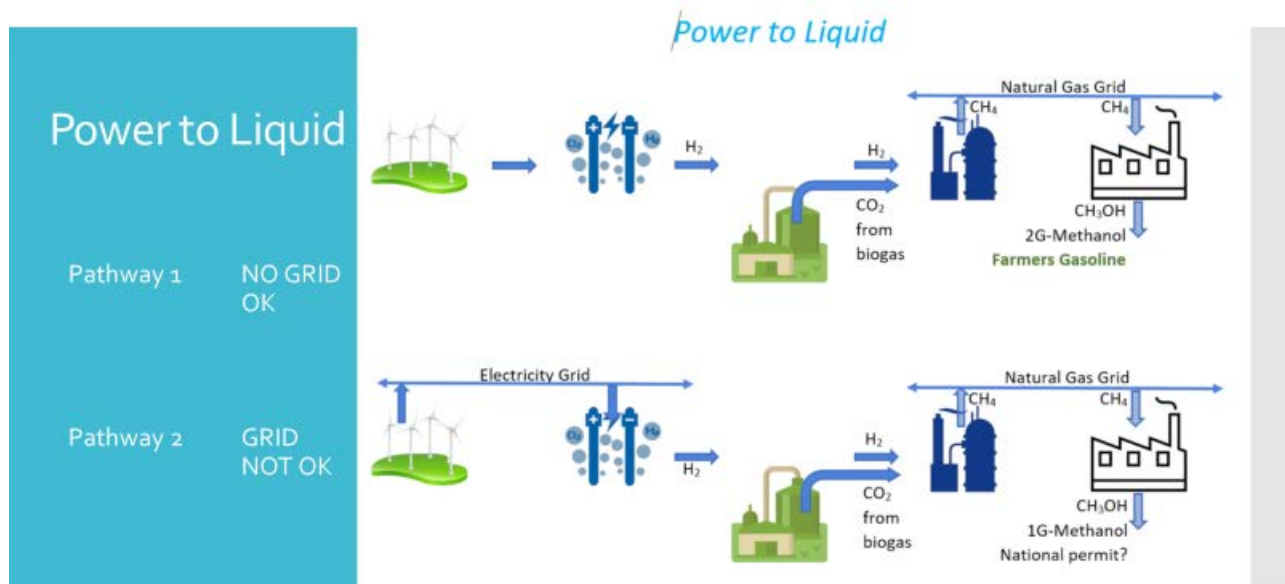


Storage of Windpower



Each time energy change carrier, we lose something. When SEAS-NVE heats stones up to 600 °C with electricity, 60% is lost before the energy is made back to electricity. Therefore, we should convert electricity into something we can store and use as is without making it back again. In this respect, chemical storage as methanol is good. We can use this for transport instead of petrol and diesel.

This is good because we already have large gas stocks for methane in the natural gas network, which is one step on the way to methanol. The first step is to convert electricity to hydrogen. There will be a need for enough capacity on windy days. Just how much is an economic balance. We can establish the hydrogen production decentralized and near biogas plants for a start. Here, there is already carbon dioxide (CO₂), required for the next step to convert the hydrogen into methane. There are also gas pipelines in place for transporting methane. Once this far, the storage problems are over.

The methane can be distributed in the natural gas network, so the methanol can be produced anywhere hooked up to the international gas grid. We already have production capacity for the first million tons of biomethanol.

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