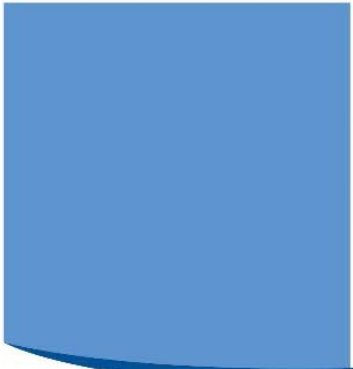
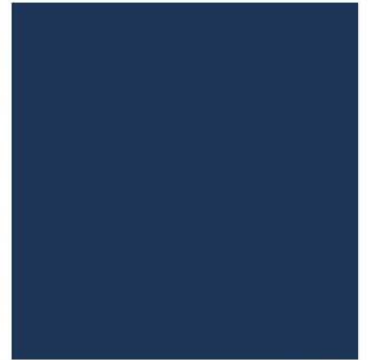


# The Draft Tasmanian Renewable Energy Action Plan 2020



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## Minister's foreword



Tasmania is the renewable energy powerhouse of Australia. Our renewable energy resources and expertise in developing renewable energy is a 21st century competitive advantage. By seizing Tasmania's immense potential, renewable energy can grow our economy, attract investment, create jobs and support Australia's transition to renewable supply.

And there has never been a more important time to manage the transition to renewable energy. As a result of COVID-19, there are unprecedented challenges facing Australian households and industries. Tasmanians can be assured we have taken action to safeguard our energy supply as the COVID-19 pandemic continues to unfold. As we look to the future, our renewable energy developments will form an important part of rebuilding our economy.

Tasmania is Australia's leading renewable energy state and is on track to be self-sufficient in renewables by 2022, making it the first state in Australia with 100 per cent renewable power generation.

Our Tasmania-First Energy Policy includes a target to deliver not only 100 per cent clean energy by 2022 but the lowest-cost regulated electricity in Australia for residential and small business customers by 2022.

But we can and will do more.

We have set a target to double our renewable generation with a target of 200 per cent of our current needs by 2040. Our Tasmanian Renewable Energy Target, or 'TRET', is a world-leading aim. Far beyond our sister Australian states and territories, our target is unmatched globally.

The opportunity to double our already significant renewable energy production, injecting billions into our economy and creating thousands of local jobs, will largely be realised through our nationally significant Project Marinus and Battery of the Nation projects.

Our \$50 million hydrogen industry development support package, the biggest in the nation, will kick-start the renewable hydrogen industry in Tasmania, creating hundreds of additional jobs and injecting further billions into our economy.

Tasmania aspires to lead the way as a region for new and expanded industrial developments on-shore – where manufacturing, commercial and industrial operations can directly access our low cost, reliable and clean electricity resources.

In fact, we will continue our strategy of utilising renewable energy as a key economic driver that benefits all Tasmanians through job creation, investment and economic development.

Tasmanians can be proud that our renewable energy generation is at the heart of Tasmania's nation leading climate action plans, helping to reduce our emissions and those of the nation.

We were the first state to achieve zero net emissions, achieving this feat in 2016, and we still have the lowest per capita emissions of all states and territories.

Proudly, we are also one of the lowest net emitters of carbon dioxide on the planet, having reduced emissions by 95 per cent from 1990 levels.

Renewable energy is consistent with our pure, fresh and natural Tasmanian 'brand' which is best represented by our low cost, reliable, clean energy.

It can't be ignored that we produce nearly a quarter of Australia's renewable energy, while Tasmanians consume just two per cent of the nation's energy.

We remain committed to continuing to promote and develop Tasmania's renewable energy brand both nationally and globally, ensuring we become an example for the rest of the world to follow.

Importantly, Tasmanians come first and are central to our goal to deliver Tasmanian residents and small businesses the lowest possible regulated electricity prices. As the energy market undergoes rapid transformation and technological change, we will ensure that Tasmanian customers are empowered to manage their energy needs and take advantage of new technology and market offerings.

This draft Renewable Energy Action Plan articulates our vision and a suite of actions to develop renewable energy generation in Tasmania over the coming twenty years.

Our plan will define the pathway to securing a renewable energy future, creating thousands of local jobs, strengthening our economy and ensuring energy remains affordable and accessible.

The Renewable Energy Action Plan will establish the platform to transform Tasmania from being Australia's renewable energy powerhouse into a world leading provider of clean, reliable and affordable energy.

We welcome the opportunity to share our vision, and encourage you to provide your feedback on our draft Renewable Energy Action Plan.



The Hon Guy Barnett MP

**Minister for Energy**

# Renewable energy in Tasmania

Renewable energy has been identified as a key economic driver for the future. The Australian energy sector is undergoing a period of unprecedented change. As traditional fossil fuel generators retire, Australia must invest in a modern renewables based energy system that provides affordable, reliable and clean energy.

Over the past 100 years Tasmania has built its economy on our world-class renewable energy, which has provided cost competitive, reliable, clean power. This sustained investment in renewable energy infrastructure and technology has attracted energy-intensive, jobs-rich major industry and placed Tasmania as a leader in renewable energy supply, knowledge and expertise.

As the nation's leading renewable energy state, we are perfectly placed to deliver what the country needs – low cost, reliable and clean energy that will create jobs, put downward pressure on electricity prices, and help decarbonise Australia's energy sector.

Tasmania will soon achieve the status of being one of the few jurisdictions in the world to achieve 100 per cent self-sufficiency in renewable electricity generation.

This status, backed by Tasmania's decade long investment in renewable energy, gives Tasmania a significant competitive advantage as an investment destination for major renewable energy projects, nationally and globally.

The overwhelming majority of Tasmanian electricity is generated from our substantial hydro resources, as well as a significant contribution from our world-class wind resources.

Along with our expertise in developing renewable generation projects across Australia and internationally, Tasmania has the platform to be a world leader in renewable energy.

# Tasmanian Renewable Energy Target

Tasmania will be the first state in Australia, and among an elite few locations globally, with 100 percent renewable power generation. Tasmania has the opportunity to ensure that the most compelling 21<sup>st</sup> century competitive advantage that industry and consumers want – renewable energy – underpins our economy in Tasmania, attracts investment, creates jobs and supports Australia’s transition to renewable energy.

We are the renewable energy powerhouse of Australia and continue to lead the way, which is why we announced a new ambitious renewables target of 200 per cent of our needs by 2040, which will see Tasmania double its renewable production.

Based on current assumptions for 2022, a renewable energy target commitment of an additional 10 500 GWh per year by 2040 would result in a total of approximately 21 000 GWh per year of renewable energy generation.

The importance of the Tasmanian Renewable Energy Target is to provide investment confidence to new renewable energy projects ranging from distributed energy resources to utility-scale hydro, wind and solar generation.

The target will also aid Tasmania’s response to the COVID-19 pandemic through encouraging investment and development and helping to drive the Tasmanian economy onwards as it recovers from the impacts of COVID-19

Our target is expected to be legislated in 2020, and is scheduled for tabling in the second half of the year.

Legislating the Tasmanian Renewable Energy Target will give the Australian energy sector and broader community certainty about the Government’s long term strategy for renewable energy development in Tasmania.

This target will be unmatched globally. There are no other renewable energy targets in the world with Tasmania’s vision.

# Renewable Energy Action Plan

The Tasmanian Renewable Energy Target will underpin our Tasmanian Renewable Energy Action Plan that will deliver for Tasmanians in three key priority areas:

- 1. Transforming Tasmania into a global renewable energy powerhouse**
- 2. Making energy work for the Tasmanian community**
- 3. Growing the economy and providing jobs**

Through setting clear targets and actions, the Tasmanian Renewable Energy Action Plan will build on Tasmania's natural competitive advantages and leverage existing and planned investments to significantly grow Tasmania's renewable energy sector for the benefit of all Tasmanians.

Helping achieve our target, our major national renewable energy projects such as Battery of the Nation, Project Marinus and existing and future wind farm developments are integral to the Tasmanian Renewable Energy Action Plan, as is the Tasmanian Renewable Hydrogen Action Plan that will enable Tasmania to benefit from the emerging global hydrogen industry.

The Tasmanian Renewable Energy Action Plan will ensure that throughout this ground breaking period of change, the benefits of renewable energy flow to all Tasmanians.

In these challenging times as the COVID-19 crisis continues to unfold, it is more important than ever to build resilience into our economy. Tasmania's renewable energy plays a critical role in our economy and community life and the Government acted quickly shield Tasmanians from the economic and social impacts of COVID-19 with an unprecedented \$985m Social and Economic Impact Support Package.

However due to the economic uncertainty that the pandemic is causing, the Tasmanian Government will continue to look for opportunities to stimulate and boost our economy and protect and create jobs during this extremely challenging time.

The role that the renewable energy sector can play in boosting jobs and investment during this crisis will be a key area that the Tasmanian Government will examine as part of its the wider economic recovery strategy.

The Tasmanian Renewable Energy Target and the Tasmanian Renewable Energy Action Plan will be key to this and we will continue our strategy of utilising renewable energy as a key economic driver that benefits all Tasmanians through job creation, investment, and economic growth.

# Priority I: Transforming Tasmania into a global renewable energy powerhouse

## KEY TARGETS

- By 2022 Tasmania will be 100 per cent self-sufficient in renewable electricity generation.
- By 2040 we will double our renewable energy generation with a target of 200 per cent of our current needs.
- From 2030 Tasmania will be a producer and exporter of renewable hydrogen.

## Objectives

The Tasmanian Government is committed to transforming Tasmania into a global renewable energy powerhouse.

Tasmania is on target to reach 100 per cent self-sufficiency in renewables ahead of the 2022 target. This achievement will form the baseline for a Tasmanian Renewable Energy Target to double our renewable energy production to 200 per cent of our current electricity needs by 2040.

The Tasmanian Renewable Energy Target is vitally important. It signals our vision to produce more renewable energy than needed on island to export back to mainland Australia via the existing Basslink interconnector, and new interconnection through Project Marinus.

As a key cornerstone of this objective, the government will continue to support and progress major national renewable energy projects such as Battery of the Nation, Project Marinus, and existing and future wind farm developments as well as the opportunities presented by our emerging ocean and biomass resources.

Utilising Tasmania's natural advantages and existing renewable resources, the Tasmanian Renewable Hydrogen Action Plan will ensure Tasmania is perfectly placed to benefit from the emerging global hydrogen industry and will enhance the promotion of Tasmania as a premier destination for investment in clean energy projects.

It is recognised that community support for large scale developments is necessary to ensure that renewable energy works for and benefits the communities in the areas that these developments take place.

We place a high priority on best practice stakeholder engagement, maximising local community benefits, and sound environmental practices. As such, we will develop a best practice framework to support the strategic growth of the renewable energy industry over the next 20 years.

Tasmania will also continue to take a leadership role in efforts to combat climate change and the government will conduct a detailed analysis of the pathway Tasmania would need to take to achieve a target of net zero emissions prior to 2050.



## Actions

### 1.1 Introduce a Tasmanian Renewable Energy Target to double Tasmania's renewable energy production to meet 200 per cent of our current electricity needs

In 2018 as part of the Tasmania-First Energy Policy, the Government set a target for Tasmania to become self-sufficient in renewables by 2022. That is, by 2022 Tasmania will be able to meet its annual electricity demand from on-island renewable electricity generation.

Tasmania is well on target to achieve this milestone ahead of schedule when two major wind farms, Cattle Hill and Granville Harbour, become fully operational.

The Tasmanian Renewable Energy Target will increase the state's renewable generation output equivalent to 200 per cent of 2022 electricity generation levels, meaning that by 2040 Tasmania will produce twice as much renewable energy as it will be generating in 2022. In practice, this is a commitment to generate an additional 10,500 GWh per year by 2040.

The target is expected to be legislated in 2020 and is scheduled for tabling in the second half of the year.

As part of this pathway the government will also set an interim target of achieving 150 per cent of renewable electricity generation by 2030. That is, a target to generate 15 750 GWh per year.

The introduction of legislation setting the target demonstrates the government's intention to further expand on-island renewable generation and drive increased investment and economic activity in the renewables sector. Increased renewable generation will allow Tasmania to increase its energy exports into the National Electricity Market (NEM), attract and develop new industries such as renewable hydrogen, and enhance Tasmania's competitive advantage as a renewables based, low carbon economy.

The realisation of Project Marinus and Battery of the Nation, coupled with Hydro Tasmania's reinvestment program over the next decade and the suite of large scale renewable energy and wind projects already under development, provides a solid and credible basis for Tasmania to achieve this strong and ambitious target.

The setting of a strong target to expand our renewable generation capacity will also further secure the state's energy system and continue Tasmania's transition to a net zero emissions economy.

Importantly, the establishment of the target will further enhance Tasmania's significant contribution to the achievement of national carbon emissions reduction objectives.

Electricity generation is responsible for over 36 per cent of Australia's greenhouse gas emissions. The establishment of a new target will help lead Australia through its transition towards cleaner sources of energy and meet its commitments to reduce greenhouse gas emissions under the Paris Agreement.

## I.2 Continue to progress Project Marinus and Battery of the Nation

### Project Marinus

Project Marinus is a proposed 1500 megawatt capacity undersea electricity connection between Tasmania and Victoria that would allow Tasmania to export more of our renewable, reliable and dispatchable energy resources into Australia's future electricity grid.

To date the Australian Government has contributed \$56 million to advance the design and approvals phase of Project Marinus, while the Australian Renewable Energy Agency (ARENA) has provided \$10 million. The Tasmanian Government, through TasNetworks, has matched this ARENA funding to progress the recently completed Project Marinus Feasibility and Business Case Assessment phases.

On 5 December 2019, TasNetworks released the Business Case Assessment for Project Marinus. The report confirms that a business case is likely to be positive, and shows that the 1500 MW cable (delivered in two 750 MW stages) and supporting transmission are technically feasible and commercially viable. The Marinus Link and supporting transmission upgrades required to the Tasmanian on-island transmission network will enable additional dispatchable energy to be transferred across Bass Strait to support a transforming NEM.

Economic analysis undertaken indicates that in addition to benefits to the energy market of between \$600 million and \$3.1 billion, the project delivers significant broader economic contributions from the development, construction, and operation of Marinus Link and supporting transmission in Tasmania and Victoria. This includes economic value add forecast to be up to \$1.4 billion and 1400 jobs in Tasmania and \$1.5 billion and 1400 jobs in Victoria in peak construction.

The project will also unlock an additional pipeline of investment in renewable energy and long duration energy storage in Tasmania, including Battery of the Nation developments, estimated to be up to \$5.7 billion and 2350 jobs. The total economic contribution to Tasmania from Project Marinus, Battery of the Nation, and broader renewable investment is estimated to be up to \$7.1 billion. This investment can lead to up to 1400 Tasmanian jobs during peak construction and unlock up to 2350 jobs from broader renewable energy projects.

Tasmania will continue to work with national energy market bodies to progress the Marinus Link. At its 20 March 2020 meeting, the Council of Australian Government's (COAG) Energy Council agreed to undertake further work to enable consideration of appropriate fair-cost allocation methodology for transmission infrastructure, such as interconnectors, by 30 September 2020. This work will assess what is the fairest cost allocation, including the status quo. This is an important step to ensuring Tasmanians only pay their fair share for Project Marinus.

### Battery of the Nation

Hydro Tasmania's Battery of the Nation project looks at how Tasmania can tap into its renewable energy potential, through developing a pathway of future opportunities – unlocking latent hydro power capacity, system expansion including pumped hydro, and more transmission and interconnection. The Australian Government has shortlisted Hydro

Tasmania's Battery of the Nation projects in its top 12 projects for its underwriting program. The Tasmanian Government through Hydro Tasmania has committed to spend up to \$30 million to develop one of three shortlisted pumped Hydro Tasmania sites at Lake Cethana, Lake Rowallan or Tribute, to investment-ready stage.

Getting the most out of Hydro Tasmania's existing hydropower generation is another key part of the Battery of the Nation. Up to 400 megawatts of 'latent' capacity in the existing hydro system has also been confirmed and could be available to provide reliable energy to the mainland with additional interconnection. This includes the Tarraleah scheme that is also assessed as having the capacity to deliver more renewable energy and generation flexibility.

The Tasmanian Government is continuing to engage with the Australian Government regarding the underwriting program and its application to Battery of the Nation.

### 1.3 Implementation of the Tasmanian Renewable Hydrogen Action Plan

The global supply and use of energy is dramatically shifting as countries are looking to use cleaner, renewable forms of energy in order to decarbonise their economies. The use of hydrogen, produced from renewable energy, is emerging as a means of achieving these goals. Tasmania is in a unique position where a large-scale renewable hydrogen production and distribution industry could be developed now, using competitively priced existing and new renewables, including high capacity factor wind farmed by hydropower generation.

Tasmanian renewable hydrogen can supply both export markets and domestic markets, with local use providing valuable economic energy security and environmental benefits by reducing dependence on imported fossil fuels.

The Tasmanian Renewable Hydrogen Action Plan articulates the Tasmanian Government's vision and a suite of actions to develop a renewable hydrogen industry in Tasmania.

Key goals of the action plan are:

- By 2022 to 2024:
  - Tasmania has commenced production of renewable hydrogen.
  - Locally produced renewable hydrogen is being used in Tasmania.
  - Export based renewable hydrogen production projects are well advanced.
- By 2025 to 2027:
  - Tasmania has commenced export of renewable hydrogen.
- From 2030:
  - Tasmania is a significant global producer and exporter of renewable hydrogen.
  - Locally produced hydrogen is a significant form of energy used in Tasmania.

In order to achieve these goals the Tasmanian Government is delivering \$50 million over 10 years for a comprehensive package of renewable hydrogen support measures that include:

- \$20 million Tasmanian Renewable Hydrogen Fund
- \$20 million in concessional loans
- \$10 million worth of support services including competitive electricity supply arrangements and payroll tax relief
- assistance for developing offtakes for hydrogen end-use, and

- facilitating land and infrastructure access

These support measures will be delivered through a Tasmanian Renewable Hydrogen Industry Development Funding Program that will commence in the second quarter of 2020. The Tasmanian Renewable Hydrogen Action Plan is available at

[www.stategrowth.tas.gov.au/energy\\_and\\_resources/energy/hydrogen/tasmanian\\_renewable\\_hydrogen\\_action\\_plan](http://www.stategrowth.tas.gov.au/energy_and_resources/energy/hydrogen/tasmanian_renewable_hydrogen_action_plan)

#### 1.4 Undertake community consultation on an ambitious net zero emissions target

Tasmania has a unique greenhouse gas emissions profile in comparison with other Australian jurisdictions, due to the longstanding investment in renewable energy and the carbon sink in our forests. In 2016, Tasmania became the first Australian jurisdiction to achieve net zero emissions, a significant achievement for the state and nation.

The Tasmanian Government's *Climate Change Action Plan 2017-2021*, Climate Action 21, sets the Government's agenda for reducing emissions and taking action on climate change through to 2021. It includes practical actions to reduce emissions from Tasmania's transport, agriculture and energy sectors.

Currently Tasmania has already set a target to continue our low emissions trajectory with a target of zero net emissions by 2050 in line with other Australian states. However, we recognise that there is the opportunity to achieve a much more ambitious target.

By continuing to take action to reduce on island emissions and support Australia's transition to a low-carbon future, Tasmania can maintain its status as a global leader on climate change action.

The Tasmanian Government is committed to net zero emissions and the *Climate Change (State Action) Act 2008* is being amended to reflect this commitment.

The government will conduct a detailed analysis of the pathway Tasmania would need to take to achieve a target of net zero emissions prior to 2050, with consideration given to impacts on industries and jobs. This process will include targeted consultation with industry, the business sector, and the Tasmanian community, and will commence in 2020.

Any new target will need to be informed and underpinned by a strong science and economic evidence base. Therefore the Government has instructed the Department of Premier and Cabinet, the Department of Primary Industries, Parks, Water and the Environment and the Department of State Growth to conduct a detailed analysis of the pathway the state would need to take to achieve zero net emissions prior to 2050. This process will include a targeted six month consultation with industry, the business sector, and the Tasmanian community, and will commence in 2020.

The outcome of the consultation will inform amendments to the *Climate Change (State Action) Act 2008* and the development of the state's next climate change action plan for 2021 onwards.

## 1.5 Scoping study for the development of a Renewable Energy Centre of Excellence

The Tasmanian Government will provide funding for a scoping study into the establishment of a Renewable Energy Centre of Excellence in Tasmania. Tasmania already has world class renewable energy research and development capabilities through the University of Tasmania's Centre for Renewable Energy and Power Systems, and the significant skills and knowledge base of the state's energy businesses and associated sectors. Tasmania's expertise in renewable energy generation is already sought after by international markets, with commercial partnerships underway in the Indian subcontinent, South East Asia and the South Pacific amongst others.

A Renewable Energy Centre for Excellence would seek to harness these existing resources and capabilities through a partnership between industry, the research sector, academic institutions and government. A Tasmanian Renewable Energy Centre for Excellence has the potential to establish a world class centre for the innovative research, training and collaboration required to support growth in the renewable energy sector.

There is also an opportunity to interact or partner with other Tasmanian based initiatives that have alignment with renewable energy development. The Blue Economy Cooperative Research Centre (CRC), based in Launceston, brings together international and local industry and researchers to find solutions to offshore challenges and maximise opportunities for growth.

The Blue Economy CRC is tackling the growing global demand for high value seafood products by exploring the potential for deploying innovative offshore infrastructure powered by sustainable, affordable renewable energy including hydrogen. The Blue Economy CRC will develop innovative and sustainable offshore industries to increase Australian seafood and marine renewable energy production through five research programs:

1. Offshore engineering and technology
2. Seafood and Marine
3. Offshore renewable energy systems
4. Environment and ecosystems, and
5. Sustainable offshore developments

While Tasmania is already on track to be 100 per cent self-sufficient in renewable energy by 2022, the CRC will deliver an Offshore Renewable Energy Systems Program focused on continuing Tasmania's leadership in the production of low-cost, reliable and clean energy through offshore low-cost, reliable and clean electricity and hydrogen energy solutions.

With a total investment of over \$300 million dollars over the ten-year life of the CRC, including \$70 million from the Australian Government and \$2 million from the Tasmanian Government, this CRC is another example of where Tasmania is leading the way as a renewable energy powerhouse in the development of clean green electricity and hydrogen energy solutions.

This globally significant CRC embeds Tasmania as a centre for excellence in marine research and development, providing a platform over the next 10 years and beyond, to showcase the expertise within the University of Tasmania, including the Institute for Marine and Antarctic Studies and the Australian Maritime College.

## 1.6 Develop options to support the bioenergy sector

The Tasmanian Government is seeking to accelerate the adoption of bioenergy. Bioenergy is an internationally recognised form of renewable energy and Tasmania has an abundance of underutilised wood waste and other feedstocks.

Through structured processes, such as the Tasmanian Government funded Wood and Fibre Processing Innovation Program, the government has funded and is supporting a number of bioenergy projects. A key opportunity is likely to include combined heat and power for industrial processes and large space and water heating.

To further take advantage of the opportunities presented by bioenergy, the Department of State Growth is currently preparing a range of options in relation to expanding the domestic processing and bioenergy sectors. These potential policy options will be delivered to government in the second half of 2020 and will provide the government with options to consider to support the industry to increase domestic processing and bioenergy initiatives in Tasmania. These options could include the production of electricity and heat from biomass, and the production of liquid fuels.

## 1.7 Develop a Tasmanian policy framework to coordinate the renewable energy growth required to achieve the Tasmanian Renewable Energy Targets and to support Tasmanian major energy projects (the “Renewable Energy Coordination Framework”).

Australia's energy sector is transforming with the retirement of coal-fired generation. In response, Tasmania has the opportunity to help the NEM through this transformation and is moving to grow its renewable generation capability through major investment projects, such as Battery of the Nation, Project Marinus, additional variable generation (wind/solar) and renewable hydrogen opportunities. Realising Tasmania's renewable energy potential will achieve economic growth, job creation and investment stimulus for the long term benefit of our state.

The Department of State Growth is developing a policy framework to coordinate and support the renewable energy growth required to achieve our Tasmanian Renewable Energy Target. The policy will focus on efficiently delivering major energy projects, including new transmission, needed to unlock generation capacity and yield load investment within our highly prospective Renewable Energy Zones.

Community acceptance is essential to the support of the renewable energy vision. The policy framework will consider the issues that matter to them and identify ways to maximise the local benefits resulting from these projects. The focus will be on delivering best practice stakeholder engagement, community benefits, and accessibility of information.

Through a review of our regulatory approval and policy processes, we will also investigate ways to optimise the strategic delivery of renewable energy projects where it adds value to the energy system and supports communities. This review will look at opportunities to encourage development in appropriate locations, minimise land use conflict, and to provide interdepartmental coordination and consistency.

## I.8 Transport industry emissions pathway

Tasmania has a net emissions profile that is the envy of the nation and we are one of the lowest emitters in the world. However, the government will do its part in reducing our emissions by leading by example. Transport is a significant source of Tasmania's greenhouse gas emissions and vehicle fleet costs are a considerable expense for the Tasmanian Government, local government, the private sector and the community.

A key priority under the *Tasmanian Climate Action Plan 2017-2021* is to reduce Tasmania's transport emissions and costs, and improve the state's energy security by supporting the uptake of electric vehicles powered by our locally-produced renewable energy.

We are committed to working with key partners, through the Electric Vehicle Working Group, to develop a coordinated approach to support the uptake of electric vehicles in Tasmania.

The government is supporting the rollout of a state-wide public charging network for electric vehicles in Tasmania through the ChargeSmart Grants Program. ChargeSmart will deliver a state-wide electric vehicle fast charging network for local residents and visitors who wish to tour the state using electric vehicles. Fourteen fast charging stations will be installed at 12 strategic locations around Tasmania by the end of 2020. 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.

Tasmania's Renewable Hydrogen Action Plan also identifies the value to the transport industry of a thriving 'green hydrogen' sector in Tasmania. To this end, the Tasmanian Government will investigate opportunities for the use of hydrogen transport technologies in the state, with an initial focus on 'return-to-base' transport activities, such as buses, fleet vehicles, freight (including road and rail) and marine applications (such as ferries and barges). The optimised deployment and use of hydrogen refuelling infrastructure will also be investigated.

The Tasmanian Government acknowledges the importance of taking a leadership role in the use of electric vehicles, including electric vehicles powered by hydrogen. In response, we are undertaking further analysis to inform the development of an achievable, affordable and ambitious timeframe to transition the Tasmanian Government fleet to electric vehicles.

## Priority 2: Making energy work for the Tasmanian community

### KEY TARGETS

- Ensure regulated electricity prices remain affordable with the target to achieve the lowest regulated electricity prices in the NEM by 2022.
- Maintain and further strengthen Tasmania's energy security framework.
- Ensure Tasmanian customers have the tools and information required to manage their electricity use, lower bills and access new products and services.

### Objectives

Ensuring Tasmanians have access to reliable, secure and affordable energy is a key priority.

Currently there are unprecedented challenges facing Australian households and industries as a result of COVID-19. Tasmanians can be assured the government has taken action to safeguard Tasmania's energy supply over coming months as the COVID-19 pandemic continues to unfold. As part of the Tasmanian Renewable Energy Action Plan, we will further strengthen and maintain Tasmania's energy security framework against any future energy security challenges.

Significantly, in response to COVID-19, small business customers and community service organisations will have their April 2020 quarterly energy bill waived in recognition of the ongoing impacts that this pandemic is having across Tasmania.

The Tasmanian Government has also acted to cap residential and small business electricity prices until July 2021. These are unprecedented measures aimed at supporting electricity users left vulnerable due to COVID-19.

The government has established a review into wholesale electricity prices to ensure that prices are reflective of costs and to minimise volatility in prices as part of its target to deliver the lowest regulated electricity prices in the NEM by 2022.

Ensuring that Tasmanian customers are empowered to manage their energy needs and take advantage of new technology and market offerings will also be a key priority.



# Actions

## 2.1 Supporting electricity consumers during COVID-19

The Tasmanian Government has taken decisive action to support electricity customers during COVID-19.

During the COVID-19 pandemic, the government is providing relief on electricity bills, including a 100 per cent waiver to eligible small business customers and community service organisations. This effectively waives the payment of their first quarterly electricity bill issued on or after 1 April 2020 for energy consumed in the previous billing period, saving Tasmanian small businesses on average around \$1000.

For all households, businesses and community sector organisations on regulated tariffs, electricity prices will be capped at 2019-20 rates.

The government is working alongside regulators and retailers alike to ensure that customers are protected during COVID-19 and it welcomes the recently released Australian Energy Regulator (AER) 'Statement of Expectations of energy businesses: Protecting consumers and the energy market during COVID-19'. The AER's statement outlines seven principles to ensure the protection of customers and the government notes that major retailers in Tasmania have already committed to follow these expectations.

## 2.2 Establish a pricing framework that results in affordable electricity prices for Tasmanian consumers

In 2018 as part of its Tasmania-First Energy Policy, the Tasmanian Government acted to protect residential and small business customers through capping regulated electricity price increases to no more than CPI. The Tasmanian Government protected medium to large businesses exposed to high prices with the introduction of an annual energy rebate.

We also acted to ensure that Tasmanian households and businesses derive the benefits of Tasmania's investment in the state's hydroelectric generation system which traditionally delivered competitively priced and affordable electricity to Tasmania's homes and businesses by commissioning a review of the wholesale electricity framework.

Under the regulated wholesale pricing framework for Tasmania, the wholesale electricity prices for Tasmania are influenced by the Victorian price. Given high cost pressures coming from the Victorian market, the Tasmanian Government committed to investigating options to remove price volatility caused by factors external to the state. To this end, the government committed to break away from mainland electricity contract by setting Tasmanian wholesale contract prices based on Tasmanian electricity system costs.

This will allow Tasmanian customers to benefit from lower prices due to Tasmania's lower generation costs. Public consultation on the wholesale electricity framework has been undertaken and the Department of Treasury and Finance will provide the government with advice during 2020.

## 2.3 Manage Tasmania's Energy Security Risk Response Framework in response to COVID-19

As a result of the Coronavirus or COVID-19, there are unprecedented challenges facing Australian households and industries. Tasmanians can be assured the Government has taken action to safeguard Tasmania's energy supply as the COVID-19 pandemic continues to unfold.

The resilience of our energy supply sector to deal with COVID-19 has proven to be very strong.

Tasmania has a proven and defined framework in which to respond to COVID-19. The statutory role of Director of Energy Planning monitors energy supply developments across electricity, gas and liquid fuel sectors. The Director of Energy Planning continues to work with industry participants and other jurisdictions to monitor and prepare for any COVID-19 impacts.

The COAG Energy Council at its 20 March 2020 meeting agreed to a nationally coordinated approach to maintain energy supplies with new governance arrangements and mechanisms to support this coordinated approach. The Tasmanian Government will continue to work with all levels of government and industry to continually review events surrounding COVID-19 as they develop to ensure the Tasmanian Government's energy security framework, and its energy businesses, respond in an appropriate and timely manner.

Further evidence of our commitment to energy security was its response to one of the most significant energy security challenges in Tasmania's history. In 2015-16 the Tasmanian Government established the Tasmanian Energy Security Taskforce to undertake an independent energy security risk assessment for Tasmania. This resulted in the establishment of a set of institutional arrangements to monitor and respond to energy security events in Tasmania. As part of the Energy Security Risk Response Framework two statutory officers are responsible for monitoring and advising the Minister for Energy on electricity security matters.

The Tasmanian Economic Regulator is tasked with the ongoing monitoring and assessment of Hydro Tasmania's storages, and responsibility has been assigned to the Director of Energy Planning to ensure that if water levels in Hydro Tasmania's dams fall below certain levels, mitigating actions will be undertaken to plan for a recovery of adequate energy in storage.

Details of these arrangements can be found on the Tasmanian Economic Regulator's website [www.economicregulator.tas.gov.au/about-us/energy-security-monitor-and-assessor](http://www.economicregulator.tas.gov.au/about-us/energy-security-monitor-and-assessor)

The Tasmanian Government has taken significant steps to improve electricity security for Tasmanians through independent monitoring and assessment of hydro storages. Our goal is to future-proof Tasmanian energy security.

While Tasmania's energy generation is dominated by renewable energy, other energy sources play an important part of the state's energy mix. We recognise that gas supply and security is important for both industrial and domestic users in Tasmania.

The Tasmanian Government has acted to help improve the supply of gas to Tasmanian consumers at lowest cost, by influencing the national gas reform program and continues to work with Australian Government through the COAG Energy Council on a range of other

national reform measures that have been undertaken, or are still underway, to improve the operation of the gas market in Australia.

These initiatives are all designed to deliver better outcomes for customers.

The Office of Energy Planning within the Department of State Growth will continue this work through specific work streams relating to the gas sector. The Office of Energy Planning will also work directly with Tasmania's major industrial gas consumers through engagement with the Tasmanian Minerals and Energy Council to examine the key strategic issues and challenges facing the Tasmanian gas sector.

The Tasmanian Government will further enhance the state's Energy Security Framework through reviews of the *Energy Co-ordination and Planning Act 1995* and the *Petroleum Products Emergency Act 1994*. These reviews will commence in 2020.

#### 2.4 Monitor, evaluate and ensure the progressive rollout of advanced meters to Tasmanian households

In December 2017, electricity retailers began coordinating the progressive rollout of advanced meters to customers across the NEM. This includes Tasmania's largest electricity retailer, Aurora Energy. This new meter rollout is part of the national *Power of Choice* reforms which have the goal of empowering electricity customers by allowing them greater control and understanding of how they use their electricity with the use of advanced meter data.

Advanced meters open up opportunities for energy retailers to develop innovative products, which provide customers with better insights into their energy usage, making it easier for them to make more informed choices and save money.

All retailers of electricity to Tasmanian residential and small business customers take part in the rollout of advanced meters. Eventually all Tasmanian households will receive an advanced meter, which will allow electricity retailers to continue to offer energy users the powerful combination of advanced meter data and digital platforms, which provide greater insights into their energy use.

The government will continue to monitor the rollout of advanced meters across the state to ensure a smooth transition from the old analogue meters to the new advanced meters. In undertaking this monitoring, the government is mindful of the benefits that advanced meter functionalities, such as remote reading of meters, can bring to an electricity sector affected by COVID-19 as well as an economy seeking to recover and grow from the impacts of the pandemic.

Aurora Energy has now coordinated the installation of over 40 000 advanced meters across Tasmania. As the result of Aurora Energy's Pay As You Go (PAYG) system coming to the end of its useable life, customers on this product have been among the first Tasmanians to have their basic meters exchanged with an advanced meter. In line with the *2018 Tasmania-First Energy Policy* commitment that customers would not face any set up or establishment fees cost to transfer to the new system, more than 20 000 PAYG customers have now had an advanced meter installed and are using an alternative energy product.

## 2.5 Continued roll-out of on-farms energy initiative

The Tasmanian Government is taking action specifically for farmers to provide them with affordable and predictable power prices including supporting improved on-farm energy efficiency as part of the \$6.25 million Energy on Farms Policy. A key element of the policy was the \$750 000 On-farm Energy Audit and Capital Program which has been successfully delivered.

The objective of this program was to provide funding assistance to farm businesses to reduce their energy costs by supporting them to engage qualified professionals to review their farm energy use to identify savings and assist with the cost of implementing recommended energy efficiency measures. This funding has also made many farms more sustainable with the installation of energy efficient infrastructure like solar panels and solar photovoltaic systems and irrigation pumps. Due to the success of the program the government has allocated a further \$250 000 to the scheme specifically for dairy farmers.

Tasmanian Irrigation has progressed the scoping of the \$5.5 million Irrigation Renewable Energy Program with more detailed feasibility and technical assessments about to commence for potential mini and micro hydro systems in the irrigation network.

The state's electricity transmission and distribution network provider, TasNetworks has implemented the emPOWERing Farms project, which is designed to help TasNetworks understand agricultural customers' energy needs and explore opportunities to maximise the use of the network as customers increasingly invest in new technology. TasNetworks has been working with its customers and key stakeholders in the farming community to better understand the key challenges in managing their energy usage. Using a co-design approach TasNetworks is working with the farming community to develop innovative solutions that deliver the best outcomes for all customers.

The government also established a Farm Energy Advocacy Service within Aurora Energy in May 2018. The Aurora Farm Energy Advocate service provides a crucial role in providing support for Tasmanian farmers to ensure they are guided with opportunities to manage their energy use better.

## 2.6 Continue support for energy efficiency programs

Improving energy efficiency is one of the most cost-effective ways for households to take control of their energy use, reduce their energy bills improve their health and help take action to combat climate change. Improved energy efficiency also increases productivity for businesses.

The Tasmanian Government will continue the state's highly successful Energy Saver Loan and Subsidy Program, run in conjunction with Aurora Energy and No Interest Loans (NILS) Tasmania. As part of its COVID-19 response, the government will provide an extra \$1 million increase the provisions of NILS. The increase in funding will enable further loans to be provided to healthcare card receipts.

The NILS program provides a significant subsidy of up to 50 per cent toward the cost to purchase new energy efficient appliances in conjunction with the no-interest loans scheme.

The government has committed to contribute to funding for the program over the next four years. Through the continued operation of the Energy Saver Loan and Subsidy program the government will continue to help low income households lower their electricity bills by helping them invest in energy efficiency products for their homes.

The Tasmanian Government has also taken action with a range of targeted schemes to help Tasmanians improve their energy efficiency, and reduce cost of living pressures. These schemes include:

- Power\$mart Homes, a new \$850 000 state-wide program to help low-income Tasmanian households save money on their power bills, stay warm in winter, and reduce their greenhouse gas emissions. Participating households receive a range of free high-quality energy efficiency upgrades and free expert energy efficiency advice.
- Power\$mart Businesses, providing support for Tasmanian small and medium-sized businesses, through co-funded energy efficiency audits, to identify opportunities to improve energy efficiency, and to reduce their power bills and emissions.
- The Tasmanian Energy Efficiency Loan Scheme (TEELS), helping to reduce the cost of living pressures on Tasmanians by improving the energy efficiency of households. The scheme was set up to enable residential and small business customers to access interest-free loans to purchase energy efficiency products. TEELS provided loans valued at \$36.92million to approximately 4 500 customers.

## 2.7 Empower consumers through influencing the National Energy Policy agenda

Technological advances, including digitalisation, are changing Australia's energy markets.

Increasing digitalisation will facilitate more advanced customer engagement in energy markets and the development of new energy related products and services. Enabling customers to access their energy data is key in allowing customers the greatest choice of energy deals to find the best savings and deals.

The advent of new non-traditional energy products requires a response by governments to ensure that consumers benefit from new energy products, while at the same time ensuring that there are appropriate consumer protection measures in place.

In line with the growth of technology and customer empowerment, the Tasmanian Government has advocated to COAG's Energy Council for the implementation of the regulatory 'sandboxing' framework that can allow for the testing of innovative business models such as peer-to-peer trading.

On 26 March 2020, the Australian Energy Market Commission (AEMC) released their final report with its advice on rules required to implement regulatory sandbox arrangements in the national electricity and gas markets.

# Priority 3: Growing the economy and providing jobs

## KEY TARGETS

- Grow Tasmania’s renewable energy ‘brand’ nationally and globally.
- Attract new load and energy intensive industries to Tasmania.
- Create thousands of new jobs and realise up to \$7 billion of new investment in the renewables sector by 2030.

## Objectives

Continuing our strategy of utilising renewable energy as key economic driver that benefits all Tasmanian’s through job creation, investment and economic growth is a key priority for the Tasmanian Government. The government will act to ensure that Tasmanians can get the skills and training they need to take advantage of the employment opportunities that Tasmania’s expanding renewable energy sector will provide. The government will also leverage Tasmania’s 100 per cent renewables status and continue to promote and develop Tasmania’s renewable energy ‘brand’ both nationally and globally.

## Actions

### 3.1 Establish ‘Renewables Tasmania’ to promote and develop Tasmania’s renewable energy advantage

Renewable energy is one Tasmania’s greatest advantages and will be a key economic driver in Tasmania’s future. Tasmania’s renewable energy sector is currently undergoing a period of unprecedented expansion and growth. In addition to nationally significant projects such as Project Marinus and Battery of the Nation, there has been a major expansion in wind farm investment, as well as opportunities to develop a renewable hydrogen industry in Tasmania.

There are also significant opportunities to develop the state’s emerging biomass and ocean sectors.

Collectively these projects represent billions of dollars in potential investment and local economic growth, as well as thousands of jobs for future Tasmanians. This requires a coordinated strategic approach to facilitate growth and investment in the sector. In recognition of this the government will establish Renewables Tasmania to better plan, coordinate and promote the development of renewable energy in Tasmania.

Renewables Tasmania will draw on existing resources from within the Department of State Growth’s Office of Energy Planning and the Major Energy Projects Unit and will work with key stakeholders to drive the government’s renewable energy policy agenda. Renewables Tasmania will also deliver efficient, transparent regulation of the Tasmanian energy sector,

oversight of energy security under the Risk Response Framework, and support the Tasmanian Government in influencing national energy policy.

### 3.2 Develop a new load growth attraction strategy for Tasmania

Tasmania offers a strong cost-competitive case for energy intensive industries wishing to establish themselves in an environmentally sustainable location. Globally, businesses are increasingly seeking to establish their environmental credentials through operating in a low emissions or carbon-neutral environment. Tasmania is well on target to achieve the government's goal of becoming 100 per cent self-sufficient in renewable energy generation by 2022. This represents a significant competitive advantage for Tasmania in seeking to attract energy intensive industries for whom sustainability is a key requirement.

Tasmania has a long history of major industrial development powered by renewable energy and there are major opportunities for the establishment of jobs-rich, large-scale, energy-intensive enterprises in the state. In particular, renewable hydrogen production presents a key load growth opportunity. The Office of the Coordinator-General and the Department of State Growth are actively promoting these opportunities through direct engagement with potential investors and through the promotion of energy investment opportunities nationally and globally. As Tasmania's renewable generation capacity continues to expand, attracting major new load to the state is a key action for government.

### 3.3 Continue to promote Tasmania as a premier investment destination for businesses wanting low cost, reliable and clean energy.

Tasmania has a natural competitive advantage in renewable energy with its proven hydro and wind power generation, and its emerging ocean, geothermal and biomass resources.

The state also has significant renewable energy research, industry and government knowledge and capabilities, as well as high quality industrial precincts available for potential investors. The development of Tasmania's 'Supporting Renewable Developments' policy framework will also provide investors with a clear framework to facilitate the development of renewable energy projects in Tasmania's three Renewable Energy Zones.

By 2022 Tasmania will have become one of the few jurisdictions in the world to be 100 per cent self-sufficient in renewables. This represents a significant branding opportunity for major energy users seeking to achieve sustainability targets and lower their emission profiles through the use of renewable energy. Working with Hydro Tasmania, the Tasmanian Climate Change Office, the Department of State Growth and the Tasmanian community, the government will further develop and promote the Tasmanian energy brand as a model for innovation and sustainability.

The government through Brand Tasmania will highlight this milestone achievement through a major public campaign that highlights Tasmania's leadership and innovation in renewable energy generation. Renewable energy opportunity in Tasmania will be a key strategic focus of future trade missions supported by a targeted renewable energy investment strategy.

Tasmania has a world class wind resource and Tasmania's wind farm development potential is significant. In addition to the existing wind farms operating at Musselroe, Bluff Point and Studland Bay, there are two new wind farms at Cattle Hill in the Central Plateau and Granville Harbour on the west coast. Both these new wind farms have started the commissioning phase.

These two new wind farms represent more than \$580 million in investment and will provide 564 MW of capacity. There are 10 more renewable projects, predominately wind, at various stages of planning across the North, North-West, North-East and Central Highlands. The new projects have the potential to provide billions of dollars of regional investment and significant construction and ongoing employment.

Increased solar generation is another potential growth area. Support for solar systems has been a focus of the Tasmanian Government. Through programs such as the Tasmanian Energy Efficiency Loan Scheme (TEELS), the government has promoted the uptake of solar systems by a wide range of Tasmanian consumers. The number of households installing photovoltaic generation units has increased year on year and the uptake of solar by Tasmanians continues to grow. There are also proposals for two solar farms in the North of the state. Solar is one of the main sources of renewable energy across the world and despite hydro and wind generation being historically more common sources of power in Tasmania, the government welcomes all forms of renewable energy technology and will embrace options for solar projects as it builds towards the Tasmanian Renewable Energy Target in 2040.

The Tasmanian Government will continue to promote and support continued investment in all forms of renewable energy in Tasmania, whether wind, solar or other types of renewable generation. In particular the Tasmanian Government will continue to work with the Australian Government to progress Project Marinus. The completion of Project Marinus would unlock significant investment in new wind generation projects should the project proceed.

### 3.4 Skills Tasmania rollout of the Energising Tasmania skills and training initiative

The Tasmanian Government, in partnership with the Australian Government, is deliver a \$17 million skills and training initiative, Energising Tasmania, to boost Tasmania's renewable energy sector. Tasmania already has access to a highly skilled and innovative workforce in its renewable energy and related industries. Energising Tasmania will build up and expand the skilled workforce that the future will require as we implement our major energy initiatives.

Managed by Skills Tasmania, Energising Tasmania will provide training in major energy development related priority skills needs areas such as engineering, project management, civil construction and trades. Key elements of the program include:

- a. a new training grants fund to deliver up to 2500 fully subsidised training places in areas of identified skills need and provide up to \$1000 per learner to assist with non-tuition fee costs, such as training materials
- b. a new training market development fund to support capacity building of training providers, including trainer recruitment, upskilling trainers, supporting trainers to relocate, as well as developing courses and delivery methods that meet the needs of industry



- c. a new workforce development fund to deliver an industry-led workforce development plan to inform and drive priority training and undertake activities identified in the plan that support necessary workforce development, and
- d. a new industry advisory group dedicated to building the skills needed to support the Battery of the Nation initiative and more broadly the renewable energy and related sectors that will engage with employers and registered training organisations and support the development of the workforce plan and implementation of activities identified in the plan.

*Energising Tasmania* will provide a Tasmanian workforce better equipped with the skills necessary to build Tasmania's capability in priority areas needed to support the continued growth of Tasmania's renewable energy sector.

### 3.5 Maximise renewable energy development opportunities for Antarctic nations under the Antarctic Gateway Strategy

More than 42 nations operate seasonal or year-round research stations in Antarctica. Currently these bases are almost entirely dependent on the burning of fossil fuels for electricity. Significant opportunities exist in Antarctica to install renewable energy systems to replace or supplement the current dependence on fossil fuels.

As Antarctic nations seek clean energy solutions, wind and solar systems are currently in use and being trialled by a number of countries, and there are also significant opportunities for the development of hydrogen-based energy systems.

Tasmania is recognised around the world as a centre of international Antarctic science, logistics, operational support and diplomacy, and increasingly as a hub for renewable energy generation and innovation. Tasmanian businesses are already working in the sector providing a number of nations operating in Antarctica with a multitude of cold-climate products and specialised manufacturing and technical services.

In this context, the Blue Economy CRC that is exploring the potential for deploying innovative offshore infrastructure powered by sustainable, affordable renewable energy and hydrogen can also play a role in Australia's Antarctic region.

Helping Tasmanian businesses to grow their capabilities in the Antarctic sector is a key goal of the Tasmanian Government's *Antarctic Gateway Strategy*.

The Department of State Growth will work with Tasmania's Antarctic and energy business sectors to capitalise on the major economic opportunity presented by Antarctic nation's clear intention to replace fossil fuel based energy systems with clean renewable energy.

# Working with stakeholders

In implementing the Tasmanian Renewable Energy Action Plan the Tasmanian Government will work with a range of stakeholders including the Australian and state and territory governments, industry, research organisations and consumer and community groups.

At the national policy-making level through bodies such as the COAG Energy Council, we are working to influence national energy policy initiatives such as the development of a National Energy Strategy, and with national market bodies like AEMO to finalise an Integrated Systems Plan for the nation.

The Tasmanian Renewable Energy Action Plan will deliver low-cost, secure, reliable, and renewable energy and maintain downward pressure on energy prices throughout the NEM and therefore complements national energy policy settings.

## Appendix A

Priority 1: Transforming Tasmania into a global renewable energy powerhouse	Priority 2: Making energy work for the Tasmanian community	Priority 3: Growing the economy and providing jobs
<b>Targets</b>	<b>Targets</b>	<b>Targets</b>
<ul style="list-style-type: none"> <li>• By 2022 Tasmania will be 100 per cent self-sufficient in renewable electricity generation.</li> <li>• By 2040 we will double our renewable generation with a target of 200 per cent of our current needs.</li> <li>• From 2030 Tasmania is a producer and exporter of renewable hydrogen.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure regulated electricity prices remain affordable with the target to achieve the lowest regulated electricity prices in the NEM by 2022.</li> <li>• Maintain and further strengthen Tasmania’s energy security framework.</li> <li>• Ensure Tasmanian customers have the tools and information required to manage their electricity use, lower their electricity bills and access new products and services.</li> </ul>	<ul style="list-style-type: none"> <li>• Grow Tasmania’s renewable energy ‘brand’ nationally and globally.</li> <li>• Attract new load and energy intensive industries to Tasmania.</li> <li>• Create thousands of new jobs and realise up to \$7 billion of new investment in the renewables sector by 2030.</li> </ul>
<b>Actions</b>	<b>Actions</b>	<b>Actions</b>
<ol style="list-style-type: none"> <li>1. Introduce a Tasmanian Renewable Energy Target to double our renewable energy production to meet 200 per cent of our current electricity needs.</li> </ol>	<ol style="list-style-type: none"> <li>1. Supporting Customers during COVID-19.</li> </ol>	<ol style="list-style-type: none"> <li>1. Establish ‘Renewables Tasmania’ to promote and develop Tasmania’s renewable energy advantage.</li> </ol>
<ol style="list-style-type: none"> <li>2. Continue to progress Project Marinus and Battery of the Nation.</li> </ol>	<ol style="list-style-type: none"> <li>2. Establish a pricing framework that results in affordable electricity prices for Tasmanian consumers.</li> </ol>	<ol style="list-style-type: none"> <li>2. Develop a new load growth attraction strategy for Tasmania.</li> </ol>

<b>3.</b> Implementation of Tasmanian Renewable Hydrogen Action Plan.	<b>3.</b> Manage Tasmania’s Energy Security Risk Response Framework in response to COVID-19.	<b>3.</b> Continue to promote Tasmania as a premier investment destination for businesses wanting low cost, reliable and clean energy.
<b>4.</b> Undertake community a consultation on an ambitious net zero emissions target.	<b>4.</b> Monitor, evaluate and ensure the progressive rollout of advanced meters to Tasmanian households.	<b>4.</b> Skills Tasmania rollout of Energising Tasmania skills and training initiative.
<b>5.</b> Scoping study for the development of a Renewable Energy Centre of Excellence.	<b>5.</b> Continued rollout of on-farms energy initiatives.	<b>5.</b> Maximise renewable energy development opportunities for Antarctic nations under the Antarctic Gateway Strategy.
<b>6.</b> Develop options to support bioenergy.	<b>6.</b> Continue support for energy efficiency programs.	
<b>7.</b> Develop a Tasmanian policy framework to coordinate the renewable energy growth required to achieve the Tasmanian Renewable Energy Targets and to support Tasmanian major energy projects (the ‘Renewable Energy Coordination Framework’).	<b>7.</b> Empower consumers through influencing the National Energy Policy agenda.	
<b>8.</b> Transport Industry Emissions Pathway.		



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