



1292 Anvilwood Court | Sunnyvale CA 94086 USA

May 21, 2020

Dear Mr. James Throup,

I, undersigned, David Tze, in my capacity of CEO of NovoNutrients, express our strong interest in ALLFED's strategic goal of a catastrophe-resilient food system for South Australia.

NovoNutrients transforms waste industrial  $CO_2$  into *food and feed*, through industrial biotech and microbial gas fermentation. Our highly nutritive protein flour is a promising pillar for the future safeguarding of food security from small scale to the largest scale. With the potential to decouple nutrients from agriculture, given that industrial emissions of carbon dioxide are our key feedstock, NovoNutrients protein represents a *resilient food* that will continue to produce in food shocks, such as severe crop disease, super crop pests and extreme weather incidents, whilst, compared with traditional protein sources, using minimal land and water.

We support ALLFED's goals to:

- Create a regionally specific food system resilience assessment for South Australia and strategic template document for other resilient regions; there is reason to believe that South Australia is one of the best places in the world to deploy NovoNutrients technology, due to its gearing up to become a major producer (and for the moment, exporter) of hydrogen, which is our secondary and rarer feedstock,
- Develop regional food network partners such as community, academia, policy, government actors; Australia continues to have blossoming nutrition systems for not only fish (salmon in Tasmania and barramundi around), but also poultry, pigs, pets, and people,
- Obtain funding to develop an ecosystem of resilient food knowledge and industry in South Australia, and
- Create a database of resilient foods to scale up in resilient cities around the world.

A recent cradle-to-gate Life Cycle Analysis was completed as the core of a masters thesis at the University of New South Wales. In it, the production scenario in which  $H_2$  is produced sustainably from Australian renewable energy source yields a result that NovoNutrients Protein Flour will only produce 175 kg  $CO_2$ -eq per ton of biomass. That metric is 4 times better than wild-caught fish flour, 9 times better than soybean flour, and 50 times better than corn gluten flour.

We would be interested in collaborating with ALLFED and to understand if Adelaide in South Australia, or indeed any subsequent resilient regions, could be a suitable area for research, innovation or expansion.

Yours sincerely,

DocuSigned by:

David Tze  
CEO  
NovoNutrients

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