*6. Position title (if applicable)

Director

Introduction * 1. Name (first and last name) **Graeme Mills** * 2. Email Privacy of natural persons * 3. Is this an individual submission, or is it on behalf of a group or organisation? □Individual ⊠On behalf of a group or organisation * 4. Which group do you most identify with, or are representing? ☐ Iwi or hapū ☐ Electricity sector ☐ General public ☐ Community organisation ☐ Energy intensive and highly integrated industry ☐ Environmental ☐ Local government ☐ Large energy user ☐ Research institute / academia ☐ Oil and gas sector ☐ Transmission or distribution sector ☐ Biomass or geothermal sector ☐ Industry or industry advocates ☐ Consultant, financial services etc ☐ Central government agency ☐ Coal sector ○ Other (please specify) Wind Generation Consultant *5. Business name or organisation (if applicable) Roaring Ans Wind Power Itd

* 7. Important information about your submission (important to read)

The information provided in submissions will be used to inform the Ministry of Business, Innovation and Employment's (MBIE's) work on *Accelerating renewable energy and energy efficiency*.

We will upload the submissions we receive and publish them on our website. If your submission contains any sensitive information that you do not want published, please indicate this in your submission.

The Privacy Act 1993 applies to submissions. Any personal information you supply to MBIE in the course of making a submission will only be known by the team working on the *Accelerating* renewable energy and energy efficiency.

Submissions may be requested under the Official Information Act 1982. Submissions provided in confidence can usually be withheld. MBIE will consult with submitters when responding to requests under the Official Information Act 1982.

submission on the website?
⊠ Yes
□ No
* 8. Can we include your name?
⊠Yes
□No
* 9. Can we include your organisation (if submitting on behalf of an organisation)?
⊠Yes
□ No
10. All other personal information will not be proactively released, although it may need to be
released if required under the Official Information Act.
Please indicate if there is any other information you would like withheld.

11. [FOR INDIVIDUALS] Where are you locat	red?
☐ Northland / Te Tai Tokerau	☐ Tasman / Te Tai-o-Aorere
☐ Auckland / Tamaki-makau-rau	☐ Nelson / Whakatū
☐ Waikato	☐ Marlborough / Te Tauihu-o-te-waka
\square Bay of Plenty / Te Moana-a-Toi	☐ West Coast / Te Tai Poutini
☐ Gisborne / Te Tai Rāwhiti	☐ Canterbury / Waitaha
☐ Hawke's Bay / Te Matau-a-Māui	□ Otago / Ōtākou
☐ Taranaki	☐ Southland / Murihuku
☐ Manawatū-Whanganui	\square Outlying Islands, including Chatham Islands
\square Wellington / Te Whanga-nui-a-Tara	
12. [FOR ORGANISATIONS] In what region o	r regions does your organisation mostly operate?
☑ Northland / Te Tai Tokerau	☑ Wellington / Te Whanga-nui-a-Tara
☑ Auckland / Tamaki-makau-rau	☐ Tasman / Te Tai-o-Aorere
☑ Waikato	☐ Nelson / Whakatū
⊠ Bay of Plenty / Te Moana-a-Toi	☑ Marlborough / Te Tauihu-o-te-waka
⊠ Gisborne / Te Tai Rāwhiti	☐ West Coast / Te Tai Poutini
⊠ Hawke's Bay / Te Matau-a-Māui	☑ Canterbury / Waitaha
□ Taranaki	⊠ Otago / Ōtākou
	⊠ Southland / Murihuku
	☑ Outlying Islands, including Chatham Islands

Areas you wish to provide feedback on

Part A relates to process heat.

13.

The Accelerating renewable energy and energy efficiency discussion document examines a range of barriers and issues, and seeks feedback on a range of options. The document is divided in two parts:

- Part A: Encouraging greater energy efficiency and the uptake of renewable fuels in industry (process heat)
- Part B: Accelerating renewable electricity generation and infrastructure (renewable electricity generation)

Each part has multiple sections. You are invited to provide feedback and respond to questions in as many, or as few of the sections as you would like, depending on your interests.

	Please indicate which sections, if any, you would like to provide feedback on.
	☐ Section 1: Addressing information failures
	$\hfill \square$ Section 2: Developing markets for bioenergy and direct geothermal use
	\square Section 3: Innovating and building capability
	☐ Section 4: Phasing out fossil fuels in process heat
	\square Section 5: Boosting investment in renewable energy and energy efficiency technologies
	☐ Section 6: Cost recovery mechanisms
14	. Part B relates to renewable electricity generation.
	Please indicate which sections, if any, you would like to provide feedback on.
	\square Section 7: Enabling renewables uptake under the Resource Management Act 1991
	\square Section 8: Supporting renewable electricity generation investment
	$\hfill \square$ Section 9: Facilitating local and community engagement in renewable energy and energy efficiency
	\square Section 10: Connecting to the national grid
	☐ Section 11: Local network connections and trading arrangements

Section 1: Addressing information failures

This section explains the issues relating to information failures and asymmetries and seeks your views on options to:

- Require large energy users to publish Corporate Energy Transition Plans (including reporting emissions annually), and conduct energy audits every four years
- Develop an electrification information package for businesses looking to electrify process heat, and offer co-funded low-emissions heating feasibility studies for Energy Efficiency and Conservation Authority's (EECA's) business partners, and Provide benchmarking information for food processing industries.
- 15. Option 1.1 would require large energy users to report their emissions and energy use annually, publish Corporate Energy Transitions Plans and conduct energy audits every four years. Do you support this option? ☐ Yes - I fully support this option ☐ I support this option in part ☐ No - I do not support this option 16. Please explain your answer Which parts (set out in Table 3 of Section 1 in the discussion document) do you support? 17. ☐ Target group - companies with an annual energy spend of greater than \$2 million per annum ☐ Public reporting ☐ Government reporting ☐ Energy auditing ☐ Compliance 18. Please explain your answer

19. What public reporting requirements (listed in Table 3) should be disclosed? ☐ Annual corporate level energy use and emissions, split out by a range of source coal, gas, electricity and transport	s, including
\square energy efficiency actions taken that year	
☑ Plans to reduce emissions to 2030	
☐ Other (please specify)	
20. In your view, should businesses be expected to include transport energy and in these reporting requirements?	d emissions
☐ Yes	
□ No	
Please explain your answer	
21. For manufacturers: what will be the impact on your business to comply with	n the
requirements?	
☐ Some impact	
☐ Significant impact	
Please provide specific cost estimates if possible	
riedse provide specific cost estimates il possible	
22. Option 1.1. Suggests that requirements to publish Corporate Energy Transit	ion Plans
should apply to large energy users, and proposes defining large energy users as tho	se with an
annual energy spend (purchased) of greater than \$2 million per annum.	
Do you agree with this definition?	
□ Yes	
□ No	

ed no, please describe what in your view would be an appropriate threshold
gy users'.
ntial for unnecessary duplication under these proposals and the disclosures
E-Ministry for the Environment discussion document <u>Climate-related</u>
 Understanding your business risks and opportunities related to climate
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ntial for unnecessary duplication under these proposals and the disclosur E-Ministry for the Environment discussion document <u>Climate-related</u> — Understanding your business risks and opportunities related to climate

Section 1 - Option 1.2: Electrification information package and feasibility studies

The questions on this page relate to Option 1.2

Option 1.2 : Develop an electrification information package for businesses looking to electrify process heat, and offer EECA's business partners co-funded low-emission heating feasibility studies

25.	Do you support the proposal	to develop an electrification info	rmation package?
□ Yes			
□ No			
26.	Would an electrification infor	mation package be of use to you	r business?
□ Yes			
□ No			
27.	Do you support customised lo	w-emission heating feasibility st	udies?
□ Yes			
□ No			
28.	In your view, which of the cor	nponents should be scaled up an	d/or prioritised?
_0.		aled up	Prioritised
inform	rlv publishing ation on citv reliabilitv for ites		
about reliabi of elec	ing information wavs to increase litv and resilience trically- supplied and systems		
emissi feasibi	nding low- on heating lity studies for s business rs		
29. □ Yes □ No	Would a customised low-emis	ssion heating feasibility study be	of use to your business?

30.	Please describe any components other than those identified	l that could be included in ar
infor	mation package.	

Section 1 - Option 1.3: Provide benchmarking information for food processing industries

31.	Do you support benchmarking in the food processing sector?
☐ Yes	
□ No	
32.	Would benchmarking be suited to, and useful for, other industries, such as wood
process	sing?
□ No	
□ Yes	(please specify)
33.	Do you believe government should have a role in facilitating this or should it entirely be
led by i	industry?
☐ Gov	ernment should have a role
☐ Sho	uld be led entirely by industry
34.	Please explain your answer

Section 2: Developing markets for bioenergy and direct geothermal use

This section examines barriers to the use of woody biomass and direct geothermal for process heat and seeks your feedbacks on our options to:

- Develop a users' guide on application of the National Environmental Standards for Air Quality (NESAQ) to wood energy
- Facilitate development of bioenergy markets and industry clusters on a regional basis within Industry Transformation Plans, and
- Support recent initiatives underway to grow the bio-economy and support direct use of geothermal heat.

Guidance on Resource Management Act consenting for wood energy plants

35.	Do you agree that some councils have regional air quality rules that are barriers to wood
energy?	
☐ Stron	gly disagree
☐ Disag	ree
□ Neith	er agree nor disagree
☐ Agree	
☐ Stron	gly agree
36. energy.	Please provide examples of regional air quality rules that you see as barriers to wood
Please a	lso note which council's plan you are referring to.

37. Do you agree that a National Environmental Standards for Air Quality (NESAQ) users
guide on the development and operation of the wood energy facilities will help to reduce
regulatory barriers to the use of wood energy for process heat?
☐ Strongly disagree
☐ Disagree
☐ Neither agree nor disagree
☐ Agree
☐ Strongly agree
Please explain your answer
38. What do you consider a NESAQ users' guide should cover? Please provide an explanation if possible.
39. Please describe any other options that you consider would be more effective at reducing regulatory barriers to the use of wood energy for process heat.
40. In your opinion, what technical rules relating to wood energy would be better addressed
through the NESAQ than through the proposed users' guide (option 2.1)?

Section 2 - continued: Developing markets for bioenergy and direct geothermal use

Facilitating the development of bioenergy markets and industry clusters on a regional basis

41.	In your view, could the <i>Industry Transformation Plans</i> stimulate sufficient supply and
deman	d for bioenergy to achieve desired outcomes?
☐ Yes	
□ No	
42.	What other options are worth considering?
43.	Is Government best placed to provide market facilitation in bioenergy markets?
☐ Yes	6 ,
□ No	
44.	How could Government best facilitate bioenergy markets?
Please	be as specific as possible, giving examples.
45.	In your view, how can government best support direct use of geothermal heat?
46.	What other options are worth considering?

Section 3: Innovating and building capability

This section explains the issues around technology risk for process heat users, and the lack of viable low carbon solutions for emissions-intensive and highly integrated (EIHI) industries. It seeks your views on options to:

- Expand Energy Efficiency and Conservation Authority's (EECA's) grants for technology diffusion and capability-building, and
- Collaborate with EIHI industries to foster knowledge sharing, develop sectoral low-carbon roadmaps and build capability for the future using a Just Transitions approach.

Technology diffusion and capability-building

47. Do you agree that <u>de-risking</u> commercially viable low-emission technology should be a		
focus of government support on process heat?		
☐ Strongly disagree		
☐ Disagree		
☐ Neither agree nor disagree		
☐ Agree		
☐ Strongly agree		
Please explain your answer		
48. Do you agree that <u>diffusing</u> commercially viable low-emission technology should be a		
focus of government support on process heat?		
☐ Strongly disagree		
☐ Disagree		
☐ Neither agree nor disagree		
□ Agree		
☐ Strongly agree		
Please explain your answer		

Section 3 (continued): Innovating and building capability

On this page, we are seeking your feedback on industrial innovation and transitioning to a low-carbon future.

53.	For emissions-intensive and highly integrated (EIHI) stakeholders: What are your views on
our pro	pposal to collaborate to develop low-carbon roadmaps?
54.	Would low-carbon roadmaps assist in identifying feasible technological pathways for
decarb	onisation?
☐ Yes	
□ No	
Please	expand on your answer
55.	What are the most important issues that would benefit from a partnership and co-design
approa	
56.	What, in your view, is the scale of resourcing required to make this initiative successful?

Section 4: Phasing out fossil fuels in process heat

This section explains the issues around long-lived process heat investments and emissions lock-in, and seeks your views on options to:

- Deter the development of any new coal-fired process heat, through a ban on new coal-fired process heat equipment for low and medium temperature requirements, and
- Require existing coal-fired process heat equipment supplying end-use temperature requirements below 100°C to be phased out by 2030.

Deterring the development of any new fossil fuel process heat

57.	Do you agree with the proposal to ban new coal-fired boilers for low and medium
tempe	erature requirements?
☐ Stro	ongly disagree
☐ Disa	agree
□ Nei	ther agree nor disagree
☐ Agr	ee
☐ Stro	ongly agree
58.	Do you agree with the proposal to require existing coal-fired process heat equipment for
end-us	se temperature requirements below 100 degrees Celsius to be phased out by 2030?
☐ Stro	ongly disagree
☐ Disa	agree
□ Nei	ther agree nor disagree
☐ Agr	ee
☐ Stro	ongly agree
59.	Referring to Question 57 - is this ambitious or is it not doing enough?
☐ Aml	bitious
□ Not	doing enough
Please	explain your answer

60. For manufacturers: what would be the likely impacts of	or compliance costs on your business
of a ban on new coal-fired process heat equipment?	
61. For manufacturers: what would be the likely impacts of	or compliance costs on your husiness
of requiring existing coal-fired process heat equipment supplying	
below 100°C to be phased out by 2030.	
62. Could the Corporate Energy Transition Plans (Option 1	1.1) help to design a more informed
phase out of fossil fuels in process heat?	
☐ Yes	
□ No	
Please explain your answer	
63. Would a timetabled phase out of fossil fuels in proces	s heat be necessary alongside the
Corporate Energy Transition Plans?	
☐ Yes	
□ No	
Please explain your answer	

64.	In your view, could national direction under the Resource Management Act (RMA) be an
effectiv	ve tool to support clean and low greenhouse gas-emitting methods of industrial production
☐ Yes	
□ No	
65.	If yes, how?
66.	In your view, could adoption of best available technologies be introduced via a mechanism
other t	han the RMA?
\square Yes	
\square No	
Please 6	explain your answer
other tl ☐ Yes ☐ No	han the RMA?

Section 5: Boosting investment in energy efficiency and renewable energy technologies

This section explains the issues relating to underinvestment in energy efficiency and renewable energy technologies. It seeks your views on whether the Government should be considering these issues and how these issues could be addressed.

67. Do you agree that complementary measures to the New Zealand Emissions Trading Scheme (NZ-ETS) should be considered to accelerate the uptake of cost-effective clean energy projects?
\square Strongly disagree
☐ Disagree
☐ Neither agree nor disagree
☐ Agree
☐ Strongly agree
68. Would you favour regulation, financial incentives or both? ☐ Regulation
☐ Financial incentives
□ Both
□ Neither
Please explain your answer
69. In your view what is a bigger barrier to investment in clean energy technologies, international competition for capital or access to capital?
☐ Internal competition for capital
70. If you favour financial support, what sort of incentives could be considered?

Accelerating	g renewable energy a	and energy efficiency	/ - Have your say	1

Section 6: Cost recovery mechanisms

This section seeks your views on introducing a levy on consumers of coal to partially recover the cost of implementing any new policies in Part A that may be introduced.

	What is your view on whether cost recovery mechanisms slosals in Part A of the Accelerating renewable energy and energy ment?	
76.	What are the advantages of introducing a levy on consumerities?	s of coal to fund process heat
77. heat	What are the disadvantages of introducing a levy on consuractivities?	mers of coal to fund process

Section 7: Enabling development of renewable energy under the Resource Management Act 1991

This chapter considers policy options to enable renewable energy development under the Resource Management Act 1991 (RMA). We seek your views on the following key options:

- Amending the National Policy Statement for Renewable Electricity Generation (NPSREG)
 to provide stronger direction on the national importance of renewables
- Scoping National Environmental Standards or National Planning Standards specific to renewable energy (note: we propose to prioritise amending the NPSREG while proceeding with this scoping work.)
- Other options including spatial planning, pre-approval of new renewable energy developments, and amending other RMA national direction instruments.

This chapter also notes a wider range of options that could enable renewable development, including the comprehensive review of the resource management system.

Amending the National Policy Statement for Renewable Electricity Generation (NPSREG)

78. Do you agree that the current NPSREG gives sufficient importance of renewable energy?	ient weight and direction to the
\square Strongly disagree	
□ Disagree	
☐ Neither agree nor disagree	
☐ Agree	
☐ Strongly agree	
79. What changes to the NPSREG would facilitate futu	re development of renewable energy?
It is good that it exists but in our view in its current for not carry enough weight.	m it does

80. What policies could be introduced or amended to provide sufficient direction to councils
regarding the matters listed in points a - i mentioned on pages 60-61 of the discussion
document?
Of the standard of the NDCDCC address the belonging of lead anningmental effects and the
81. How should the NPSREG address the balancing of local environmental effects and the
national benefits of renewable energy development in RMA decisions?
82. What are your views on the interaction and relative priority of the NPSREG with other
existing or pending national direction instruments?
83. Do you have any suggestions for how changes to the NPSREG could help achieve the right
balance between renewable energy development and environmental outcomes?
84. What objectives or policies could be included in the NPSREG regarding councils' role in
locating and planning strategically for renewable energy resources?
OE Can you identify any particular concenting barriers to development of other times of
85. Can you identify any particular consenting barriers to development of other types of renewable energy than REG, such as green hydrogen, bioenergy and waste-to-energy facilities?
renewable energy than NLO, such as green hydrogen, blochergy and waste-to-energy facilities?

86. Can any specific policies be included in a national policy state barriers?	tement to address these
87. What specific policies could be included in the NPSREG for s projects?	mall-scale renewable energy
Previous discussions with the wind energy association on the matter identified that it may be more appropriate to set up a specific or secondary NPSREG for small or community based systems.	
88. The NPSREG currently does not provide any definition or the community-scale renewable electricity generation activities". Do yo definition or threshold for these activities?	
It may depend a little on the specific project and matter around that, however perhaps a maximum installed capacity on 10 to 15 MW might be a suitable limit. From a wind turbine perspective, if large modern wind turbines were used this may be $2-3$ turbines.	
89. What specific policies could be included to facilitate re-conswind farms, where consent variations are needed to allow the use of	•
Ultimately a wind farm consent will always be for exactly that, a wind farm. Due to technical issues with turbine spacing, if they are made larger, the space between the turbines needs to increase and hence the total turbine numbers decrease. As a generally observation, a smaller number of larger turbines is generally more visually acceptable (with the addition of lower rotational speed). It should be a more straight forward process changing an outdated wind farm consent rather that applying for a new one. Perhaps it could be a permitted activity with a focus on reassessing the majors effects studies rather than having to reassess everything.	

90. Are there any downsides or risks to amending the NPSREG?

The wind industry has had some issues with the document for some time, and while changes have previously been identified, they have never been implemented.

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Section 7 - continued

94.

with work on NES?

This page asks for your feedback on Proposal 7.2 - which consists of:

- Option A: Scope National Environmental Standards for Renewable Energy Facilities and Activities
- Option B: Scope additional renewable-energy-related content for inclusion in the National Planning Standards

91.	Do you agree that National Environmental Standards (NES) would be an effective and
approp	oriate tool to accelerate the development of new renewables and streamline re-consenting?
☐ Stro	ongly disagree
☐ Disa	ngree
☐ Neit	ther agree nor disagree
☐ Agre	ee
⊠ Stro	ongly agree
92. develo	What are the pros of using National Environmental Standards as a tool to accelerate the pment of new renewables and streamline re-consenting?
93. develo	What are the cons of using National Environmental Standards as a tool to accelerate the pment of new renewables and streamline re-consenting?

What do you see as the relative merits and priorities of changes to the NPSREG compared

Our understanding is that the changes proposed to the NPSREG are relatively straightforward and could be done quite quickly if there was a will to do so. A NES will take longer to compile and implement and therefore both tasks should be undertaken.

95. What are the downsides and risks to developing NES?
96. What renewables activities (including both REG activities and other types of renewable
energy) would best be suited to NES?
97. What technical issues could best be dealt with under a standardised national approach?
98. Would it be practical for NES to set different types of activity status for activities with
certain effects, for consenting or re-consenting?
\square It would be practical
\square It would be impractical
Please explain your answer
Are there any concets of removed by activities that would have low environmental effects
99. Are there any aspects of renewable activities that would have low environmental effects and would be suitable for having the status of permitted or controlled activities under the RMA?
Please provide details.

100. Do you have any suggestions for what rules or standards converted to help achieve the right balance between development and environmental outcomes?	
101. Compared to the NPSREG or National Environment Standard Standards or any other RMA tools be more suitable for providing coon renewables? ☐ NPSREG or NES are sufficient	· ·
☐ National Planning Standards would be more suitable	
☐ A different RMA tool would be more suitable (please specify)	
102. Please explain your answer	

Section 7 - continued

On this page, we are seeking your feedback on options that we have considered, but at this stage we do not recommend be developed further. Including:

- Spatial planning
- Pre-approval of new renewables developments
- Amending the National Policy Statement on Electricity Transmission and the National Environmental Standards for Electricity Transmission Activities

Pre-approval of new renewables developments could include:

- Planning approaches including relatively permissive consenting rules for renewables in defined areas
- Crown acquiring consents for transfer to developers
- New statutory allocation process

We need more information on the merits of these options before deciding whether further work is warranted.

103. suitabl	Are there opportunities for non-statutory spatial planning t e areas for renewables development (or no go areas)?	echniques to help identify
□ Yes		
□ No		
Please	explain your answer	
104. develo	Do you have any comments on potential options for pre-ap pments?	proval of renewable

105.	Are the current National Policy Statement on Electricity Transmission (NPSET) and
Nation	al Environmental Standards for Electricity Transmission Activities (NESETA) fit-for-purpose
to enak	ole accelerated development of renewable energy?

		Fit-for-purpose	N	OT fit-for-purpose
NPSE	ET			\bigcirc
NESE	ТА	\bigcirc		\bigcirc
Please	e explain your answer			
106.	What changes (if any) would you suggest fo	or the NPSFT and NFSF	TA to accelerate the
	opment of renewable e		n the most and mest	The to determine the
		- 07*		
107.	Can you suggest any	other ontions (statuto	ry or non-statutory) t	hat would help accelera
			iy or non-statutory, ti	nat would help acceler
tne ru	ture development of re	newable energy?		

/=\0.0	g renewab			v – Have	AVAUAU III SYS	- N.

Section 8: Supporting renewable electricity generation investment

This chapter considers policy options to accelerate investment in supply- and demand-side renewable electricity generation and energy efficiency. We seek your views on the following:

- Introduce a Power Purchase Agreement (PPA) Platform
- Encourage greater demand-side participation and develop the demand response market
- Deploy energy efficiency resources via retailer/distributor obligations
- Developing offshore wind assets
- Introduce renewable electricity certification and portfolio standards
- Phase down thermal baseload and place in strategic reserve

This chapter also notes other options that could support investment in renewable electricity generation and includes them for your feedback, however we are not recommending further investigation of these options at this stage.

Power Purchase Agreement (PPA) Platform

108. Do you agree there is a role for government to provide information, facilitate matchmaking and/or assume some financial risk for PPAs?

	Neither disagree				
	Strongly disagree	Disagree	nor agree	Agree	Strongly Agree
Provide information	\circ	\circ			
Facilitate match-making	\bigcirc	\bigcirc	\bigcirc		\bigcirc
Assume some financial risk	\bigcirc				
109. Would support ☐ Yes — support for PPA ☐ No	for PPAs effective				
110. Would support	for PPAs effective	ly encourage i	new renewable ge	neration in	vestment?
⊠ Yes – support for PPA	As would effectivel	y encourage n	ew renewable ger	eration inve	estment
□ No					

111. How could any potential mismatch between generation and demand profiles be managed by the Platform and/or counterparties?

112. 1 = mo	Please rank the following variations on PPA Platforms in orde ost preferred, $4 = least$ preferred.	r of preference.
	Contract matching service	
	State-sector led	
	Government guaranteed contracts	
	Clearing house	
113.	What are your views on Contract Matching Services?	
114	What are very views on State sector led DDAs2	
114.	What are your views on State sector-led PPAs?	
115.	What are your views on Government guaranteed contracts?	
L		

116. What are your views on a Clearing house for PPAs?

117. of vou	For manufacturers: what delivered electricity price do you re r process heat requirements?	quire to electrify some or all
118.	For manufacturers: is a long-term electricity contract an attra	active proposition if it delivers
more a	affordable electricity?	
☐ Yes		
□ No		
Please	explain your answer	
119. on an i	For investors / developers: what contract length and price do investment in new renewable electricity generation capacity?	you require to make a return
120. delive	For investors / developers: is a long-term electricity contract rs a predictable stream of revenues and a reasonable return or	• •
☐ Yes		
□ No		
Please	explain your answer	
L		

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V.	accelerating	renewable ene	187 4110 6116181	/ emclency -	HAVE YOUR SAV

Section 8 - continued

On this page, we are asking for your feedback on demand-side participation and demand response.

Do you consider the development of the demand response (DR) market to be a priority for energy sector?
explain your answer
Do you think that demand response (DR) could help to manage existing or potential ctricity sector issues?
What are the key features of demand response markets?
Which features of a demand response market would enable load reduction or asset use imisation across the energy system?

125. Which features of a demand response market would enable the uptake of distributed energy resources?

126. What types of demand response services should be enabled as	s a priority?
127. Which services make sense for New Zealand?	

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Section 8 - continued

On this page, we are seeking your feedback on energy efficiency obligations.

128. effic	28. Would energy efficiency obligations effectively deliver increased investment in energy efficient technologies across the economy?		
□ Yes			
□ No			
129. □ No	Is there an alternative policy option that could deliver on this aim more effectively?		
□ Yes	(please specify)		
130. con s	If progressed, what types of energy efficiency measures and technologies should be sidered in order to meet retailer/distributor obligations?		
131.	Should these be targeted at certain consumer groups?		
132. ene	Do you support the proposal to require electricity retailers and/or distributors to meet rgy efficiency targets?		
☐ I sup	pport the proposal		
□ I do	not support the proposal		
Please	explain your answer		

133.	Which entities would most effectively achieve energy savings?
134.	What are the likely compliance costs of this policy?

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Accelerating renewable energy and	d energy efficiency - Have your say
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Secti	ion 8 - continued	
On t	his page, we are seeking your feedback on developing offshore	wind assets.
135.	Do you agree that the development of an offshore wind mark energy sector?	et should be a priority for the
⊠ St	trongly disagree	
\Box D	isagree	
\square N	leither agree nor disagree	
□Α	gree	
	trongly agree	
136.	What do you perceive to be the major benefits to developing Zealand?	offshore wind assets in New
No	one at present	
	What do you perceive to be the major costs to developing offs	shore wind assets in New
137.	Zealand?	

138. What do you perceive to be the major risks to developing offshore wind assets in New Zealand?

Development cost uncertainties associated with marine infrastructure, long term operational cost uncertainty, extreme weather events

Section 8 - continued

On this page, we are seeking your feedback on renewable electricity certificates and portfolio standards.

At this stage we need further information on the merits of this option before determining whether any further work is warranted. Due to the nature of the option – i.e. the scale of investment by government and/or impacts on industry – it needs to be carefully considered alongside other government decisions on Emissions Trading Scheme settings, the role of complementary measures and the pace and pathways of domestic emissions to meet the country's emission reduction targets.

139. This policy option involves a high level of intervention and risk.

	uld another policy option better achieve our goals to encourage renewable energy eration investment?
□ No	
□ Yes	(please specify)
140. □ No	Could the proposed policy option be re-designed to better achieve our goals?
□ Yes	(please specify)
141.	Should the Government introduce Renewable Portfolio Standards (RPS) requirements?
□ Yes	
□ No	

142. At what level should a RPS quota be set to incentivise additional renewable electricity generation investment?

143.		
☐ Yes		
□ No		
Please	se explain your answer	
144. □ Yes	es	
□ No		
Please	se explain your answer	
145.	What would be an appropriate threshold for the inclusion of major electricual consumption above a certain GWh threshold)?	ity users (i.e.
146. expor	Would a government backed certification scheme support your corporate sort credentials?	strategy and
☐ Yes	es	
□ No	lo	
147.	What types of renewable projects should be eligible for renewable electric	ity certificates?

	If this policy option is progressed, should electricity retailer refficient technology investments to meet their renewable penergy efficiency obligations).	
□ Yes		
\square No		
Please	add a comment	
149. organis	What are the likely administrative and compliance costs of sation?	this policy for your

Section 8 - continued

On this page, we are seeking your feedback on an option to phase down thermal baseload and place it in strategic reserve.

At this stage we need further information on the merits of this option before determining whether any further work is warranted. Due to the nature of the option – i.e. the scale of investment by government and/or impacts on industry – it needs to be carefully considered alongside other government decisions on Emissions Trading Scheme settings, the role of complementary measures and the pace and pathways of domestic emissions to meet the country's emission reduction targets.

151. This policy option involves a high level of intervention and risk.

generation investment?
□ No
☐ Yes (please specify)
152. Could this policy option be re-designed to better achieve our goals? ☐ No
\square Yes (please expand)
153. Do you support the managed phase down of baseload thermal electricity generation?
□ Strongly against
☐ Against
□ Neither
□ Support
\square Strongly support
154. Would a strategic reserve mechanism adequately address supply security, and reduce emissions affordably, during a transition to higher levels of renewable electricity generation?
☐ Definitely would

☐ Prol	oably would
☐ Prob	bably would not
☐ Defi	initely would not
155. used?	Under what market conditions should thermal baseload held in a strategic reserve be
156. during	Would you support requiring thermal baseload assets to operate as peaking plants or dry winters?
☐ Yes	
□ No	
157. fuelled	What is the best way to meet resource adequacy needs as we transition away from fossil- electricity generation and towards a system dominated by renewables?

	\ ccclorating	renewable ene	ray and anara	, atticional,	Have vour cave
V.	accelerating	renewable ene	187 4110 6116187	/ emclency -	HAVE YOUR SAV

Section 8 - continued

We also considered a number of additional options.

They have been included to demonstrate our wide-ranging assessment of possible policy options and to respond to early feedback we have heard from stakeholders.

We are not recommending them for further investigation but we welcome any views you may have on them.

158.	Do you have any views regarding the options to encourage renewable electricity				
gener	generation investment that we considered, but are not proposing to investigate further? (See				
pages 90 - 92 of the Accelerating renewable energy and energy efficiency discussion document).					

Section 9: Facilitating local and community engagement in renewable energy and energy efficiency

This section considers the barriers to greater uptake of small-scale community energy projects and potential options to facilitate community energy, including:

- clear government position on community energy
- support for community energy pilot projects.

159. ⊠ Yes □ No	Should New Zealand be encouraging greater development of	of community energy projects?
	What types of community energy project are most relevant and possibly solar. Both are dependent on the resource pecific characteristics of the location.	in the New Zealand context?

161. What are the key benefits of a focus on community energy?

Community buy-in (ease of consenting) Possible community benefits from slightly cheaper or longer price certainty on power, energy resilience. Having community support for local community wind projects (for example) may raise more generalised support for wind projects in other parts of New Zealand. Community projects are likely to be sized to fit into the local distribution line generally not requiring network upgrades. Communities would be able to see some tangible contribution towards doing something to improve the environment.

162. What are the key downsides or risks of a focus on community energy?

Higher cost threshold with smaller scale. Both consenting and development costs are disproportionally high for small projects and it is these projects that are short of financial support when trying to develop them.

163. Have we accurately identified the barriers to community energy proposals?			
\square Yes			
⊠ No			
Please	Please explain your answer		
work	case is unique. Cost of consenting, funding for preliminary and gaining consents, and long term land access are the issues.		
	rnance of community projects is also an area of uncertainty port in this area would be very useful		

168. What do you see as the pros of government support for pilot community energy projects?

	That Govt is seen to be tackling the issue of sustainability and climate change across the board, and giving communities a chance to be pro-active.	
1	69. What do you see as the cons of government support for pilo	ot community energy projects?
	None	
	70. Are there any other options you can suggest that would supommunity energy initiatives?	port further development of
	An advocate in Govt with influence is needed.	

Section 10: Connecting to the national grid

This section sets out our understanding of issues relating to transmission connections to support growth in renewable electricity and the transition to a low emissions economy.

It seeks your views on options to address:

- the first mover disadvantage gaps in publicly
- available and independent information, and a lack of
- information sharing for coordinated investment.

The first mover disadvantage

171. Please select the option or combination of options, if any, that would be most likely to address the first mover disadvantage.

□ Option 10.1 . – Encourage Transpower to include the economic benefits of climate change mitigation in applications for Commerce Commission approval of projects expected to cost over \$20 million
□ Option 10.2 - Put in place additional mechanisms to support or encourage Transpower, first movers and subsequent customers to agree to alternative forms of cost sharing arrangements by contract
☐ Option 10.3.1 - Optimise asset valuations under the Commerce Commission's regime in circumstances where demand is lower than originally anticipated because expected (subsequent) customers do not eventuate
□ Option 10.3.2 - Provide for Transpower to build larger capacity connection asset or a configuration that allows for growth, but only recover full costs once asset is fully utilised, with the Crown covering risk of revenue shortfall
\square None of the options above
☑ Other (please specify)

Good projects that would be to the benefit of NZ Inc are often significantly penalised due to connection costs. Dealing with this is complex and probably involves part of all of these options, but not one on its own.

1/2.	what do you see as the disadvantages of risks of Option 10.1:
173.	What do you see as the disadvantages or risks of Option 10.2?
174.	What do you see as the disadvantages or risks of Option 10.3.1?
174.	What do you see as the disadvantages of fishs of option 10.5.1.
175.	What do you see as the disadvantages or risks of Option 10.3.2?
176.	Would introducing a requirement, or new charge, for subsequent customers to contribute
to cost	s already incurred by the first mover create any perverse incentives?
□ No	
☐ Yes	(please specify)
177.	Are there any additional options that should be considered?
□ No	•
☐ Yes	(please specify)

Section 10 (continued): Connecting to the national grid

On this page, we are asking for feedback on gaps in publicly available and independent information.

178. □ Yes	Do you think that there is a role for government to provide more independent public data?
Why o	r why not?
179.	Is there a role for Government to provide independent geospatial data (e.g. wind speeds
for site	es) to assist with information gaps?
☐ Yes	
□ No	
180. freque	Should MBIE's Electricity Demand and Generation Scenarios (EDGS) be updated more intly?
□ Yes	
□ No	
181. □ Qua	If you said yes, how frequently should they be updated?
□ Eve	ry six months
☐ Ann	nually
□ Eve	ry two years
182. □ Yes	Should MBIE's EDGS provide more detail, for example, information at a regional level?
□ No	
Please	provide information on what you would find useful

183. Should the costs to the Crown of preparing EDGS be recover	ed from Transpower, and
therefore all electricity consumers (rather than tax-payers)?	
☐ Yes — it should be recovered from Transpower (all electricity consu	imers)
\square No – it should be recovered from taxpayers	
184. Would you find a users' guide (on current regulation and apupgraded or new connection) helpful?	proval process for getting an
□ Yes	
□ No	
Please explain your answer	
185. What information would you like to see in such a guide?	
186. Who would be best placed to produce a guide?	

Section 10 (continued): Connecting to the national grid

On this page, we are asking for feedback on the lack of information sharing for coordinated investment.

187.	Do you think that there is a role for government in improving information sharing
betwee	en parties to enable more coordinated investment?
\square Yes	
\square No	
Why or	why not?
188.	Is there value in the provision of a database (and/or map) of potential renewable
genera	tion and new demand, including location and potential size?
□ Yes	
□ No	
189.	If so, who would be best to develop and maintain this?
100	
190.	How should it be funded?
191.	Should measures be introduced to enable coordination regarding the placement of new
wind fa	arms?
\square Yes	
\square No	
Please	expand on your answer

192. Are there other information sharing options that could help address investment coordination issues? What are they?			

Section 11: Local network connections and trading arrangements

This section seeks your views on whether enough is being done to enable connections to, and trading on, the local network. It summarises regulatory arrangements and work underway to address:

- barriers to connecting to the local network
- issues with the arrangements for trading on the local network, and
- issues with pricing and cost allocation for network connections and

services.	
193. Have you experienced, or are you aware of, significant barr networks? Please describe them.	iers to connecting to the loca
Difficulty in being taken seriously	
Connection costs uncertainty	
Sharing of benefits uncertainty	
194. Are there any barriers that will not be addressed by current pages 118 - 122 of the discussion document?	: work programmes outlined
Pages === 0, and anomalous	
195. Should the option to produce a users' guide (see Option 10.	6 on page 110) also include t
process for getting an upgraded or new distribution line?	
□ Yes	
□ No	
Please add a comment	
riease auu a comment	1

196. Are there other Section 10 information options that could be extended to include information about local networks and distributed generation?
☐ Yes
□ No
Please specify which options would be useful and explain your answer
197. Do the work programmes outlined on pages 118 - 122 cover all issues to ensure the
settings for connecting to and trading on the local network are fit for purpose into the future
□ Yes
□ No
Please explain your answer
198. Are there things that should be prioritised, or sped up?
199. What changes, if any, to the current arrangements would ensure distribution network are fit for purpose into the future?

Additional comments

An opportunity for you to provide any additional feedback.

200. **Do you have any additional feedback?**

No but we are happy to discuss further anything contained in this submission

201. You may upload additional feedback as a file.

File size limit is 16MB. We accept PDF or DOC/DOCX.