



FTC #29: Application for referred project under the COVID-19
Recovery (Fast-track Consenting) Act 2020 – Stage 1 decision to 3
December 2020

Application 2020-28 - Kapuni Green Hydrogen Project

Date Submitted:	3 December 2020	Tracking #: 2020-B-07359		~?	5
Security Level	In-Confidence	MfE Priority:	Urger	nt	

	Action sought:	Response by:
To Hon David Parker, Minister for the Environment	Decision	TBA

Actions for Minister's	Return the signed briefing to MfE.
Office Staff	Send out attached letters (if agreed and signed).
Number of appendices and attachments	Titles of appendices: 1. Letters from the Minister for the Environment to relevant Ministers of the Crown.

Ministry for the Environment contacts

Position	Name	Cell phone	1 st contact
Principal Author	Jess Hollis		
Responsible Manager	Sara Clarke	s 9(2)(a)	✓
Director	Keita Kohere	s 9(2)(a)	

FTC #29: Application for referred projects under the COVID-19 Recovery (Fast-track Consenting) Act 2020 – Stage 1 decision to 3 December 2020

Key Messages

- We are seeking your decision on one application for referral of a project to an expert consenting panel under the COVID-19 Recovery (Fast-track Consenting) Act 2020 (the Act). The applicants are Hiringa Energy Limited and Ballance Agri-Nutrients Limited.
- 2. The application is for the 'Kapuni Green Hydrogen Project' to develop a renewable hydrogen hub at Kapuni, Taranaki. The project involves generation of renewable electricity from wind to provide baseload power to the existing Ballance Kapuni ammonia-urea manufacturing plant and to power the production of 'green' hydrogen from water via electrolysis. Excess power generated will be exported to the local distribution network.
- 3. The 'green' hydrogen that is produced will initially be used to produce ammonia and 'green' urea at the Ballance Kapuni plant and is proposed to transition over a 10-year period for use as a fuel for the transport sector (as the hydrogen market develops).
- 4. The project includes construction, installation and operation of four 230-metre-high wind turbines and associated electricity infrastructure, an electrolysis plant and hydrogen production infrastructure, and hydrogen storage and loadout facilities.
- 5. The application states that this will be the first project in New Zealand to couple wind generation integration with hydrogen production.
- 6. We have undertaken an initial (Stage 1) analysis of this application and recommend you progress to the next stage.
- 7. A summary of the analysis and our recommendation for the application is provided in Table A. You are the sole decision maker for this project as it is not in the Coastal Marine Area.
- 8. Table B indicates how applications we have received for referred projects under the Act are advancing through the fast-track process. Table C indicates progress of Listed Projects received by the Environmental Protection Authority. We will continue to monitor and report progress to you.

Action sought

9. Please indicate your decision on the recommendation for the application listed in Table A.

Signature

Sara Clarke Manager

Fast Track Consenting

Table A: Stage 1 initial assessment of project eligibility – projects where the Minister for the Environment is the only decision maker

Project to progress

				Assessment against the purpose of the Act							
			Is the Project	Economic	Effect on social and	Likelihood project will	Public benefit	Potential for			
		Project funding	ineligible for	benefits and	cultural wellbeing	progress faster under	[s19(d)]	significant adverse	Any other relevant		
Project details	Project description		referral?	costs for people	[s19(b)]	the Act	[575(2)]	environmental	matters	Recommendation	Decision
			[s18(3)]	or industries	[5.5(2)]	[s19(c)]		effects			
		•	[0.0(0)]	affected by		[5.5(5)]		[s19(e)]	[s19(f)]		
				Covid-19				1			
				[s19(a)]				0 1			
Application name	To develop a	Provincial Growth	The project is	The applicant	The project has the	The applicant	Based on the	The project has the	The application	a. agree to	Yes/No
	renewable hydrogen	Funding (PGF) has	not	estimates that:	potential for direct	considers that the fast-	information provided	potential for adverse	states that this will	progress the	
Kapuni Green	hub including	been received for the	disqualified	the project will	positive effects on the	track process is likely to	we consider the project	environmental	be the first project	Kapuni Green	
Hydrogen Project	generation of	project of s 9(2)(b)(ii)	from referral	provide an	social wellbeing of the	be faster than standard	may result in the	effects, including:	in New Zealand to	Hydrogen	
	renewable electricity	million.	as, based on	average of	community in the	RMA processes given	following public	 temporary 	combine wind	Project to Stage	
Applicant	for baseload power to		available	40 FTEs over an	short term by:	the nature of the	benefits:	construction	generation	2 of the process.	
	the Ballance Kapuni	s 9(2)(b)(ii)	information, it	18-month period	 creating additional 	project, and the potential	generating	effects including	integration with	The project	
Hiringa Energy	ammonia-urea		does not:	covering	employment and	for public notification	employment by the	from traffic and	hydrogen	warrants further	
Limited	manufacturing plant,		 include any 	engineering,	economic activity in	and Environment Court	creation of an	earthworks	production.	analysis	
("Hiringa") and	to produce green		prohibited	design and	a small rural area	appeal/s.	average of 40 FTEs	landscape and		because it has	
Ballance Agri-	hydrogen from water		activities	construction	 creating the 	4 7	over an 18-month	visual amenity	The applicant has	the potential to	
Nutrients Limited	via electrolysis and		 include land 	ongoing	potential for training	Feedback will be sought	period covering	effects of wind	provided details of	achieve the	
("Ballance")	provide excess power		returned	operation of the	opportunities	on the use of the Act or	engineering, design	turbines	engagement that	purpose of the	
	to the local distribution		under a	renewable	targeted at young	standard RMA	and construction	noise effects of	has taken place on	Act.	
Project location	network		Treaty	hydrogen hub	people during the	processes from South	providing	turbines	the project with		
			settlement	will support work	design and	Taranaki District and	infrastructure that will	particularly for	various	b. agree to seek	Yes/No
271 – 359 Kokiri	The resulting 'green'		occur in a	for over 150	construction	Taranaki Regional	contribute to	dwellings in close	Government	further	
Road, Kapuni,	hydrogen will be used		customary	existing staff and	phases,	Councils.	improving economic	proximity	Ministers during the	information from	
Taranaki (the "PKW	as follows:	It is also noted that	marine title	contractors at	showcasing		and employment	ecological effects	period from 2017 to	the applicant on	
Farm" - site for the	 initially 100% will be 	funding under the	area or	the Ballance	different	We note that	outcomes	due to the potential	2020. The	the timing of a	
wind turbines).	combined with	Infrastructure	protected	Kapuni site	opportunities in	developments involving	 assisting to improve 	for bird strike on	applicant has	Cultural Impact	
,	atmospheric	Reference Group	customary	direct economic	renewable energy	wind turbines tend to	environmental	the wind turbines	advised that	Assessment and	
309 Palmer Road,	nitrogen to produce	(IRG) 'Shovel Ready'	rights area	benefits for New	and green hydrogen	receive a high level of	outcomes for air	effects on cultural	feedback to date	existing	
Kapuni, Taranaki	ammonia and green	Infrastructure Projects	under the	Zealand include	production.	public interest, and the	quality by lowering	values	has been positive.	easement rights	
(the "Ballance	urea by the	fund has been	Marine and	the reduction in		wind turbines proposed	the level of	effects relating to		that may affect	
Kapuni Plant").	Ballance Kapuni	provisionally approved	Coastal	imported crude	The project may	are of a significant	emissions generated	the storage and	The Ministry of	the ability to	
	Plant	(as at August 2020)	Area	and fossil fuels,	create pressure/high	height.	from combustion of	use of a hazardous	Business,	undertake the	
The applicant is	 over a 10-year 	for the wider	(Takutai	and urea.	demand on housing		natural gas at the	substance.	Innovation and	project.	
proposing two	period a planned	development/establish	Moana) Act		during the		Ballance Kapuni	Substance.	Employment		
options for	transition to	ment of a nationwide	2011.		construction phase in		Plant	The applicant has	(MBIE) website	c. agree to seek	Yes/No
underground	approximately 90%	network of hydrogen-			the short term.		assisting to improve	provided details of	states that "Green	comment from:	
electricity cable	usage as a fuel for	fuelling stations.					environmental	mitigation measures	hydrogen has the	 Ministers 	
alignment between	the transport sector				The project may		outcomes for air	to address potential	potential to play a	listed in	
the PKW Farm and	as the hydrogen				adversely affect		quality and assisting	adverse effects and	significant role in	s21(6) of the	
the Ballance	transport market			/ }	residents living in		New Zealand's	has confirmed that	our energy system	Act	
Kapuni Plant, as	develops			CI	close proximity to the		efforts to mitigate	technical experts	and could play an	 Minister for 	
follows:	in support of the				turbines. These		climate change and	have completed a	important role in	Economic and	
	development of a				effects could be		transition more	range of necessary	decarbonising parts	Regional	
Option 1 - via 414	green hydrogen	_			assessed further by a		quickly to a low-	technical	of our economy".	Development	
Kokiri Road, 15	energy and				panel.		emissions economy	assessments. The	MBIE consulted the	 Minister for 	
Palmer Road and	transport hub for				l ·		(subject to a	applicant advises	public on green	Māori	
Kokiri Road legal	South Taranaki.	X			The applicant has		successful future	that none of the	hydrogen	Development	
road reserve.					indicated ongoing eng		transition to the use	environmental	challenges and	Minister of	
	Excess power		10		agement		of the green	assessments	opportunities, and	Energy and	
Option 2 – via	generated by the wind		I V.A		with Te Korowai		hydrogen as a fuel in	undertaken for the	the Government's	Resources	
unnumbered land	turbines during peak				o Ngāruahine Trust, N		the transport sector).	project conclude that	role, in September	Minister for	
on Palmer Road,	electricity production				gati Tu			the proposed	2019.	Rural	
Skeet Road legal	will be fed into the				and Ngati Manuhiakai,		Given that the project	activities will result in		Communities	
road reserve, 1101	local distribution				but provided		involves exporting	significant adverse	An internet search	Minister for	
Skeet Road and	network. This is				no specific details of		excess power to the	environmental	of information	Trade and	
1128 Skeet Road.	expected to be				the outcome or		local distribution	effects.	relating to green	Export	
	approximately				direction of this		network, comment	- C.100.0.	hydrogen	Growth.	
	11.9MW.				engagement or any		should be sought from		production in New	Slowar.	
		l .	l .	1		l .	I Should be sought from	I.	I .		

				Assessment against the purpose of the Act							
Project details	Project description	Project funding	Is the Project ineligible for referral? [s18(3)]	Economic benefits and costs for people or industries affected by Covid-19 [s19(a)]	Effect on social and cultural wellbeing [s19(b)]	Likelihood project will progress faster under the Act [s19(c)]	Public benefit [s19(d)]	Potential for significant adverse environmental effects [s19(e)]	Any other relevant matters [s19(f)]	Recommendation	Decision
	The project works involve the following activities: installation of four wind turbines with up to 24 MW of generation capacity on the PKW farm. The wind turbines will have a hub height of approximately 149metres and a rotor diameter of 162metres, resulting in an overall maximum height of approximately 230metres. construction and installation of electrolysis plant and hydrogen production infrastructure within Ballance's Kapuni Plant site. construction and installation of hydrogen storage, loadout and refueling facilities within the Balance Kapuni Plant site. installation of underground power cables and associated buildings and structures to convey electricity from the PKW farm to the Balance Kapuni Plant.				assessment of effects on cultural wellbeing. It is anticipated that cultural effects associated with the placement of the wind turbines have potential to be significant. Ngāruahine were recognised under their Treaty settlement as kaitaki over the area which includes the project site. Additionally, tributaries of Kapuni and Waiokura Streams cross the site and all are subject to statutory acknowledgements under the Ngāruahine Claims Settlement Act 2016. Therefore, it is considered appropriate to invite comment from Te Korowai o Ngāruahine Trust (the iwi authority), and Ngati Tu and Ngati Manuhiakai (the 2 relevant Ngāruahine hapū) at this referral stage.		Powerco at this referral stage (as the network utility provider who own and operate the 33KV network lines to which a connection is proposed).	We note that there is a 'High Pressure Gas and Liquid Petroleum Pipeline' shown as extending through Part Lot 1 DP 13121 in the Proposed South Taranaki District Plan maps. Details on any potential effects on the existing pipeline/s, including any consultation undertaken to date with the relevant utility provider/s, will be requested from the applicant. We note that the Minister does not require a full Assessment of Environmental Effects and supporting evidence to make a referral decision, and that an expert consenting panel will consider the significance of effects should the project be referred.	Zealand shows that there is some scepticism, including among academics, regarding the use of green hydrogen, primarily due to energy inefficiency concerns in the production process (which has direct implications for the economics of the technology). We anticipate there may be feedback on this from relevant Ministers.	d. agree to seek comments from relevant local authorities. e. agree to seek comments from the following other persons (as enabled under s21(3)): • Te Korowai o Ngāruahine Trust • Ngati Tu • Ngati Manuhiakai • Powerco	Yes/No Yes/No

Signed: