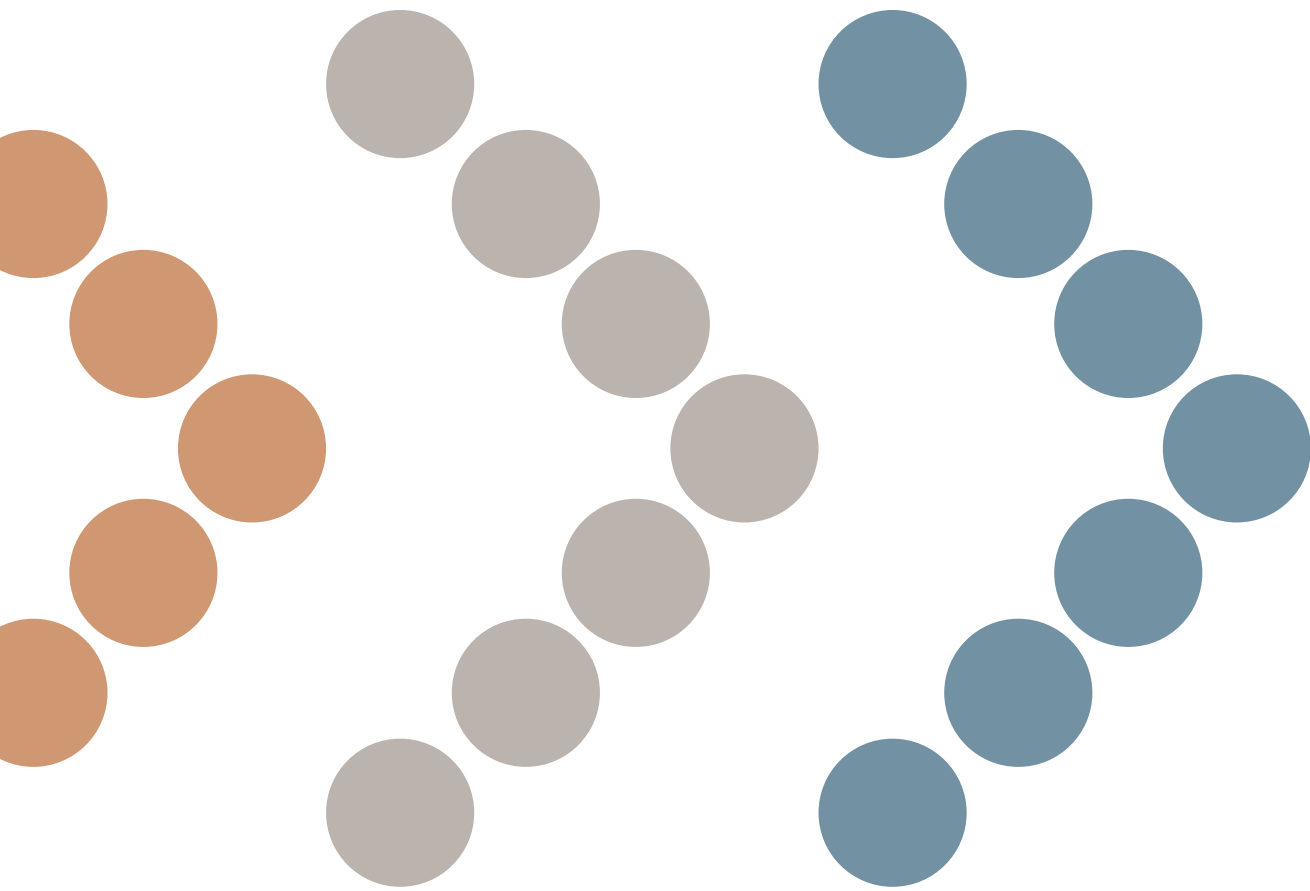


# CLIMATE ACTION 21

## IMPLEMENTATION PLAN





*Climate Action 21: Implementation Plan*

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Tasmanian Climate Change Office  
Department of Premier and Cabinet

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## CLIMATE ACTION 21

*Climate Action 21: Tasmania's Climate Change Action Plan 2017-2021* (Climate Action 21) sets the Tasmanian Government's agenda for action on climate change through to 2021. It reflects the Government's commitment to addressing the critical issue of climate change and articulates how Tasmania will play its role in the global response to climate change. Underpinning Climate Action 21 is a commitment to establish a long-term target to achieve zero net emissions for Tasmania by 2050.

Climate Action 21 was developed with input from the Tasmanian community, businesses, local government and the scientific community.

The Department of Premier and Cabinet's Tasmanian Climate Change Office (TCCO) is responsible for coordinating the implementation of Climate Action 21.

The Tasmanian Government has committed \$3 million in new funds to support the delivery of Climate Action 21. This builds on over \$400 million already committed to action on climate change, including a comprehensive targeted fuel reduction burning program, the Tasmanian Energy Efficiency Loan Scheme, modernisations and upgrades to renewable hydro-electric assets, and investment in irrigation infrastructure to provide greater surety to farmers in a dry climate.



**1 UNDERSTANDING TASMANIA'S FUTURE CLIMATE** commits to providing up-to-date information on climate change projections and impacts, and tailoring this information to support decision making across key industry sectors.



**2 ADVANCING OUR RENEWABLE ENERGY CAPABILITY** supports national energy security solutions in the transition to a low carbon generation network and delivers energy efficiency programs with local government, households and businesses.



**3 REDUCING OUR TRANSPORT EMISSIONS** promotes the uptake of electric vehicles and other alternative forms of transport, and optimises the use of vehicles to reduce costs and emissions.



**4 GROWING A CLIMATE-READY ECONOMY** supports businesses and agricultural producers to reduce their emissions, be prepared for the impacts of climate change, and leverage opportunities.



**5 BUILDING CLIMATE RESILIENCE** enhances our capacity to withstand and recover from extreme weather events, and better understand and manage the risks of a changing climate.



**6 SUPPORTING COMMUNITY ACTION** establishes an aspirational emissions reduction target of zero net emissions by 2050, recognises that all Tasmanians have a role to play in tackling climate change, and assists the community to reduce emissions and energy use.

TAKING ACTION

Contribute to global efforts to limit warming to 2°C

Zero net emissions by 2050



Manage risks and build resilience

Understand and manage risks and opportunities



A shared response to prepare for our future climate



1 UNDERSTANDING TASMANIA'S FUTURE CLIMATE



2 ADVANCING OUR RENEWABLE ENERGY CAPABILITY



3 REDUCING OUR TRANSPORT EMISSIONS



4 GROWING A CLIMATE-READY ECONOMY



5 BUILDING CLIMATE RESILIENCE



6 SUPPORTING COMMUNITY ACTION

KEY PRINCIPLES

Use the best available science and information

Work with businesses, the community and all levels of government

Evaluate, monitor and report on progress

Assess and respond to key risks and opportunities

Share information to support action

Complement national and international policies and initiatives

## IMPLEMENTATION PLAN

The purpose of the Implementation Plan is to guide the delivery of the 37 actions contained in Climate Action 21. The Implementation Plan outlines timeframes for each action and identifies the benefits that will be achieved by taking action.

## ADAPTIVE MANAGEMENT FRAMEWORK

The implementation of Climate Action 21 will be informed by an adaptive management approach to ensure effective outcomes.

An adaptive management approach will be achieved through:

- considering the best available evidence as projects are developed;
- being informed by a contemporary understanding of climate science;
- assessing and responding to risks and opportunities; and
- establishing effective methods and timeframes for evaluation and review.

## WORKING TOGETHER

The TCCO will implement Climate Action 21 in collaboration with all levels of government, non-government organisations, business and industry, the scientific community, peak organisations and the broader Tasmanian community.

The Implementation Plan outlines the key partners the Tasmanian Government will work with to deliver each action.

A collaborative approach will be achieved through:

- seeking the views of others to inform the scope and delivery of projects;
- monitoring and reporting publicly on progress; and
- sharing information and learnings with others.

## MONITORING AND REPORTING

Each year, a report card on progress against Climate Action 21 will be released by TCCO. This will communicate the status of each action including achievement of key milestones within the allocated budget.

In addition, TCCO will determine whether the actions are effective by undertaking a monitoring and evaluation program.

Information and learnings relating to the implementation of Climate Action 21 will also be shared publicly through the TCCO website, Facebook page and subscriber newsletter.





## IMPLEMENTATION PLAN OVERVIEW

Action	17-18	18-19	19-20	20-21
<b>PRIORITY 1: UNDERSTANDING TASMANIA'S FUTURE CLIMATE</b>				
1.1 Review climate change models, identify research gaps and opportunities, and determine priority research projects	✓	✓	✓	✓
1.2 Undertake research to build our understanding of Tasmania's vulnerability to coincident extreme events and their impacts	✓	✓	✓	✓
1.3 Provide sector-specific information on Tasmania's future climate through tailored climate information and decision support tools for end users		✓	✓	✓
1.4 Support an ongoing commitment to the National Climate Science Centre in Hobart	✓	✓	✓	✓
<b>PRIORITY 2: ADVANCING OUR RENEWABLE ENERGY CAPABILITY</b>				
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	✓	✓	✓	✓
2.2 Provide resources and guidance materials to support businesses and households to access the Tasmanian Energy Efficiency Loan Scheme (TEELS) or other finance options	✓	✓		
2.3 Work with businesses to maximise energy efficiency and identify energy savings projects eligible for application to TEELS or other finance options	✓	✓	✓	
2.4 Determine the suitability of Environmental Upgrade Agreements and other financing options to support energy upgrades in Tasmania's non-residential building stock	✓			
2.5 Work with local government and service providers to support the delivery of energy efficient street lighting and smart controls projects	✓	✓	✓	✓
2.6 Support Tasmanian Government agencies to monitor and report energy usage and greenhouse gas emissions	✓	✓	✓	✓
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	✓	✓	✓	✓
<b>PRIORITY 3: REDUCING OUR TRANSPORT EMISSIONS</b>				
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		✓	✓	
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	✓	✓		
3.3 Extend the Smarter Fleets program to improve the efficiency of heavy vehicle fleets and additional light vehicle fleets	✓	✓	✓	
3.4 Support public transport uptake through improved service provision and use of planning tools to align developments with effective public transport networks	✓	✓	✓	✓
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	✓	✓	✓	✓



Action	17-18	18-19	19-20	20-21
<b>PRIORITY 4: GROWING A CLIMATE-READY ECONOMY</b>				
4.1 Attract investment and jobs by using our clean energy advantage and making climate change projections easily available and accessible for investors	✓	✓	✓	✓
4.2 Work with farmers to reduce fertiliser-related emissions and costs by continuing to deliver the Fert\$mart program in partnership with DairyTas	✓			
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	✓	✓	✓	
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	✓			
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	✓			
4.6 Provide information on climate change risks and opportunities through Enterprise Suitability Mapping to support future decision making for the agricultural sector	✓	✓	✓	✓
4.7 Develop a new waste management action plan for Tasmania which includes a focus on emissions reduction	✓	✓		
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	✓	✓	✓	✓
4.9 Invest in skills to prepare our industry sectors, regional communities and workforce for a changing climate	✓	✓	✓	✓
<b>PRIORITY 5: BUILDING CLIMATE RESILIENCE</b>				
5.1 Build community resilience by raising awareness of flood risks and implementing a statewide system for flood warnings and alerts	✓			
5.2 Develop online resources to help communities understand their exposure to natural hazards	✓	✓	✓	✓
5.3 Work with local government and regional bodies to embed climate change adaption into strategic and financial decision making	✓	✓		
5.4 Understand and manage the impacts of coastal hazards to existing settlements by identifying risks and developing management options	✓	✓		
5.5 Examine the impacts of climate change on bushfire risks in the Tasmanian Wilderness World Heritage Area (TWWHA)	✓			
5.6 Work with Tasmanian Government agencies to embed climate change consideration in strategic planning, purchasing and decision making	✓	✓	✓	✓
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	✓	✓	✓	✓
<b>PRIORITY 6: SUPPORTING COMMUNITY ACTION</b>				
6.1 Legislate for a target of zero net emissions by 2050	✓	✓		
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		✓	✓	✓
6.3 Support the aged care sector to prepare for, and respond to, extreme heat events by developing tailored resources for aged care facilities	✓			
6.4 Identify additional policies and programs to build community resilience to population health risks in a changing climate	✓	✓	✓	✓
6.5 Deliver an energy efficiency program for community sector professionals to assist clients to reduce their energy use	✓			



# 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.

## **PARTNERS:**

- **Scientific and research community**
- **Local government**
- **Government business enterprises**
- **Industry sectors**
- **Business**

## **BENEFITS:**

- **Accurate and up-to-date climate science to inform decision making**
- **Build our knowledge of future climate impacts**

	<b>Lead Agency Partner Agency</b>	<b>Expected commencement</b>	<b>Expected completion</b>
<b>ACTION 1.1</b>			
Review climate change models, identify research gaps and opportunities, and determine priority research projects to update Tasmania's climate science	DPAC (TCCO)	Commenced	FY 2020-21
<b>ACTION 1.2</b>			
Undertake research to build our understanding of Tasmania's vulnerability to coincident extreme events and their impacts	DPAC (TCCO)	FY 2017-18	FY 2020-21
<b>ACTION 1.3</b>			
Provide sector-specific information on Tasmania's future climate through tailored climate information and decision support tools for end users	DPAC (TCCO)	FY 2018-19	FY 2020-21
<b>ACTION 1.4</b>			
Support an ongoing commitment to the National Climate Science Centre in Hobart	DPAC (TCCO)	Commenced	Ongoing



## 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.

### **PARTNERS:**

- **Business**
- **Local government**
- **Government business enterprises**
- **Property owners**
- **Peak industry bodies**

### **BENEFITS:**

- **Increased renewable energy generation**
- **Increased energy efficiency and savings on power bills**

	<b>Lead Agency Partner Agency</b>	<b>Expected commencement</b>	<b>Expected completion</b>
<b>ACTION 2.1</b>			
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	State Growth	Commenced	Ongoing
<b>ACTION 2.2</b>			
Provide resources and guidance materials to support businesses and households to access TEELS or other finance options	DPAC (TCCO)	Commenced	FY 2018-19
<b>ACTION 2.3</b>			
Work with businesses to maximise energy efficiency and identify energy savings projects eligible for application to TEELS or other finance options	DPAC (TCCO)	FY 2017-18	FY 2019-20
<b>ACTION 2.4</b>			
Determine the suitability of Environmental Upgrade Agreements and other financing options to support energy upgrades in Tasmania's non-residential building stock	DPAC (TCCO)	Commenced	FY 2017-18
<b>ACTION 2.5</b>			
Work with local government and service providers to support the delivery of energy efficient street lighting and smart controls projects	DPAC (TCCO)	Commenced	Ongoing
<b>ACTION 2.6</b>			
Support Tasmanian Government agencies to monitor and report energy usage and greenhouse gas emissions	DPAC (TCCO)	Commenced	Ongoing
<b>ACTION 2.7</b>			
Improve the energy efficiency of Tasmanian Government owned and leased buildings through energy audits, cost-effective capital upgrades and a behaviour change program	DPAC (TCCO)	FY 2017-18	Ongoing



## 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.

### PARTNERS:

- Fleet managers
- Business
- Local government
- Government business enterprises
- University of Tasmania
- Peak industry bodies
- Community

### BENEFITS:

- Reduced transport emissions
- Improved air quality and health outcomes
- Cost savings from more efficient vehicle use
- Improved energy security

	<b>Lead Agency Partner Agency</b>	<b>Expected commencement</b>	<b>Expected completion</b>
<b>ACTION 3.1</b>			
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)	FY 2018-19	FY 2019-20
<b>ACTION 3.2</b>			
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	DPAC (TCCO)	FY 2017-18	FY 2018-19
<b>ACTION 3.3</b>			
Extend the Smarter Fleets program to improve the efficiency of heavy vehicle fleets and additional light vehicle fleets	DPAC (TCCO)	FY 2017-18	FY 2019-20
<b>ACTION 3.4</b>			
Support public transport uptake through improved service provision, use of planning tools to align developments with effective public transport networks	State Growth	Commenced	Ongoing
<b>ACTION 3.5</b>			
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	DPAC (TCCO)	Commenced	Ongoing



## 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.

### PARTNERS:

- **Agricultural sector**
- **Business**
- **Peak industry bodies**
- **Local government**
- **Service providers**
- **Community**

### BENEFITS:

- **Increased investment and skills in clean energy technologies**
- **Improved understanding of climate-related risks and opportunities for business and industry**



	<b>Lead Agency Partner Agency</b>	<b>Expected commencement</b>	<b>Expected completion</b>
<b>ACTION 4.1</b>			
Attract investment and jobs by using our clean energy advantage and making climate change projections easily available and accessible for investors	Coordinator General DPAC (TCCO)	Commenced	Ongoing
<b>ACTION 4.2</b>			
Work with farmers to reduce fertiliser-related emissions and costs by continuing to deliver the Fert\$mart program in partnership with DairyTas	DPAC (TCCO)	Commenced	FY 2017-18
<b>ACTION 4.3</b>			
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) State Growth	FY 2017-18	FY 2019-20
<b>ACTION 4.4</b>			
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 DPAC (TCCO)	Commenced	FY 2017-18
<b>ACTION 4.5</b>			
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) State Growth	Commenced	FY 2017-18
<b>ACTION 4.6</b>			
Provide information on climate change risks and opportunities through Enterprise Suitability Mapping to support future decision making for the agricultural sector	DPIPWE DPAC (TCCO)	Commenced	Ongoing
<b>ACTION 4.7</b>			
Develop a new waste management action plan for Tasmania which includes a focus on emissions reduction	DPIPWE	FY 2017-18	FY 2018-19
<b>ACTION 4.8</b>			
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	Tasmanian Irrigation DPIPWE	Commenced	Ongoing
<b>ACTION 4.9</b>			
Invest in skills to prepare our industry sectors, regional communities and workforce for a changing climate	State Growth	Commenced	Ongoing

# 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.

### PARTNERS:

- **Community**
- **Local government**
- **Business**
- **Industry sector**

### BENEFITS:

- **Increased resilience to assist Tasmanians to prepare for, and respond to, the impacts of a changing climate**
- **Allow communities to recover faster following extreme weather events**

	Lead Agency Partner Agency	Expected commencement	Expected completion
<b>ACTION 5.1</b>			
Build community resilience by raising awareness of flood risks and implementing a statewide system for flood warnings and alerts	DPFEM (SES)	Commenced	FY 2017-18
<b>ACTION 5.2</b>			
Develop online resources to help communities understand their exposure to natural hazards	DPAC (OSEM)	Commenced	Ongoing
<b>ACTION 5.3</b>			
Work with local government and regional bodies to embed climate change adaptation into strategic and financial decision making	DPAC (TCCO)	Commenced	FY 2018-19
<b>ACTION 5.4</b>			
Understand and manage the impacts of coastal hazards to existing settlements by identifying risks and developing management options	DPAC (TCCO, OSEM) <i>DoJ</i>	FY 2017-18	FY 2018-19
<b>ACTION 5.5</b>			
Examine the impacts of climate change on bushfire risks in the TWWHA	DPAC (TCCO) <i>DPIPWE</i> <i>DPFEM</i>	Commenced	FY 2017-18
<b>ACTION 5.6</b>			
Work with Tasmanian Government agencies to embed climate change consideration in strategic planning, purchasing and decision making	DPAC (TCCO) <i>Treasury</i>	Commenced	Ongoing
<b>ACTION 5.7</b>			
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	DPIPWE	Commenced	Ongoing



## 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.

### **PARTNERS:**

- **Community**
- **Community sector professionals**
- **Aged care sector**

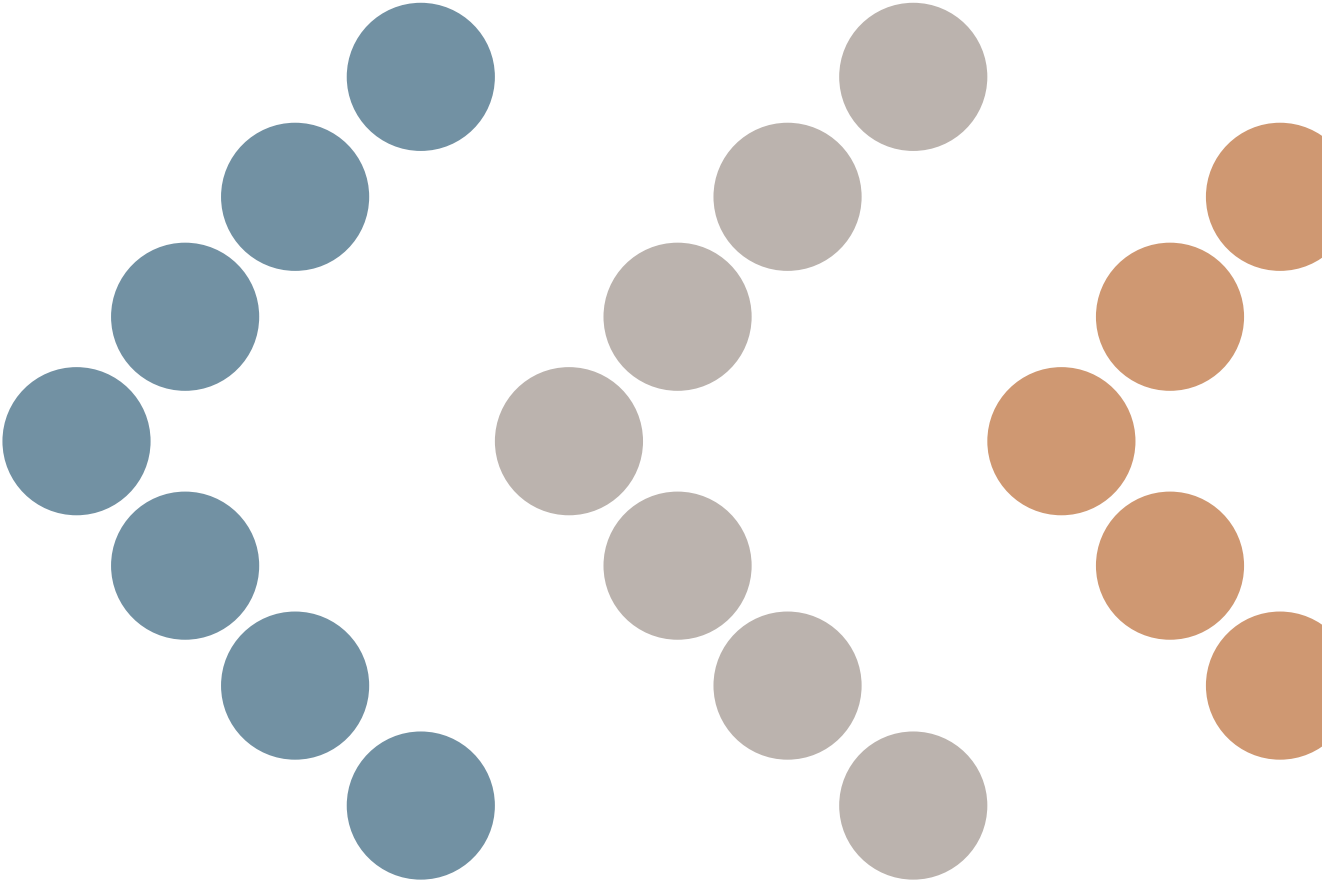
### **BENEFITS:**

- **Improved health outcomes**
- **Increased community action**
- **Shared responsibility in tackling the challenge of climate change**
- **Alignment with the Paris Agreement**

	<b>Lead Agency Partner Agency</b>	<b>Expected commencement</b>	<b>Expected completion</b>
<b>ACTION 6.1</b>			
Legislate for a target of zero net emissions by 2050	DPAC (TCCO)	FY 2017-18	FY 2018-19
<b>ACTION 6.2</b>			
Deliver a home energy savings program for low income households, provide energy efficiency information, and undertake energy efficiency audits and low cost upgrades	DPAC (TCCO)	FY 2018-19	FY 2020-21
<b>ACTION 6.3</b>			
Support the aged care sector to prepare for, and respond to, extreme heat events by developing tailored resources for aged care facilities	DHHS		Complete
<b>ACTION 6.4</b>			
Identify additional policies and programs to build community resilience to population health risks in a changing climate	DHHS	Commenced	Ongoing
<b>ACTION 6.5</b>			
Deliver an energy efficiency education program for community sector professionals to assist clients to reduce their energy use	DPAC (TCCO)		Complete

## LIST OF ACRONYMS AND ABBREVIATIONS

<b>Coordinator General</b>	Office of the Coordinator General
<b>DHHS</b>	Department of Health and Human Services
<b>DoJ</b>	Department of Justice
<b>DPAC</b>	Department of Premier and Cabinet
<b>DPFEM</b>	Department of Police, Fire and Emergency Management
<b>DPIPWE</b>	Department of Primary Industries, Parks, Water and Environment
<b>OSEM</b>	Office of Security and Emergency Management
<b>Paris Agreement</b>	21st Conference of the Parties of the United Nations Framework Convention on Climate Change Paris Agreement
<b>SES</b>	State Emergency Service
<b>State Growth</b>	Department of State Growth
<b>Tasmanian Irrigation</b>	Tasmanian Irrigation Pty Ltd
<b>TCCO</b>	Tasmanian Climate Change Office
<b>TEELS</b>	Tasmanian Energy Efficiency Loan Scheme
<b>Treasury</b>	Department of Treasury and Finance
<b>TWWHA</b>	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](mailto:climatechange@dpac.tas.gov.au)  
Visit: [www.climatechange.tas.gov.au](http://www.climatechange.tas.gov.au)