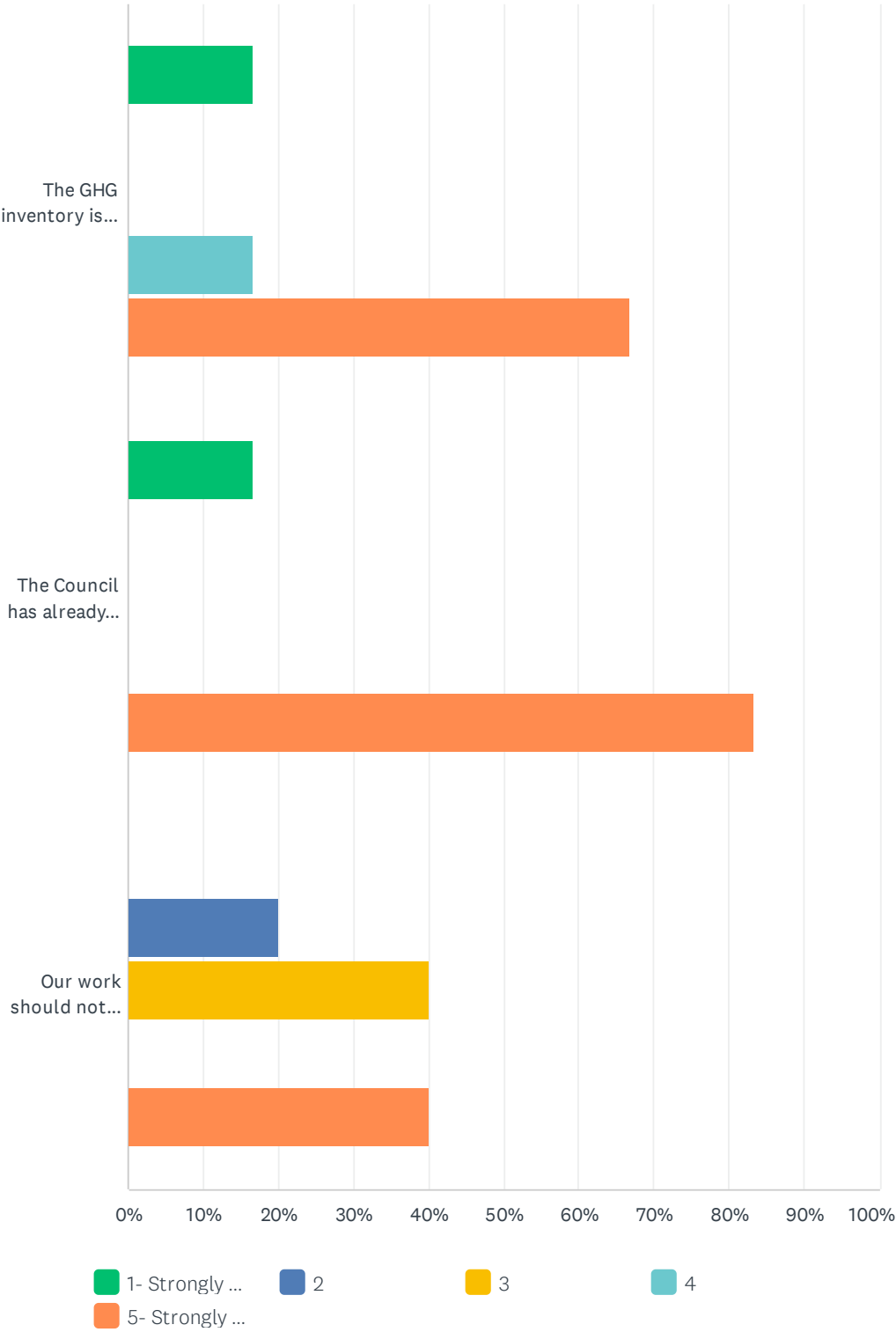


Q1 Please rate the following statements with 5 = strongly agree to 1 = strongly disagree

Answered: 6 Skipped: 0

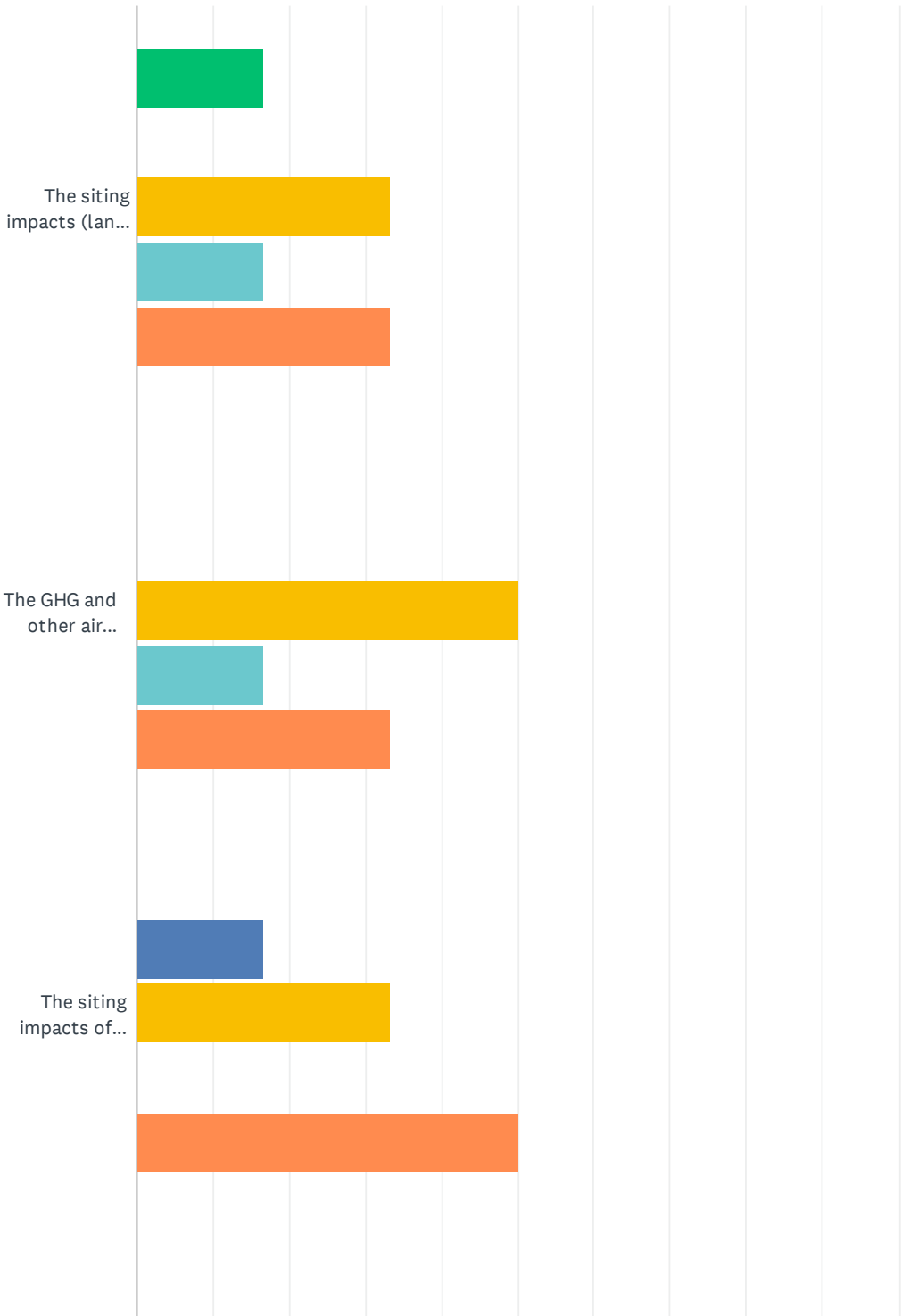


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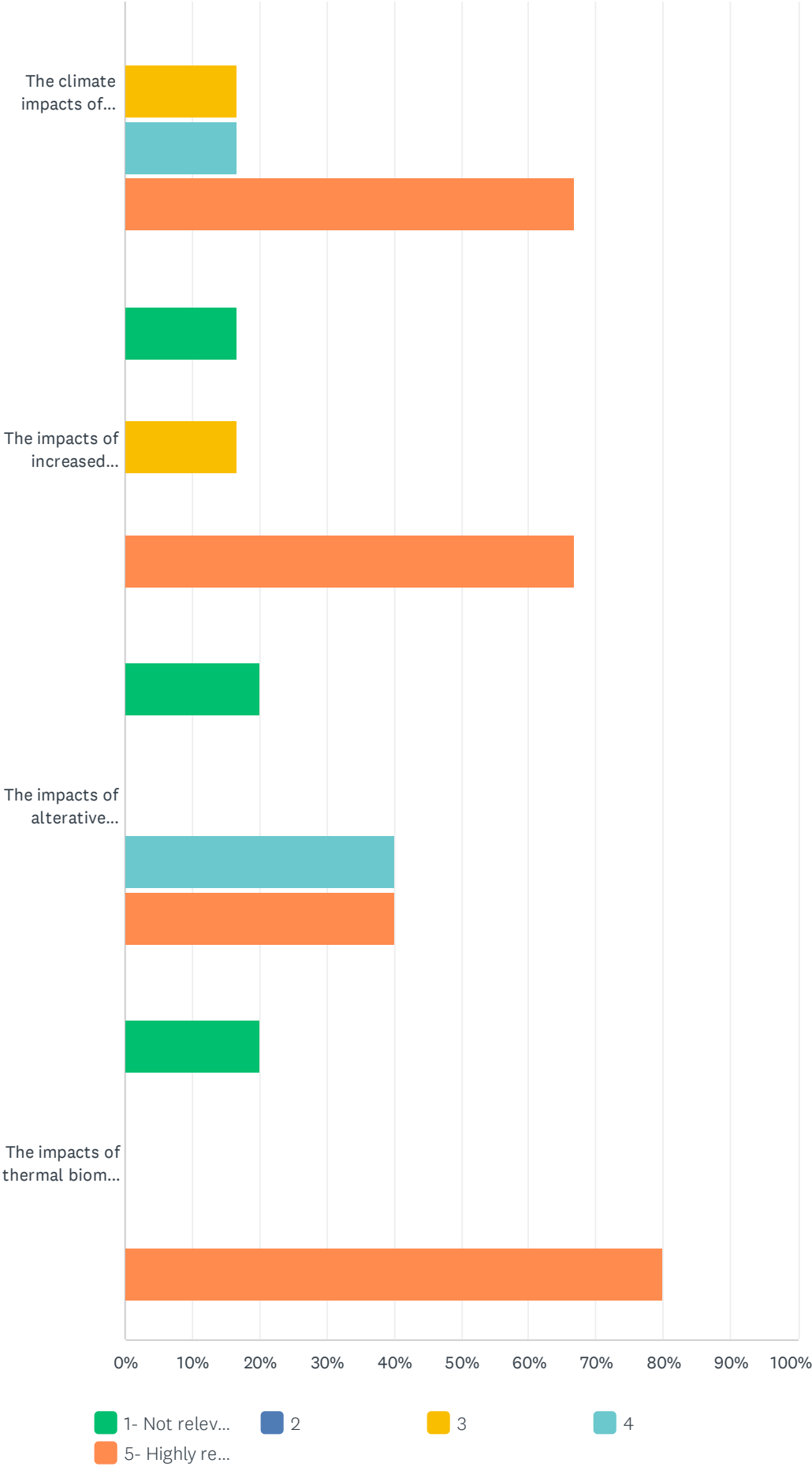
	1- STRONGLY DISAGREE	2	3	4	5- STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
The GHG inventory is being considered in another space and does not need to be within our scope.	16.67% 1	0.00% 0	0.00% 0	16.67% 1	66.67% 4	6	4.17
The Council has already taken a stance on recommending policies for a clean heat standard and supporting fuel switching so we can explore the “how” but not the “if”.	16.67% 1	0.00% 0	0.00% 0	0.00% 0	83.33% 5	6	4.33
Our work should not recommend the construction of any additional industrial biomass electricity production facilities in Vermont	0.00% 0	20.00% 1	40.00% 2	0.00% 0	40.00% 2	5	3.60

Q2 Please rate the following topics we might explore as appropriately within the scope of this Work Group with 5 = highly relevant to our scope to 1 = not relevant to our scope. The question is not if these issues are important, but rather if these issues are pertinent to the work of this Work Group as formed by the Climate Council.

Answered: 6 Skipped: 0



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	1- NOT RELEVANT TO OUR SCOPE	2	3	4	5- HIGHLY RELEVANT TO OUR SCOPE	TOTAL
The siting impacts (land use, cultural resources, flooding) of existing biomass electric generating facilities in Vermont to impacted communities.	16.67% 1	0.00% 0	33.33% 2	16.67% 1	33.33% 2	6
The GHG and other air emission impacts of existing biomass electric generating facilities in Vermont.	0.00% 0	0.00% 0	50.00% 3	16.67% 1	33.33% 2	6
The siting impacts of thermal expansion of existing biomass electric generating facilities in Vermont (i.e. opportunities for district heat).	0.00% 0	16.67% 1	33.33% 2	0.00% 0	50.00% 3	6
The climate impacts of thermal expansion of existing biomass electric generating facilities in Vermont.	0.00% 0	0.00% 0	16.67% 1	16.67% 1	66.67% 4	6
The impacts of increased thermal biomass energy production on forest carbon stocks in small scale commercial, institutional, municipal, or residential applications.	16.67% 1	0.00% 0	16.67% 1	0.00% 0	66.67% 4	6
The impacts of alternative thermal biomass fuel mixes (pellets, chips, etc.) and sourcing on net GHG emissions.	20.00% 1	0.00% 0	0.00% 0	40.00% 2	40.00% 2	5
The impacts of thermal biomass scope and scale on retention of land in forest, local economics, local jobs, and similar elements?	20.00% 1	0.00% 0	0.00% 0	0.00% 0	80.00% 4	5

#	OTHER (PLEASE PUT OTHER TOPICS YOU BELIEVE RELEVANT AND IN SCOPE FOR THIS WORK GROUP)	DATE
1	The charge given to this discussion group is quite unclear. Perhaps we are asked to examine the impacts of biomass electric generation facilities, and if so the top 3 items are relevant. But I am fairly certain we are NOT being asked to discuss or opine on distributed, small-scale wood heat in Vermont, and I would not encourage this group to try to take those issues on.	3/1/2022 10:45 PM
2	The review of Climate Impacts - particularly GHG Impacts - of biomass, both thermal and electric, is part of the scope of this group, but the actual GHG impacts - both gross and net - seem to be in direct scope of the Science & Data Subcommittee. We need to work with (and within?) that Subcommittee to understand the GHG impacts, and evaluate those in the context of siting, community impact, and other factors.	3/1/2022 3:06 PM
3	*small scale biomass i.e. in schools, and back yard boilers etc. *impact of biomass on our forest, I realize most of the wood chips used in Vermont do not come from Vermont because ours are so expensive but we need to look at this as a global issue and how their use is impacting our air pollution as well as the reduction in carbon storage. for example North Carolina is currently, clear cutting 168,000 acres of trees from a wetland for the purpose of making wood pellets. Much of the wood pellets made in Vermont are sent to Europe.	2/28/2022 2:05 PM
4	Question 1c I don't understand how it is worded; couldn't make heads or tails of it. If you meant "ban new electric-led biomass facilities" or instead "refrain from recommending" that new facilities be built. So I left it blank. Some of the Qs above are sufficiently outside my expertise I am not answering them.	2/26/2022 2:19 PM

Q3 Please suggest below one or more names of experts you would like to invite to speak to the group and why (respondents can add as many names as they want). Please put Name, Affiliation, Expertise, Potential Value to the Group, contact information (email)

Answered: 5 Skipped: 1

#	RESPONSES	DATE
1	Adam Sherman BERC ANR and Ag/Forestry department experts on wood utilization science and policy DPS on the role of biomass electricity in Vermont's mix If we're looking at McNeil, we should hear from BED, and from folks who are studying possible use of waste heat for district heat in Burlington	3/1/2022 10:45 PM
2	Emma Hannsen, FPR (is there an FPR rep on this work group?), Adam Sherman, VEIC - both have done significant work on small scale thermal biomass applications.	3/1/2022 3:06 PM
3	Chase Whiting, an attorney at CLF lives in old North End of Burlington, cwhiting@clf.org and 802.355.0656. Experiences living next to McNeil. William Moomaw, PhD, Emeritus Professor, Tufts University (William.Moomaw@tufts.edu) Dr. Moomaw is Emeritus Professor of international environmental policy and founding director of the Center for International Environment and Resource Policy at Fletcher. He currently serves as co-director of the Global Development and Environment Institute at Tufts, which he co-founded. Dr. Moomaw is a global expert on forest carbon, lead author on five IPCC reports, and lives in western Massachusetts. Mary Booth, PhD, Director, Policy for Public Integrity (mbooth@pfpi.net) Dr. Booth is a nationally-recognized advocate known for producing high-quality, data-driven arguments. An ecosystem scientist by training, she received her doctoral degree in Ecology at Utah State University, focusing on biogeochemistry and plant ecophysiology. She completed postdoctoral fellowships at the Ecosystems Center of the Woods Hole Biological Laboratory and the Earth Institute at Columbia University. Mary's approach to advocacy was formed at Environmental Working Group, where she served as a Senior Scientist working on water quality. She currently directs the PFPI's science and advocacy work on greenhouse gas, air pollutant, and forest impacts of biomass energy and has provided science and policy support to hundreds of activists, researchers, and policy makers across the US and EU. Mary lives in Massachusetts. Rachel Smolker, PhD, Co-Director, Biofuelwatch (rsmolker@riseup.net) Rachel Smolker is codirector of Biofuelwatch where she works internationally to raise awareness and campaign on the impacts of large scale bioenergy on climate, the environment and human rights. Her work has spanned from local grassroots organizing to participation in the United Nations conventions on climate and biodiversity. She is on the steering committee of the Campaign to Stop GE Trees, is a member (former board member) of the Global Forest Coalition, has served as a reviewer for the International Panel on Climate Change (IPCC) and has engaged in various campaigns more locally in Vermont. Rachel has a Ph.D. in biology from the University of Michigan, and worked for many years as a field biologist prior to joining Biofuelwatch. She is author of numerous peer reviewed and popular articles, reports, and a book (To Touch A Wild Dolphin). Rachel lives in Hinesburg, Vermont. Bill Keeton at UVM, Forest carbon management, climate change impacts on forest ecosystems, ecologically-based silvicultural systems, structure and function of old-growth and riparian forests, natural disturbance ecology, restoration ecology, forest biodiversity, and sustainable forest management policy and practice in the U.S. and internationally. https://www.uvm.edu/gund/profiles/william-keeton , Gund Fellow, Professor, Rubenstein School for Environment and Natural Resources,	2/28/2022 2:05 PM
4	I don't think reviewing existing plants operating under existing permits, rules and approved forestry plans etc. should be within our scope. If we nevertheless consider that, here is a list: Betsy Lesnikoski, McNeill Chief Forester, BED (forestry practices for existing McNeill facility) Adam Sherman, VEIC (biomass expert) Hantz Presume, VELCO (expert in what would replace McNeill baseload on regional grid if not operating) Dave MacDonald, director at McNeill, BED (expert in plant operations) Paul Pikna, Sr. Engineer, McNeill, BED (expert in plant operations, emissions, potential dist heat expansion) If we decide to proceed with looking at existing	2/26/2022 2:19 PM

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facilities, we can get contacts for these individuals. But the plant (and Ryegate, presumably) is operating under issued permits and license approvals and so I don't know why we'd utilize significant resources to review

5	William (Bill) Keeton, UVM Carbon Dynamics Lab - william.keeton@uvm.edu Emma Hanson, Wood Energy Coordinator FPR - emma.hanson@vermont.gov Thomas Buchholz, Gund Institute UVM - thomas.buchholz@uvm.edu	2/24/2022 7:47 AM
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Q4 Anything else you want to share about the scope of our Work Group?

Answered: 5 Skipped: 1

#	RESPONSES	DATE
1	I disagree with the framing of Question 1, which seems to assume we are possibly asked to discuss the "if" of the CHS, but if not that, then the "how". I don't think we have been asked to discuss either one. The Council's recommendations on the CHS are quite clear, and the Council discussion that led to creating this discussion group did not take up the CHS design elements at all. Perhaps there is scope to discuss large-scale biomass electricity generation, but that's about all that I see on our plate.	3/1/2022 10:45 PM
2	We should focus first on discussion and narrowing of the Tabled Action Items.	3/1/2022 3:06 PM
3	I believe we should be listening to the stories from folks on the ground as well as scientists. There should be a balance, in my experiences scientists can and have manipulated data.	2/28/2022 2:05 PM
4	see above comments - feels like we have really really big lifts to make in transportation and from a resource POV that should be a critical/main focus. There likely is a set of things we could agree on fairly quickly to ensure there would be no ground lost from a carbon POV while supporting the work of other sectors like thermal (CHS policy, for ex., w/ advanced wood heating, district energy) and supporting strong forestry standards etc.	2/26/2022 2:19 PM
5	Emma may be able to provide this, but it would be great to understand the current wood flows into the state as it relates to sourcing for existing plants (pellet, electric), and as market products (ie. finished pellets for retail)	2/24/2022 7:47 AM