

	Process	Feedstock
1	Methanol Synthesis from Syngas	Syngas from gasification
2	Biogas Steam Reforming to Methanol	Biogas
3	CO₂ Hydrogenation	CO ₂ + H ₂
4	Direct Methanol Synthesis from Biomethane	Biomethane
5	Electrochemical Reduction	CO ₂ + Electricity
6	Biological Conversion	Biomass or CO ₂

Technology Maturity

High

Medium

Medium

Low to Medium

Low

Low