Action #	Action	Lead agency	Proposed Timeframe	Status	Comments
Pilla	ar 1 - Explore the opportunities for usi	ing locally prod	uced renev	wable l	hydrogen in Tasmania and for export
1.1	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 or barges).	State Growth (support from the Tasmanian Climate Change Office)	End June 2021		A preliminary investigation was undertaken prior to comm Tasmanian Renewable Hydrogen Funding Program. A more undertaken, with a draft investigation report expected to b As a part of the 2020-21 Budget, the Tasmanian Governme over three years, and set a target for its Government vehic by 2030. This target includes battery electric, plug-in hybrid The Tasmanian Government has also tasked Metro Tasmar Tasmania (both in the south and north of Tasmania), to be years. This will be funded through the 2021-22 Tasmanian
1.2	Investigate optimised deployment and use of hydrogen refuelling infrastructure, with the intent of promoting open access where practical, to best facilitate industry development.	State Growth (support from the Tasmanian Climate Change Office)	End June 2021		This investigation will be aligned with existing work current Tasmanian Climate Change Office for electric vehicles. The completion of Action 1.1 and Action 1.3 will be used to dev rollout strategy. As a part of the 2020-21 Budget, the Tasmanian Governme over three years, and set a target for its Government vehic by 2030. This target includes battery electric, plug-in hybrid The Tasmanian Government has also tasked Metro Tasmar Tasmania (both in the south and north of Tasmania), to be years. This will be funded through the 2021-22 Tasmanian
1.3	Explore opportunities to trial hydrogen fuel cell electric vehicles within government fleets to gain first-hand experience of the technology and act as a potential catalyst for broader uptake across the private sector.	State Growth	End June 2021		A preliminary investigation was undertaken prior to commu Tasmanian Renewable Hydrogen Industry Development Fu assessment will now be undertaken, with a draft investigat completed by March 2021. As a part of the 2020-21 Budget, the Tasmanian Governme over three years, and set a target for its Government vehic by 2030. This target includes battery electric, plug-in hybrid
1.4	Work with the incumbent natural gas distribution network infrastructure owner to explore opportunities for hydrogen blending at 10 per cent and to investigate potential trials of higher hydrogen blends in Tasmania's hydrogen compatible gas distribution networks.	State Growth	End June 2022		The Department of State Growth engaged with Enwave in Plan, and will re-commence discussions before the end of 2
1.5	Hydro Tasmania will investigate the production and use of renewable hydrogen as a component of its hybrid energy systems on King and Flinders Island, and for incorporation into its hybrid energy solutions services.	Hydro Tasmania	November 2020		Hydro Tasmania has prepared a draft report outlining the only hydrogen in its hybrid energy systems on King and Flinders. The report has identified that hydrogen at small scale on the challenging, with negative operational returns even if initia Entura, are discussing Hydrogen's potential in renewable o

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mencement of the recent ore detailed assessment will now be b be completed by March 2021.

nent has committed \$2.3 million nicle fleet to be 100 per cent electric orid, and hydrogen vehicles.

ania to trial zero emissions buses in be undertaken within the next two n Budget.

ently being undertaken by the he data collected during the levelop a hydrogen refuelling station

nent has committed \$2.3 million nicle fleet to be 100 per cent electric orid, and hydrogen vehicles.

ania to trial zero emissions buses in be undertaken within the next two n Budget.

mencement of the recent Funding Program. A more detailed ation report expected to be

nent has committed \$2.3 million nicle fleet to be 100 per cent electric orid, and hydrogen vehicles.

in the development of the Action of 2020.

e opportunities for the use of ers Island.

the islands is economically tial capital outlay was fully funded. e off grid micro-grids with clients.

Action #	Action	Lead agency	Proposed Timeframe	Status	Comments
1.6	Work with Tasmania's Antarctic and energy business sectors to investigate the opportunities for hydrogen to supply power and fuel requirements in Antarctica.	State Growth	December 2021		State Growth has commenced discussions with the Austra the opportunities for hydrogen use in Antarctica.
1.7	Investigate industrial applications of Tasmanian renewable hydrogen, including opportunities for the use of 'green' ammonia and related products, derived from renewable hydrogen, for use in the Tasmanian agricultural sector.	State Growth	End December 2021		A preliminary investigation was undertaken prior to comm Tasmanian Renewable Hydrogen Industry Development Fu assessment will now be undertaken, with a draft investigat completed by March 2021. Findings from the feasibility studies, that received funding Program, will also inform this work. Findings from these fe before December 2021.
1.8	Investigate opportunities for export of renewable hydrogen from identified sites, including the Bell Bay Advanced Manufacturing Zone and in the north west coast region.	State Growth	Ongoing		The Department of State Growth and Office of the Coordin work with key infrastructure providers and proponents to hydrogen production and export. This includes participating in the National Hydrogen Infrast completed as a part of the National Hydrogen Strategy imp Government will also support Tasmanian applicants to dev the Australian Government's support for clean technologie Investment Roadmap.

Action #	Action	Lead agency	Proposed Timeframe	Status	Comments					
	Pillar 2 - Provide financial support for renewable hydrogen projects for export and domestic use, and continue attraction activities including with international trade partners									
2.1	Tasmania's Coordinator-General will continue its investment attraction and industry development work, including with prominent international proponents and consortia, to facilitate investment in renewable hydrogen production for export and domestic use.	Office of the Coordinator-General	Ongoing		The Office of the Coordinator-General is actively working w including prominent international proponents and consorti renewable hydrogen production for export and domestic us Following the completion of the Tasmanian Renewable Hyd Funding Program, the Office of the Coordinator-General wi proponents to advance their feasibility studies. The <u>Tasmanian Renewable Hydrogen Prospectus</u> released k General in late 2019, continues to be a key part of the inves development work.					
2.2	Continue to foster international partnerships with governments and businesses in countries seeking to import renewable hydrogen, including Japan, South Korea and China, and to strengthen relationships through facilitating and attending trade delegations.	Office of the Coordinator-General	Ongoing		The Office of the Coordinator-General has actively worked government and businesses, within Australia and internatio This work is ongoing. While COVID-19 restrictions have prevented physical travel assist and engage extensively with potential proponents via platforms to market Tasmania's credentials and opportunit					

ralian Antarctic Division to explore

mencement of the recent Funding Program. A more detailed ation report expected to be

ng support under our Funding feasibility studies are anticipated

linator-General will continue to to investigate the opportunities for

astructure Assessment work, to be nplementation. The Tasmanian evelop 'hydrogen hubs', as a part of gies under its Technology

ue investment

with a range of proponents, rtia, to facilitate investment in use.

ydrogen Industry Development will also work with all successful

by the Office of the Coordinatorestment attraction and industry

d to build relationships with tionally.

el in 2020, the Office continues to via a range of digital and online nities for green hydrogen.

Action #	Action	Lead agency	Proposed Timeframe	Status	Comments
2.3	Industrial precincts in Tasmania, in particular the Bell Bay Advanced Manufacturing Zone and in the north west coast region, will continue to be promoted as prime hydrogen hub locations.	Office of the Coordinator- General	Ongoing		The Office of the Coordinator-General has, and continues t Manufacturing Zone, and other industrial zones, as an idea This has included promotion of Bell Bay in the Coordinator as well as holding delegations in the Zone. State Growth is aware that Tasmanian industry participant Regional Hydrogen Technology Cluster grant program, with
2.4	Deliver a comprehensive \$50 million package of renewable hydrogen support measures over 10 years through a competitive Expression of Interest (EOI) process, commencing in the second quarter of 2020.	State Growth	Stage 1 completed. Ongoing		expected to be announced before December 2020. The initial Funding Program has concluded, with support for 17 November 2020. See <u>here</u> for further information. Once a detailed hydrogen demand study for Tasmania in co program will be designed. This demand study is expected to
2.5	Work collaboratively with supportive local governments and representative organisations to facilitate renewable hydrogen development.	State Growth	Ongoing		The Tasmanian Government is working with local governm develop a Tasmanian renewable hydrogen industry. State Growth is developing a Tasmanian Renewable Hydrog for knowledge sharing and collaboration between industry will be publicised soon.

Action #	Action	Lead agency	Proposed Timeframe	Status	Comments
Pill	ar 3 - Ensure a robust and supportive i	egulatory fram	ework and	lasses	s supporting infrastructure
3.1	Continue progressing the Land Use Planning and Approvals Amendment (Major Projects) Bill 2018. The Bill will amend the Land Use Planning and Approvals Act 1993 to introduce a new single assessment process for major projects.	Department of Justice	September 2020		Completed. The Bill has passed through both houses of Parliament on 2 Royal Assent on 13 October 2020.
3.2	Review state-based legislation and regulations that are relevant to the hydrogen industry, particularly in regard to safety, and participate in national regulatory review and reform processes implemented under the National Hydrogen Strategy.	Department of State Growth	Nov 2021		State Growth is coordinating the review of legislation with agencies as it relates to hydrogen. It is currently undertakin and is expecting advice from a national review of energy le State Growth has engaged with other Australian jurisdictio regulatory review work programs, to work collaboratively v
3.3	Work collaboratively with other governments and industry to facilitate the development of a renewable hydrogen certification scheme that recognises and values Tasmania's renewable energy characteristics and sustainable water resources.	State Growth	Ongoing		Work is underway nationally to develop a national certifica As a part of this work, Hydro Tasmania is working with the proof-of-concept approach to verify that renewable electri provide certainty to investors that Tasmanian renewable electri verifiable.
3.4	Work collaboratively with national infrastructure assessments carried out under the National Hydrogen Strategy.	State Growth	End June 2022		Funding has been secured, but the National Hydrogen Proje infrastructure assessments, and work will begin this year.
3.5	Work with local infrastructure providers to assess infrastructure requirements associated with renewable hydrogen developments. This will include working with	Office of Coordinator General and State Growth	End June 2021		The Department of State Growth and the Office of the Coo continue to work with local infrastructure providers to asse

s to promote the Bell Bay Advanced eal location for a hydrogen hub. or-General's <u>Hydrogen Prospectus</u>,

nts have applied to the NERA ith the outcome of this program is

for four applicants announced on

completed, a future funding l to be completed by June 2021

ment and representative bodies to

rogen Industry Network as a forum ry and government. The first forum

24 September 2020, and received

th other Tasmanian Government king scoping work on this review, legislation.

tions in relation to their hydrogen y where possible.

ication scheme for hydrogen.

ne Clean Energy Regulator on a tricity produced in Tasmania will electricity is traceable and

oject Team, to carry out national

oordinator-General have, and ssess infrastructure requirements

Action #	Action	Lead agency	Proposed Timeframe	Status	Comments
	TasNetworks to assess the network requirements at identified sites including the Bell Bay Advanced Manufacturing Zone, and exploring options for minimising				for renewable hydrogen developments and to identify appropriate infrastruct support industry growth.
	network costs. Water requirements will be assessed in consultation with TasWater and TasIrrigation. Port requirements for export will be assessed in consultation				Assessing infrastructure requirements will also occur through a national asses expected to begin in 2021.
	with TasPorts.				Successful proponents for the Tasmanian Renewable Hydrogen Industry Deve Funding Program would likely undertake similar infrastructure work as a part feasibility analysis.
3.6	Establish a dedicated Renewable Hydrogen Development Unit within the Department of State Growth to support implementation of the Tasmanian Renewable Hydrogen Action Plan, and support Tasmania's contribution to implementation of the National Hydrogen Strategy.	State Growth	Budget Day 2020		The Department of State Growth has been allocated funding in the 2020-21 B provide the necessary staffing and project support necessary to implement th focus over the coming months will be recruiting additional resources to imple TRHAP and support the implementation of the National Hydrogen Strategy.

Action #	Action	Lead agency	Proposed Timeframe	Status	Comments					
Pill	Pillar 4 - Build community and industry awareness, develop skills, and support research and education									
4.1	Ensure nationally developed community education and awareness raising materials and programs related to hydrogen are relevant for, and made available to, the Tasmanian community.	State Growth	June 2022		Tasmania is leading the implementation of the community Action Items under the <u>National Hydrogen Strategy</u> (Action Work is anticipated to begin in early 2021 once the agreed to by other Australian jurisdictions.					
4.2	Facilitate the delivery of community education and awareness raising sessions related to renewable hydrogen.	State Growth	June 2022 End 2020 (initial)		A plan for Tasmanian community education and engageme outcome of the 2020-21 Tasmanian Budget, State Growth the necessary personnel to implement this plan. Tasmanian education and engagement will leverage the wo Growth to implement the community education and engag Hydrogen Strategy.					
4.3	Continue to facilitate industry stakeholder engagement, including through the delivery of an industry workshop in 2020 to advance the Tasmanian Renewable Hydrogen Action Plan.	State Growth	Ongoing		Industry stakeholder engagement in ongoing. The impact of COVID-19 in Tasmania, as well as the deliver Hydrogen Industry Development Funding Program (for pro delivery of industry workshops throughout much of 2020.					

opropriate infrastructure projects to ough a national assessment, drogen Industry Development acture work as a part of their ding in the 2020-21 Budget to ssary to implement the TRHAP. The al resources to implement the

ty education and engagement on Items 5.1 and 5.2). ed approach and funding is agreed

nent has been developed, and as an has commenced work to recruit

work being undertaken by State agement work under the National

ery of the Tasmanian Renewable robity issues), impacted upon the

Action #	Action	Lead agency	Proposed Timeframe	Status	Comments
					State Growth will establish a Tasmanian Renewable Hydro for industry and government to share information, collabo government to implement the TRHAP and develop a Tasm meeting of the Network is expected in December 2020.
4.4	Facilitate the implementation of the Australian Government funded \$17 million 'Energising Tasmania' initiative, to provide training in major energy development related priority skills needs areas such as engineering, project management, civil construction and trades.	State Growth	Under implementatio n		State Growth is implementing the Energising Tasmania init A main component of this is the Energising Tasmanian Trai subsidised training places to delivery nationally recognised of priority skills, needed to support energy developments is The Fund is now open, and will close 2:00pm on 30 June 20 information. The first iterations of two new funding programs which ref Agreement for Energising Tasmania are also open. The Energy and Infrastructure Training Market Development registered training organisations to increase training capace that respond to the needs of Tasmania's energy (and relat 2:00pm on 5 February 2021. See here for further informat The Energy and Infrastructure Workforce Development Fu organisations undertake projects and activities that are res of Tasmania's energy (and related) sectors. The Fund will of 2020. See here for further information. The Tasmanian Energy and Infrastructure Workforce Adviss established in June 2020. Consisting of key education, train TEIWAC provides advice to Government on the implement commitment. For further information regarding Energising Tasmania, pla
4.5	 The Blue Economy CRC, in collaboration with Government, will investigate: the use of hydrogen as a shipping fuel to support offshore aquaculture operations the use of hydrogen based renewable power systems to support offshore aquaculture operations opportunities to add value to hydrogen production by electrolysis by utilising the oxygen co-product in Tasmania's aquaculture industry 	Blue Economy CRC	January - June 2021		 The Blue Economy CRC is progressing a number of research its partners involving the development of hydrogen microg systems for offshore environments. Summaries of this research can be found at: https://blueeconomycrc.com.au/research/offshore-renew The Department of State Growth is a participant in the Blu support to the Blue Economy CRC, as requested. The Blue Economy CRC is investigating: Offshore renewable energy system technologies for the development of a hydrogen microgrid to support aquaculture operations as a potential market

rogen Industry Network as a forum porate, and help inform advice to manian hydrogen industry. The first nitiative. raining Fund, which provides fully ed qualifications to workers in areas s in Tasmania. 2021. See here for further eflect key outputs of the Project nent Fund aims to support acity and undertake other projects ated) sectors). The Fund will close ation. Fund aims to support eligible responsive to the workforce needs l close 2:00pm on 4 December visory Committee (TEIWAC) was aining and industry stakeholders, ntation of the Energising Tasmania please see <u>here</u>. rch and development projects with ogrid, storage solutions and control wable-energy-systems/ lue Economy CRC, and is providing or offshore, off grid applications ort offshore applications, including

Action #	Action	Lead agency	Proposed	Status	Comments
			Timeframe		
					 opportunities to add value to hydrogen production b oxygen co-product in the aquaculture industry
4.6	Support the University of Tasmania's ARC Industrial Transformation Training Centre funding application through a \$100 000 cash and in-kind contribution to support renewable hydrogen research.	University of Tasmania	Ongoing		The University of Tasmania was unsuccessful in its application However, State Growth is exploring other research funding undertake which would support the development of a rene Tasmania.
	КЕҮ				
	Project is on track				
	Project may be at risk of meeting deadlines if issues are not				
	addressed				
	Project is at risk to miss a scheduled completion date, may				
	be over budget or out of scope.				

n by electrolysis by utilising the

cation to this program.

ng opportunities that UTAS could enewable hydrogen industry in