Submission template

Date submitted: Jul 19, 2021, 09:43 AM

Name: [redacted]

Stakeholder group/interest: Exhaust Control Industries - CO2 Capture and Emission Treatment Technology

Q1. Do you have any further information, evidence, or concerns that you wish to raise in relation to the scenario design and analysis?
We have worked on many Gas and Diesel fired power station specializing in reducing Global warming gasses in-particular NOx. I'm wondering if you have considered a Eco2 Pro CO2 Enhancement for Greenhouses as part of the infrastructure.

http://exhaustcontrol.com.au/products/eco2-pro-co2-enhancement-for-greenhouses/

We treat the Gas and feed it back into a hot hose to grow foods. We also produce hot water and electricity capturing 90% of available energy from the generator.

Q2. Do you have any further information or evidence that can help identify an optimum scenario for a net zero emissions gas sector in 2050?
Using this technology the plants absorb the CO2 and convert to Oxygen. Having many installed in Europe and in South Australia we are seeing amazing results with increases yields of 30%.

Q3. What policies and/or regulations, if any, are needed to support the development of low carbon pathways such as biogas, green hydrogen, and carbon capture and storage?
Other counties such as Europe and USA have a stationary diesel and gas emission regulation based on a Tier or EURO rating. In Australia there is no emission regulation for standby (under 200) hours per year or prime power. We see this all over Australia. Putting in place or for Australia to adopt its own regulation in this area will force persons to think about this type technology to ensure that the air we breath is better for everyone.

Q4. What is your view on the best ways to maintain the reliability and affordability of Victoria's gas supply if natural gas use declines?
If you were having to pat the Clean Energy Regulator (CER) to offset carbon emissions then this would save you a lot in contributing to STC's and LGC's. We have not yet run the numbers into weather this ends up becoming carbon negative but we do have recording equipment that can be used to submit data to the CER.

Q5. What else can you tell us about the implications of decarbonisation pathways for the electricity generation, transmission and distribution networks?
We have been working very closely with other counties in developing emission policy in Asia Pacific Region. Focusing on capturing harmful martials from exhaust gasses there are many ways that are reasonably practical without adopting complex systems and are scalable depending on the project.

Q6. How can the use of Victoria's existing gas infrastructure be optimised during the transition to net zero emissions, over the short (10 years), medium (20 years) and long-term (30+ years)? How can the Victorian Government assist in this?
Where a lot of the gas is stored, is also in a great climate for green houses. If it could be utilized with farmers to produce crops and power this would be a win, win.

If the Victorian government could offer incentives for these sorts of systems this would not only support a local economy but it would enable us to build on local projects and expand into other states and make this sort of technology more attractive to farmers.

Q7. What principles should apply or what measures will be needed to manage the impacts of gas decarbonisation on households and businesses?

Q8. What polices, programs and/or regulations should the Victorian Government consider or expand to encourage households, commercial buildings and small businesses to reduce their gas use?

Q9. What policies, regulations or other support, if any, do you think are needed to support industrial users to switch from natural gas to lower emissions energy sources or chemical feedstocks?
A continuous emission monitoring system (CEMS). We use this on all of our large scale projects. It reports and records live data. Also has alerts and can be used to submit directly to any regulatory body.

Also, If gas fired power station even used ECI catalyst this would drastically reduce VOC's (Volatile organic compounds) and hydrocarbons.

How would you like your submission treated?
Published, but my name removed