to lead a Government that is committed to taking action on climate change. Tasmania was the first Australian jurisdiction to achieve net zero greenhouse gas emissions, and we have maintained that achievement for the past five years. Our emissions have declined by 108.6 per cent since 1990 levels, and we have the lowest per capita emissions in the country and some of the lowest in the world.

While the past year has been one of significant upheaval as we continue to respond to the ongoing COVID-19 pandemic, the need to also respond to the challenges and opportunities of climate change remains as important as ever.

This is the fourth and final Report Card on the progress of the 37 actions in Climate Action 21. Through Climate Action 21 we have delivered significant achievements, including:

- investing over \$600,000 to deliver a statewide electric vehicle destination and fast charging network;
- supported sixteen priority research projects leveraging a total research investment of \$1.4 million;
- Twelve workshops around the State to support over 130 financial counsellors to better assist vulnerable clients to manage their energy use and power bills;
- supported government and heavy vehicle fleets to improve fleet efficiency and prepare for electric vehicle uptake;
- implemented a whole-of-government energy and greenhouse gas emissions monitoring software system;
- conducted energy efficiency audits for 28 Tasmanian small- and medium-sized businesses through the Power\$mart Businesses program;
- held three Tasmanian Climate Symposiums, bringing together representatives from business, government and the scientific community;
- supported 11 businesses to improve productivity and resource efficiency through the Business Resource Efficiency Program; and
- provided nearly \$200,000 to partner with organisations on local climate change initiatives,

including two Tasmanian Youth Climate Leaders Conferences; the Curious Climate Tasmania project; an autonomous electric bus trial; electric vehicle 'try and drive' events; e-bike expos; Food and Waste Solution Hub event; Regenerative Agriculture Network of Tasmania Conference; Climate Justice Conference; and the Australasian Coasts and Ports Conference.

In addition, recent climate change commitments made by my Government include a commitment to transition the Government fleet to electric vehicles by 2030; measures to support the uptake of electric vehicles, including a two-year stamp duty waiver and more charging infrastructure; a new \$30 million Tasmanian Energy Efficiency Loan Scheme for households; and initiatives to support industries to reduce emissions, including supporting the tourism industry's goal to become a Carbon Neutral Destination by 2025.

As I committed early last year, the review of Tasmania's climate change legislation and target is currently underway, and we are developing Tasmania's next whole-of-government climate change action plan. This included significant consultation with industry, businesses, government and the community in early 2021, and I would like to thank everyone who took part.

The next action plan will build on the themes of Climate Action 21, focusing on information and knowledge; transition and innovation; and adaptation and resilience, and will be released in coming months.



Photo: Chris Crerar

INTRODUCTION

In 2017, the Tasmanian Government released *Climate Action 21: Tasmania's Climate Change Action Plan 2017-2021* (Climate Action 21) and the *Climate Action 21 Implementation Plan*. Climate Action 21 concluded in June 2021.

Climate Action 21 set the Tasmanian Government's agenda for action on climate change, including reducing emissions, preparing for and responding to the impacts of a changing climate, and supporting the transition to a low carbon economy.

The Department of Premier and Cabinet's Tasmanian Climate Change Office (TCCO) coordinated the implementation of Climate Action 21 and reported on progress.

TCCO has implemented Climate Action 21 in collaboration with all levels of government, business and industry, the scientific community, peak organisations and the broader Tasmanian community. This includes seeking the views of others to inform the scope and delivery of programs and projects.

Each year, TCCO reports on the implementation of Climate Action 21. This is the fourth and final report card, which shows progress made from July 2020 to June 2021.

Development of Tasmania's next whole-of-government climate change action plan is underway.

KEY ACHIEVEMENTS



ELECTRIC VEHICLE WORKING GROUP



SMARTER FLEETS PROGRAM

Supported Tasmanian Government, local government and heavy vehicle fleets to improve fleet efficiency and prepare for electric vehicle uptake.



CHARGESMART GRANTS PROGRAM

Investment of over \$600,000 to support a statewide electric vehicle destination and fast-charging network.



TRANSITIONING GOVERNMENT VEHICLE FLEETS TO 100 PER CENT ELECTRIC VEHICLES BY 2030



COMMUNITY 'TRY AND DRIVE AN EV' DAYS



BUSINESS RESOURCE EFFICIENCY PROGRAM

Supported 11 Tasmanian businesses to reduce waste.



POWER\$MART BUSINESSES PROGRAM

Supported 21 businesses to undertake energy efficiency audits and reduce energy use.



48 BUSINESSES COMPLETED CONTINUITY PLANNING TO PREPARE FOR AND RESPOND TO EXTREME EVENTS



CLIMATE CHANGE RESEARCH

- \$750,000 in grant funding for 16 priority climate research projects;
- undertook priority research on compound extreme events;
- updated enterprise suitability mapping for key crops to support agricultural decision making.



CLIMATE RESILIENT COUNCILS

Supported 17 councils to understand and improve how climate change is considered by their council when making strategic and financial decisions.



TASMANIAN CLIMATE SYMPOSIUM

Held three annual Symposiums in 2018, 2019 and 2020.



CLIMATE CHANGE AND HEALTH ROUNDTABLE



COASTAL HAZARDS MANAGEMENT FOR EXISTING SETTLEMENTS AND VALUES PROJECT



12 STATEWIDE WORKSHOPS FOR FINANCIAL COUNSELLORS TO BETTER ASSIST VULNERABLE CLIENTS TO MANAGE THEIR ENERGY USE AND POWER BILLS



AN ADDITIONAL 339 HA OF LAND NOW IRRIGATED WITH EFFLUENT UNDER FERT\$MART



CONDUCTING ENERGY AUDITS OF GOVERNMENT BUILDINGS



PROVIDED NEARLY \$200,000 TO PARTNER WITH ORGANISATIONS ON LOCAL CLIMATE CHANGE INITIATIVES

Including:

- Curious Climate Tasmania;
- Food and Waste Solution Hub event;
- Tasmanian Youth Climate Leaders Conferences;
- Climate Justice Conference; and
- autonomous electric bus trial.



ENERGY EFFICIENCY AUDITS OF NINE AGED CARE FACILITIES AND A RANGE OF RESOURCES DEVELOPED TO SUPPORT THE AGED CARE SECTOR TO PREPARE FOR, AND RESPOND TO, EXTREME HEAT EVENTS

More information on the Tasmanian Government's implementation of Climate Action 21 is available at: www.climatechange.tas.gov.au.

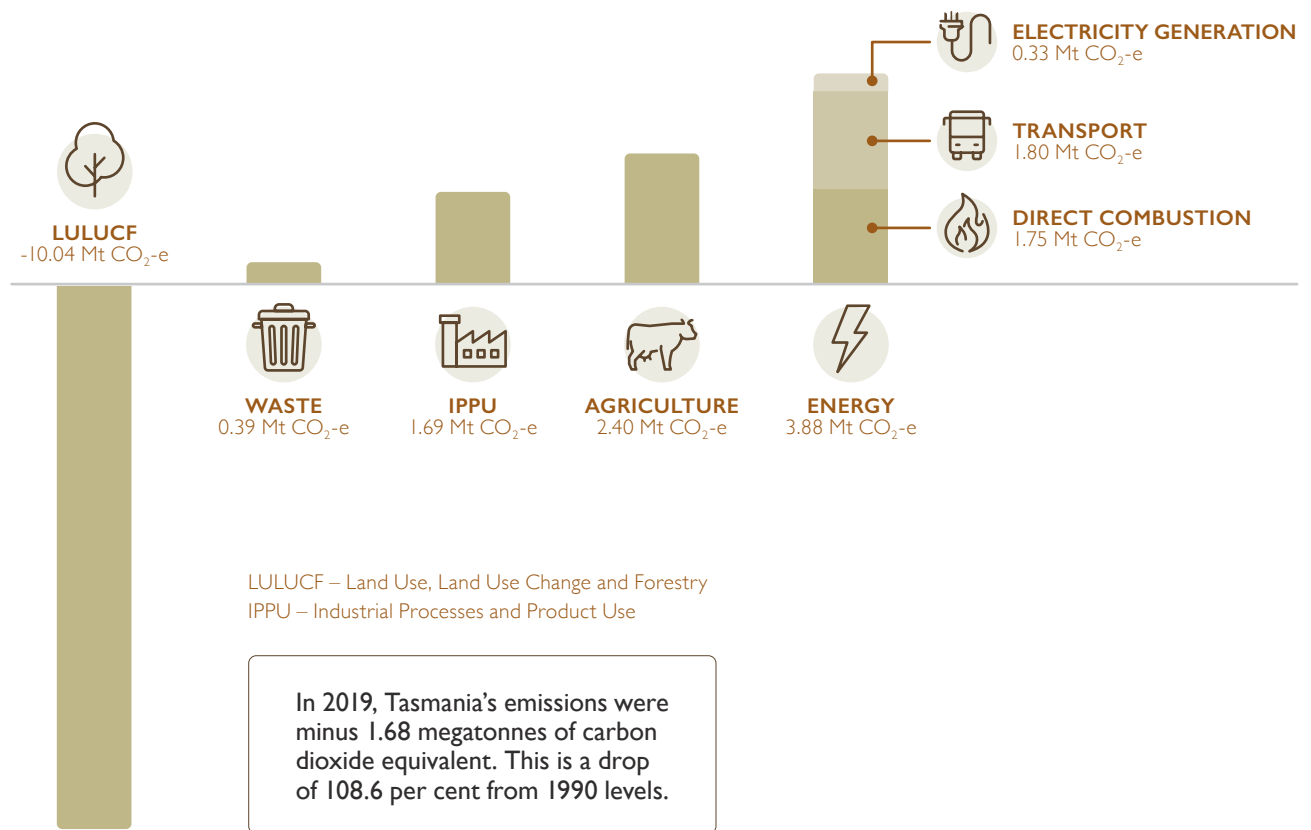
TASMANIA'S GREENHOUSE GAS EMISSIONS

Each year, the Australian Government releases its annual State and Territory Greenhouse Gas Inventories. The latest figures, for the 2019 reporting period, were released in April 2021.

Tasmania's net emissions in 2019 were minus 1.68 megatonnes (Mt) of carbon dioxide equivalent (CO₂-e), which is a decrease of 108.6 per cent from the 1990 baseline level.

Tasmania has achieved its policy target of net zero emissions by 2050 for the past five years.

Tasmania has the lowest net emissions, and the lowest emissions per person, of all other Australian states and territories.



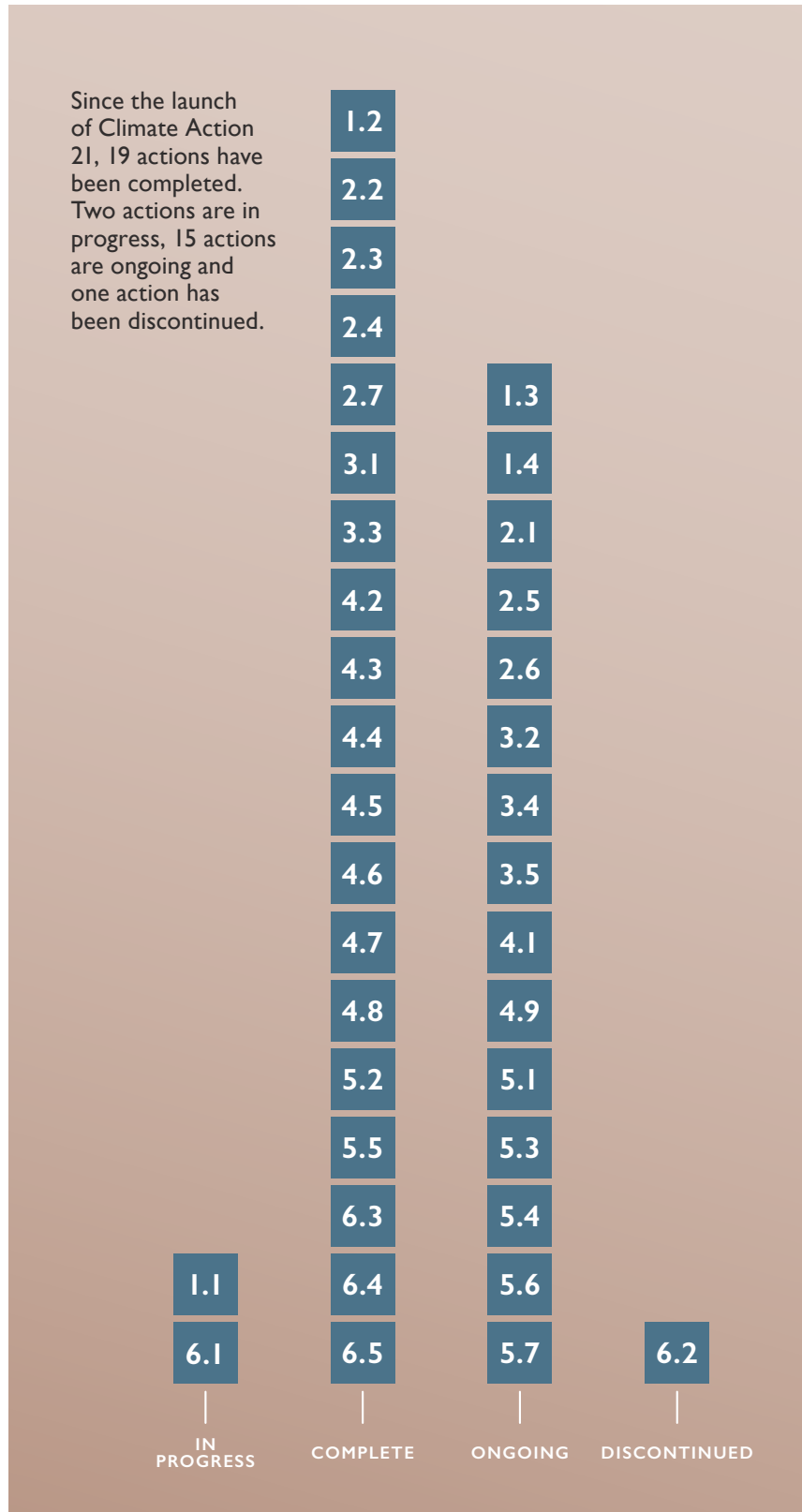
IMPLEMENTATION PROGRESS

Summary of progress against Climate Action 21 – 2021

Climate Action 21 has 37 actions across six priority areas. The purpose of this Report Card is to show progress against each of the actions contained in Climate Action 21. The status of each action is shown as: In progress, Nearing completion, Complete, Ongoing or Discontinued.



Since the launch of Climate Action 21, 19 actions have been completed. Two actions are in progress, 15 actions are ongoing and one action has been discontinued.









UNDERSTANDING TASMANIA'S FUTURE CLIMATE



This priority area aims to provide up-to-date information on climate change projections and impacts, and tailor this information to support decision making across key industry sectors.


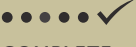
Action	Responsibility	Commentary	Status
1.1 Review climate change models, identify research gaps and opportunities, and determine priority research projects to update Tasmania's climate science	DPAC (TCCO)	<p>We are continuing to improve our understanding of Tasmania's future climate by undertaking priority research projects, including enterprise suitability mapping; climate change and health; natural hazards impacts; climate change and health; and natural hazards impacts.</p> <p>The 2020 Tasmanian Government's \$750,000 Climate Research Grants Program offered grants of up to \$50,000 for climate research projects and/or the development of decision support tools that address the priority areas of research need in Tasmania. Funding is being provided for 16 projects, including: analyse biosecurity and invasive pests; understand the risks of the changing climate on key industry sectors; and examine the health and wellbeing impacts of climate change. Most projects should be completed by late 2021.</p>	 IN PROGRESS
1.2 Undertake research to build our understanding of Tasmania's vulnerability to coincident extreme events and their impacts	DPAC (TCCO)	<p>The Compound Extreme Events in Tasmania research project aimed to improve understanding of compound extreme event types and how the frequency and intensity of these events may change in the future as a result of climate change. A workshop was held with key stakeholders to discuss the results and the report.</p>	 COMPLETE


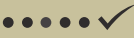


Action	Responsibility	Commentary	Status
<p>1.3 Provide sector-specific information on Tasmania's future climate through tailored climate information and decision support tools for end users</p>	DPAC (TCCO)	<p>TCCO, in partnership with Hydro Tasmania and CSIRO, has now held three Tasmanian Climate Symposiums. The annual Symposium brings together key decision makers from government and industry, and Tasmanian researchers, to network, share learnings and work collaboratively to translate climate research into better policy and practice.</p> <p>The theme from the third Symposium, held in October 2020, was how businesses are managing climate variability, and preparing for and adapting to change, and the world-class Tasmanian research exploring the impacts, variability and change.</p> <p>Representatives from the government, financial accounting, agriculture, climate science, and marine sectors gave presentations on the impacts, risks and opportunities of climate change.</p>	 ONGOING
<p>1.4 Support an ongoing commitment to the National Climate Science Centre in Hobart</p>	DPAC (TCCO)	<p>The Tasmanian Government continues to advocate for the maintenance of a strong scientific research capability in Tasmania, particularly through the CSIRO Climate Science Centre. The Centre works in national partnership with the Bureau of Meteorology, the Australian Antarctic Division, and the university sector.</p> <p>Tasmania's other world-class science bodies include the Institute for Marine and Antarctic Studies; the University of Tasmania's Geography and Spatial Sciences; the Centre for Marine Socioecology; and the Australian Centre for Excellence in Antarctic Science.</p>	 ONGOING

2 ADVANCING OUR RENEWABLE ENERGY CAPABILITY



This priority area aims to advance our renewable energy capability by supporting national energy security solutions in the transition to a low carbon generation network and continuing to work with Tasmanian Government agencies, local government and business to improve energy efficiency.

Action	Responsibility	Commentary	Status
<p>2.1 Promote Tasmanian and National emissions reduction and energy security by continuing to invest in hydro-electricity assets, considering the findings of relevant studies to further Tasmania's renewable electricity generation, progressing opportunities for further renewable energy development, and advocating for Tasmania to play a significant role in national energy security</p>	State Growth	<p>In December 2020, the Tasmanian Government released the Tasmanian Renewable Energy Action Plan 2020.</p> <p>The Plan is a key element of the Government's policy to further expand renewable energy and aims to double Tasmania's renewable energy generation, with a target of 200 per cent of our current needs by 2040.</p> <p>In November 2020, the Government announced that Tasmania is now 100 per cent self-sufficient in renewable electricity generation. This is ahead of the target date scheduled for 2022.</p> <p>In December 2020, the Tasmanian and Australian Governments signed an Energy and Emissions Reduction Agreement that committed the governments to work closely to deliver the Marinus Link and Battery of the Nation projects.</p>	 ONGOING
<p>2.2 Provide resources and guidance materials to support businesses and households to access the Tasmanian Energy Efficiency Loan Scheme or other finance options</p>	DPAC (TCCO)	<p>The \$40 million Tasmanian Energy Efficiency Loan Scheme (TEELS) closed in April 2019.</p> <p>TCCO provides information on the practical actions households and businesses can take to improve energy efficiency.</p>	 COMPLETE

Action	Responsibility	Commentary	Status
2.3 Work with businesses to maximise energy efficiency and identify energy savings projects eligible for application to the Tasmanian Energy Efficiency Loan Scheme or other finance options	DPAC (TCCO)	<p>The Power\$mart Businesses program offered funding to eligible Tasmanian businesses for energy efficiency audits, and provided an audit report detailing practical information about ways to improve energy efficiency. Improved energy efficiency can help lower power bills, protect against future energy price rises, and reduce greenhouse gas emissions.</p> <p>Power\$mart Businesses has delivered 28 energy efficiency audits.</p>	 COMPLETE
2.4 Determine the suitability of Environmental Upgrade Agreements and other financing options to support energy upgrades in Tasmania's non-residential building stock	DPAC (TCCO)	<p>An Environmental Upgrade Agreements (EUAs) feasibility study has been completed. EUAs are financial arrangements that provide low-cost long-term loans to building owners to improve energy efficiency.</p> <p>The Final Report indicated that EUAs do not currently present a viable option for Tasmania. This conclusion was informed by the views of local stakeholders, the level of success of similar schemes in place in other Australian jurisdictions, and the number of upgrade projects that would be required for a Tasmanian EUA scheme to be economically viable.</p>	 COMPLETE
2.5 Work with local government and service providers to support the delivery of energy efficient street lighting and smart controls projects	DPAC (TCCO)	<p>The Tasmanian Government participated in a workshop with local government and TasNetworks to discuss the barriers to the rollout of high efficiency street lighting technologies and smart control systems.</p> <p>Work continues to provide efficient and cost effective solutions to increase the numbers of high efficiency street lights.</p>	 ONGOING
2.6 Support Tasmanian Government agencies to monitor and report energy usage and greenhouse gas emissions	DPAC (TCCO)	<p>Implementation of a whole-of-government energy use and emissions monitoring and reporting software platform is complete.</p> <p>Relevant agency staff have been trained to use the software and TCCO provides ongoing support to agencies to maintain and update energy accounts data and information.</p>	 ONGOING

Action	Responsibility	Commentary	Status
<p>2.7 Improve the energy efficiency of Tasmanian Government owned and leased buildings through energy audits, cost-effective capital upgrades and a behaviour change program</p>	<p>DPAC (TCCO)</p>	<p>Energy audits have been conducted at agency sites including:</p> <ul style="list-style-type: none"> – the New Town and Mt Pleasant laboratories for DPIPWWE; – the Tasmania Fire Service head office for DPFEM; – Huonville and Cygnet Community Health Centres; Millbrook Rise Rehabilitation Centre; Tolosa Street Adult Mental Health Service Centre; and the Tasmanian Ambulance Centre for DoH; and – New Town, Ogilvie and Deloraine High Schools; Mountain Heights School in Queenstown; and Don College in Devonport for DoE. 	<p>●●●●●✓ COMPLETE</p>





Photo: Chris Crerar





REDUCING OUR TRANSPORT EMISSIONS



This priority area aims to reduce transport emissions by promoting the uptake of electric vehicles and alternative forms of transport, and optimising the use of existing vehicles.

Action	Responsibility	Commentary	Status
3.1 Assess potential approaches for a market-led statewide rollout of electric vehicle charging infrastructure and work with local government, businesses and industry to improve charging network infrastructure in Tasmania	DPAC (TCCO)	<p>The Electric Vehicle ChargeSmart Grants Program has provided over \$600,000 in grant funding to expand the rollout of a statewide electric vehicle charging network for local users and visitors.</p> <p>The charging infrastructure supported through the Grants Program includes 14 fast charging stations at strategic locations across the State. This includes the installation of four ultra-fast 350kW charging stations capable of charging the next generation of electric vehicles in less than 10 minutes. The Grants Program has also supported the installation of 23 destination charging stations at councils, businesses and visitor destinations.</p> <p>With the inclusion of contributions by recipients, ChargeSmart will stimulate a total spend of over \$2.5 million to install electric vehicle fast charging infrastructure across the State.</p>	<p>●●●●● ✓ COMPLETE</p>

Action	Responsibility	Commentary	Status
<p>3.2 Establish an electric vehicle working group to identify barriers, issues and opportunities, and provide advice to the Tasmanian Government on the development of a coordinated approach to support the uptake of electric vehicles in Tasmania</p>	<p>DPAC (TCCO)</p>	<p>The Tasmanian Government Electric Vehicle Working Group was established in October 2017. The Working Group continues to bring together key partners to develop a coordinated approach to support the uptake of electric vehicles in Tasmania. The Working Group is also identifying and progressing priority areas of action to support electric vehicle uptake; and identifying and exploring barriers to electric vehicle uptake.</p> <p>The Working Group was nationally recognised in 2019, winning the inaugural Kennedy Award at the Prime Minister's Awards for Excellence in Public Sector Management.</p> <p>The Tasmanian Government has supported a variety of events to increase community awareness of electric vehicles. For example, the Government has sponsored two community electric vehicle 'try and drive' events, two Electric Bike Expos and a driverless electric bus demonstration.</p>	<p> ONGOING</p>
<p>3.3 Extend the Smarter Fleets program to improve the efficiency of heavy vehicle fleets and additional light vehicle fleets</p>	<p>DPAC (TCCO)</p>	<p>The Tasmanian Government's Smarter Fleets Program aimed to reduce vehicle fleet greenhouse gas emissions and fuel costs by providing tailored guidance and support to fleet managers.</p> <p>The Smarter Fleets Program - Heavy Vehicles supported six heavy vehicle fleets in Tasmania to improve efficiency, reduce fuel expenditure and carbon emissions and to consider alternative technology, including hydrogen and electric vehicles.</p> <p>The Smarter Fleets Program - Electric Vehicles in Local Government supported nine Tasmanian councils to prepare to introduce electric vehicles into their fleets. The Program included an analysis of the existing fleet to calculate the environmental benefit and cost reductions that electric vehicles can offer.</p>	<p> COMPLETE</p>



Action	Responsibility	Commentary	Status
<p>3.4 Support public transport uptake through improved service provision and use of planning tools to align developments with effective public transport networks</p>	State Growth	<p>As part of the statewide review of bus services, improvements have been made to the network of bus services and timetabling across each region of the State:</p> <ul style="list-style-type: none"> – Southern bus network: a new network was introduced in January 2019 with additional services commencing in August 2019. – Northern bus network: a new network was introduced in January 2020 with changes made on a trial basis, commencing in July 2020. – North-West region: a new network was introduced and improvements to the intercity network were made in January 2021. <p>As part of the Hobart City Deal, two new Park and Ride facilities are being developed in the Kingborough area with additional trial bus services to be put in place to encourage uptake.</p> <p>A statewide fare structure for public bus services is currently under development.</p>	 ONGOING
<p>3.5 Improve the efficiency of the Tasmanian Government transport fleet by extending the Smarter Fleets program, reviewing the Green Vehicle Guide minimum standards, and identifying and addressing barriers to the uptake of electric vehicles in the Government fleet</p>	DPAC (TCCO)	<p>The Smarter Fleets Program – Electric Vehicles in the Tasmanian Government supported Tasmanian Government agencies to prepare to integrate electric vehicles in their fleets. The Program analysed the existing fleet and identified practical solutions and options to support electric vehicle uptake.</p> <p>In the 2020-21 Budget, the Tasmanian Government announced a target to transition the government fleet to 100 per cent electric vehicles by 2030.</p>	 ONGOING




Photo: Chris Crerar

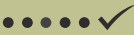



4 GROWING A CLIMATE-READY ECONOMY



This priority area aims to create a climate-ready economy by supporting businesses and agricultural producers to reduce their emissions, be prepared for the impacts of climate change and leverage opportunities.

Action	Responsibility	Commentary	Status
<p>4.1 Attract investment and jobs by using our clean energy advantage and making climate change projections easily available and accessible for investors</p>	<p>Coordinator-General DPAC (TCCO)</p>	<p>The Office of the Coordinator-General continues to promote Tasmania's renewable clean energy advantage across industries, and to a wide variety of domestic and international proponents.</p> <p>The Office of the Coordinator-General focus includes promoting the State as an ideal location for:</p> <ul style="list-style-type: none"> – investors to establish renewable energy generation projects; and – industries to utilise our renewable energy as a key input into their industrial or commercial processes. <p>The Office is currently working with and supporting a wide variety of proponents across several renewable energy projects including hydrogen, wind and solar.</p> <p>The State's renewable energy advantage and climate change projections continue to be highlighted in a range of communications that the Office produces; including the recently released "Southern Tasmanian Advantage"¹ prospectus which highlights the role of the Tasmanian Climate Change Office and the Tasmanian Climate Change Action Plan, providing pathways for investors to obtain further information.</p>	<p> ONGOING</p>

¹ https://www.cg.tas.gov.au/__data/assets/pdf_file/0011/283574/Southern_Tasmania_Prospectus.pdf

Action	Responsibility	Commentary	Status
4.2 Work with farmers to reduce fertiliser-related emissions and costs by continuing to deliver the Fert\$mart program in partnership with DairyTas	DPAC (TCCO)	<p>Two hundred Fert\$mart plans covering 60,000 hectares have been developed for Tasmanian dairy farms. This represents nearly 50 per cent of the State's dairy farms.</p> <p>The Tasmanian Government provided financial assistance of \$27,500 to local farmers to install the infrastructure necessary to implement the effluent management component of their Fert\$mart plans. This funding provided the momentum for practical on-farm infrastructure works totalling \$431,000, and an additional 230 hectares of land being irrigated with effluent and an additional seven megalitres of effluent storage.</p>	 COMPLETE
4.3 Undertake a business resource efficiency program to assist small and medium-sized businesses to reduce their emissions and operating costs through resource efficiency initiatives, and building industry capacity	DPAC (TCCO) <i>State Growth</i>	<p>Eleven businesses across a range of sectors completed the Business Resource Efficiency Program. The aim of the program was to: help small to medium-sized Tasmanian businesses reduce their consumption of resources, and minimise waste streams; reduce operating costs and drive productivity gains; and provide businesses with practical and tailored information about ways to improve their resource efficiency. Businesses have worked together through facilitated workshops to implement their waste minimisation projects. Case studies, fact sheets, videos and audit tools are available on the TCCO website.</p>	 COMPLETE
4.4 Work with the agricultural sector to improve energy efficiency and reduce emissions by updating the online energy self-audit tool and developing guidance materials	DPIPWE <i>DPAC (TCCO)</i>	<p>An interactive tool has been developed to assist farms with energy management and energy self-audits. Features of the tool include identifying energy use, setting benchmarks and targets, and implementing energy and cost saving measures. The online calculator tool that complements this manual is also available to aid in conducting energy self-audits of farms.</p>	 COMPLETE
4.5 Support the resilience of small and medium-sized businesses to extreme events by extending the Disaster Planning and Recovery for Tasmanian Businesses project, which involves workshops and tailored resources	DPAC (TCCO) <i>State Growth</i>	<p>A series of workshops were held across regional Tasmania, supporting 48 Tasmanian businesses to undertake business continuity planning to prepare for and respond to extreme climatic events.</p>	 COMPLETE

Action	Responsibility	Commentary	Status
<p>4.6 Provide information on climate change risks and opportunities through Enterprise Suitability Mapping to support future decision making for the agricultural sector</p>	<p>DPIPWE DPAC (TCCO)</p>	<p>Provision of information on risks and opportunities through Enterprise Suitability mapping to support decision making for the agricultural sector.</p> <p>Enterprise Suitability map layers for six crops (Barley, Poppies, Potatoes, Sparkling Wine, Table Wine and Wheat) have been produced for years 2030 and 2050 (based on Climate Futures for Tasmania projections). The outputs are available through LISTmap and Open data.</p>	<p>●●●●●✓ COMPLETE</p>
<p>4.7 Develop a new waste management action plan for Tasmania which includes a focus on emissions reduction</p>	<p>DPIPWE</p>	<p>Tabling of legislation to implement the key initiatives of the waste action plan (Container Refund Scheme and Waste Levy) is expected during the second half of 2021. The levy legislation has been through a public consultation phase and the Container Refund Scheme opened for public consultation in June 2021.</p>	<p>●●●●●✓ COMPLETE</p>



Action	Responsibility	Commentary	Status
<p>4.8 Deliver the five proposed Tranche II irrigation development schemes, and investigate the feasibility of Tranche III schemes, to provide water surety for the agricultural sector in a changing climate</p>	<p>Tasmanian Irrigation <i>DPIPWE</i></p>	<p>Deliveries of water from the Scottsdale Irrigation Scheme (the fifth and final Tranche II scheme) commenced in November 2020.</p> <p>Tasmanian Irrigation is well advanced in designing the first five Tranche III Pipeline to Prosperity irrigation schemes and has commenced planning for the remaining five schemes under the program.</p> <p>The Tasmanian Government has committed \$113.7 million to Tranche III and is seeking up to \$100 million in additional funding from the Australian Government, on top of the \$100 million in Commonwealth funds secured to date.</p>	<p>●●●●●✓ COMPLETE</p>
<p>4.9 Invest in skills to prepare our industry sectors, regional communities and workforce for a changing climate</p>	<p>State Growth</p>	<p>The Energising Tasmania project is supporting Tasmania's transition to zero emissions training through investments in workforce development, training, market development and the Energising Tasmania Training Fund.</p> <p>The Energising Tasmania Training Fund is fully subsidised training for several qualifications, including renewable energy pathways.</p> <p>Projects funded by Energising Tasmania include a regional workforce development plan for Circular Head and development of an entry level qualification for future hydrogen and renewable energy workers.</p>	<p>♻️ ONGOING</p>



Photo: Chris Crerar

5 BUILDING CLIMATE RESILIENCE



This priority area aims to build climate resilience by enhancing our capacity to withstand and recover from extreme weather events, and better understand and manage the risks of a changing climate.





Action	Responsibility	Commentary	Status
5.1 Build community resilience by raising awareness of flood risks and implementing a statewide system for flood warnings and alerts	DPFEM (SES)	<p>State Emergency Service has initiated an ongoing program to deliver Community Flood Guides for all flood-prone communities in Tasmania. The guides provide advice to residents on what to do before, during, and after a flood event.</p> <p>SES has initiated a project to deliver a new flood warning service that aligns with the Australian Warning System.</p>	 ONGOING



Photo: courtesy of SES/Huon Valley Council

Action	Responsibility	Commentary	Status
<p>5.2 Develop online resources to help communities understand their exposure to natural hazards</p>	<p>DPAC (OSEM)</p>	<p>RiskReady went live on the TasALERT website in mid-December 2019.</p> <p>RiskReady was developed to provide an easy-to-use online portal that delivers property-based natural hazard information to the community in an accessible, relevant and understandable format. By providing this information, property owners can be empowered to adapt and respond to the presence and risks of natural hazards on their land.</p> <p>These spatial layers are currently available on RiskReady:</p> <ul style="list-style-type: none"> – Landslide; – Coastal Inundation; – Coastal Erosion; – Bushfire Prone Area; and – Bushfire Impact Area. <p>'Bushfire prone area' mapping is currently available on RiskReady for 10 Local Government Areas, with a further 12 to be added soon.</p> <p>'Bushfire prone area' mapping for the remaining seven Local Government Areas will be made available once councils make amendments to their respective planning schemes.</p> <p>Other additional hazards will be added to RiskReady over time, with detailed flood modelling becoming available in the next couple of years.</p>	<p>●●●●●✓ COMPLETE</p>
<p>5.3 Work with local government and regional bodies to embed climate change adaptation into strategic and financial decision making</p>	<p>DPAC (TCCO)</p>	<p>TCCO continues to support Tasmanian councils to understand and manage climate-related risks likely to affect their operations and service delivery. Following a 2018 analysis of Tasmanian local government's climate change governance, 17 of Tasmania's 29 councils participated in the Climate Resilient Councils project. Each council received a detailed project report that assessed how climate change is considered by their council, and suggested opportunities for further consideration of climate-related risk in council decision making.</p>	<p>🔄 ONGOING</p>

Action	Responsibility	Commentary	Status
5.4 Understand and manage the impacts of coastal hazards to existing settlements by identifying risks and developing management options	DPAC (TCCO, OSEM) <i>DoJ</i>	<p>Supporting Tasmania's coastal managers to help them identify and manage coastal hazards to existing settlements and values. Four information gathering workshops with coastal managers and relevant staff from State and local governments and government business enterprises were held across the State in late 2018.</p> <p>The findings from the workshops will inform the development of the Tasmanian Government's ongoing approach to managing coastal hazards for existing settlements and values.</p>	 ONGOING
5.5 Examine the impacts of climate change on bushfire risks in the Tasmanian Wilderness World Heritage Area	DPAC (TCCO) <i>DPIPWE</i> <i>DPFEM</i>	<p>The Tasmanian Government's response to the Tasmanian Wilderness World Heritage Area Bushfire and Climate Change Research Project was publicly released in December 2017.</p> <p>To support the implementation of the report recommendations, the Tasmanian Government allocated additional funding of \$4 million over four years in the 2017-18 Budget for bushfire management in the TWWHA.</p> <p>This funding is supporting the implementation of a number of the Research Project's recommendations. This includes improving bushfire management planning, bushfire risk assessment and modelling, bushfire recovery, developing a model of fire cover, and undertaking planned burning in the TWWHA.</p>	 COMPLETE
5.6 Work with Tasmanian Government agencies to embed climate change consideration in strategic planning, purchasing and decision making	DPAC (TCCO) <i>Treasury</i>	<p>The Tasmanian Government has substantial information on climate-related risks for Tasmania. A key example is the climate projections developed through the Climate Futures for Tasmania project.</p> <p>The 2020 review of the <i>Climate Change (State Action) Act 2008</i> (the Act) is underway which will include consideration of climate in government decision making.</p> <p>The Tasmanian Government is preparing its response to the review of the Act.</p>	 ONGOING


Action	Responsibility	Commentary	Status
<p>5.7 Mitigate risks from bushfire by delivering a targeted program of burns to reduce fuel in areas that pose the greatest risk to the Tasmanian community</p>	DPIPWE	<p>The Parks and Wildlife Service (DPIPWE) has completed 48 planned burns from 1 July 2020 to 1 June 2021 covering 10,000 hectares. The burns have been targeted to reduce the risk of bushfires impacting on communities, as part of the Statewide Fuel Reduction Program, and also treat broad areas of vegetation in and around the Tasmanian Wilderness World Heritage Area to protect natural and cultural values.</p>	 ONGOING



Photo: Chris Crerar

6

SUPPORTING COMMUNITY ACTION



This priority area aims to support vulnerable Tasmanians adapt to a changing climate, increase community action to reduce emissions and energy use and commits to a long-term target to achieve zero net emissions for Tasmania by 2050.

Action	Responsibility	Commentary	Status
<p>6.1 Legislate for a target of zero net emissions by 2050</p>	<p>DPAC (TCCO)</p>	<p>Given the State’s already low emissions profile, and its natural and competitive advantages, the Tasmanian Government plans to conduct a detailed analysis of future emissions, to determine if Tasmania can be more ambitious and bring forward its target of net zero emissions by 2050. In addition, an economic impact assessment of a more ambitious emissions reduction target is also being conducted.</p> <p>This matter will also be considered as part of the 2020 review of the <i>Climate Change (State Action) Act 2008</i> (the Act) which legislates Tasmania’s emissions reduction target. The Tasmanian Government is preparing its response to the review of the Act.</p>	<p>● ● ● ●</p> <p>IN PROGRESS</p>
<p>6.2 Deliver a home energy savings program for low income households, provide energy efficiency information, and undertake energy efficiency audits and low cost upgrades</p>	<p>DPAC (TCCO)</p>	<p>Power\$mart Homes was a statewide energy efficiency program to help low income Tasmanian households stay warm, save money and reduce greenhouse gas emissions.</p> <p>The program was discontinued to comply with public health directives as part of Tasmania’s COVID-19 pandemic response. Prior to suspension, 146 eligible Tasmanian households received home energy efficiency assessments, energy efficiency information, and a range of low cost energy efficiency upgrades. Funding was reallocated to support climate change research.</p>	<p>— ● — ● — ● — ● — ● —</p> <p>DISCONTINUED</p>

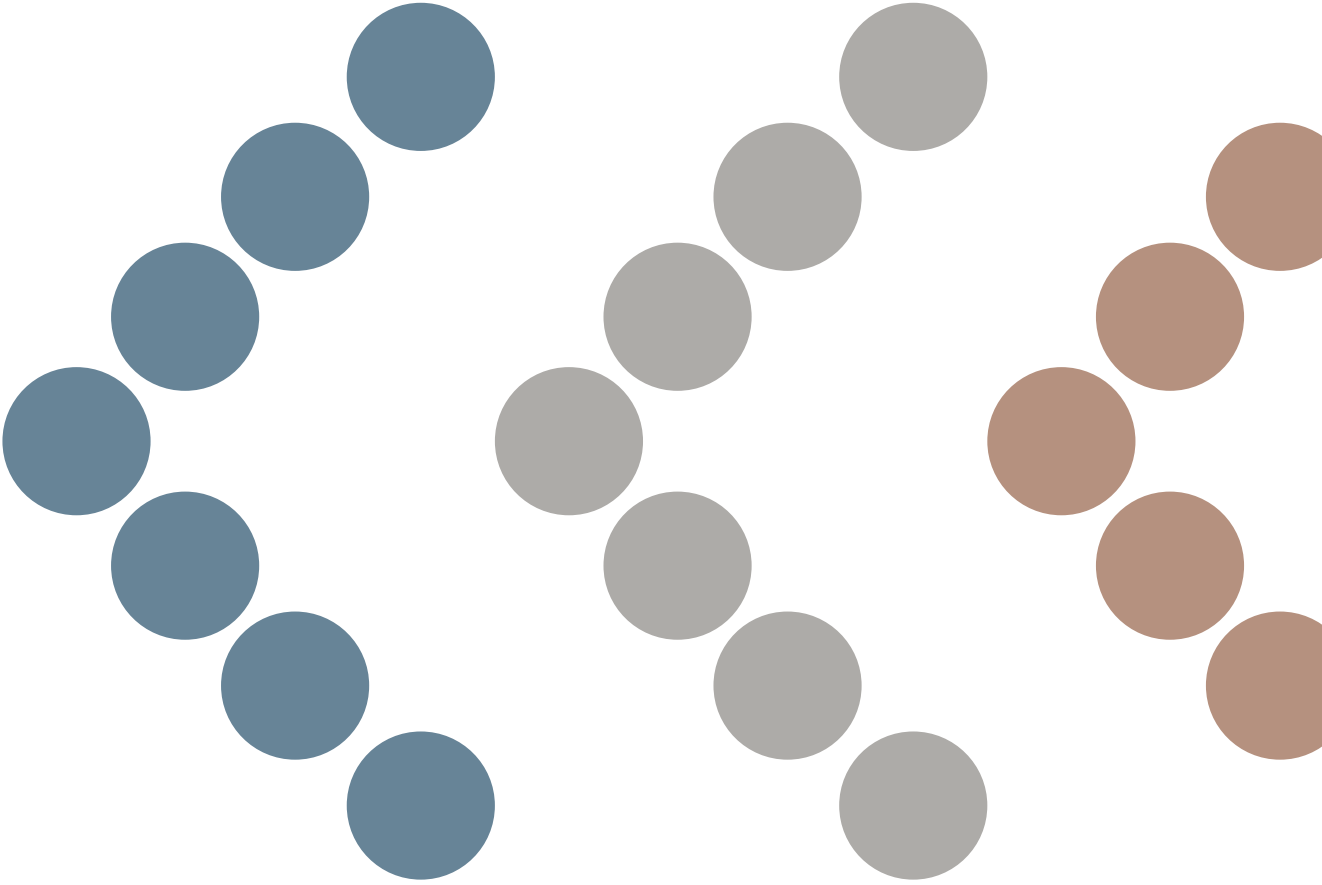
Action	Responsibility	Commentary	Status
6.3 Support the aged care sector to prepare for, and respond to, extreme heat events by developing tailored resources for aged care facilities	DoH	Energy efficiency audits of nine aged care facilities were completed and a range of resources for the aged care sector were developed.	●●●●●✓ COMPLETE
6.4 Identify additional policies and programs to build community resilience to population health risks in a changing climate	DoH	The Tasmanian Climate Change and Health Roundtable brought together international, national and local health practitioners. The Roundtable final report is available on the Department of Health website (www.dhhs.tas.gov.au/publichealth/climate_change).	●●●●●✓ COMPLETE
6.5 Deliver an energy efficiency program for community sector professionals to assist clients to reduce their energy use	DPAC (TCCO)	Twelve statewide workshops for financial counsellors were held to better assist vulnerable clients to manage their energy use and power bills.	●●●●●✓ COMPLETE



Photo: Chris Crerar

LIST OF ACRONYMS AND ABBREVIATIONS

Climate Action 21	_____	<i>Climate Action 21: Tasmania's Climate Change Action Plan 2017–2021</i>
CO₂-e	_____	carbon dioxide equivalent
Coordinator-General	___	Office of the Coordinator-General
DoE	_____	Department of Education
DoH	_____	Department of Health
DoJ	_____	Department of Justice
DPAC	_____	Department of Premier and Cabinet
DPFEM	_____	Department of Police, Fire and Emergency Management
DPIPWE	_____	Department of Primary Industries, Parks, Water and Environment
LULUCF	_____	land use, land use change and forestry
Mt	_____	megatonnes
OSEM	_____	Office of Security and Emergency Management
SES	_____	State Emergency Service
State Growth	_____	Department of State Growth
Tasmanian Irrigation	___	Tasmanian Irrigation Pty Ltd
TCCO	_____	Tasmanian Climate Change Office
The Act	_____	<i>Climate Change (State Action) Act 2008</i>
Treasury	_____	Department of Treasury and Finance
TWWHA	_____	Tasmanian Wilderness World Heritage Area





Tasmanian Climate Change Office
Department of Premier and Cabinet
GPO Box 123, HOBART TAS 7001
Phone: 03 6232 7173
Email: climatechange@dpac.tas.gov.au
Visit: www.climatechange.tas.gov.au