

⇒ All Technologies addressed for integration into the CCU Bio-Refinery concept have been previously developed and proven at production scales. Concerning the Carbon recycling leverage Technology by Capture from Methane under Hydrogen release for CO₂ splitting into CO may either need to be scaled-up to the levels of already successfully industrialized up-stream decomposition gas productions, or the demonstration limited to its current scale. According to an opinion of FFG on our last application for a development grant for a scale-up preparation, the implementation risk was not considered to justify innovation risk hedging, due to the extensive prior work and feasibilities on the subject matter.

Addressing organic waste streams as a feedstock can rely on existing logistics and sound supply. Since the overall energy efficiency of the CCU Bio-Refinery output outperforms all other existing Waste to Energy usage paths, it shall be secure on the feedstock supply. Apart from that, the concept is also fully synergetic with all EU Resource Efficiency Directives.