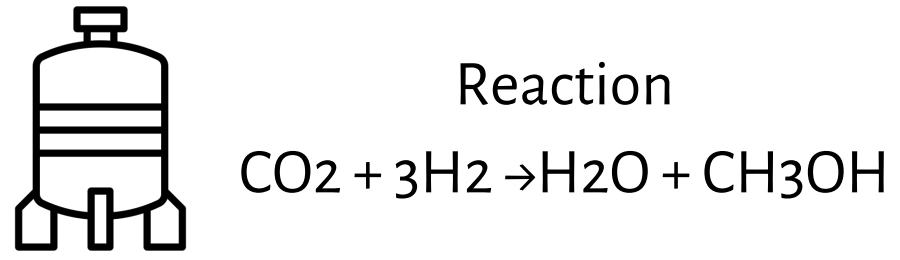
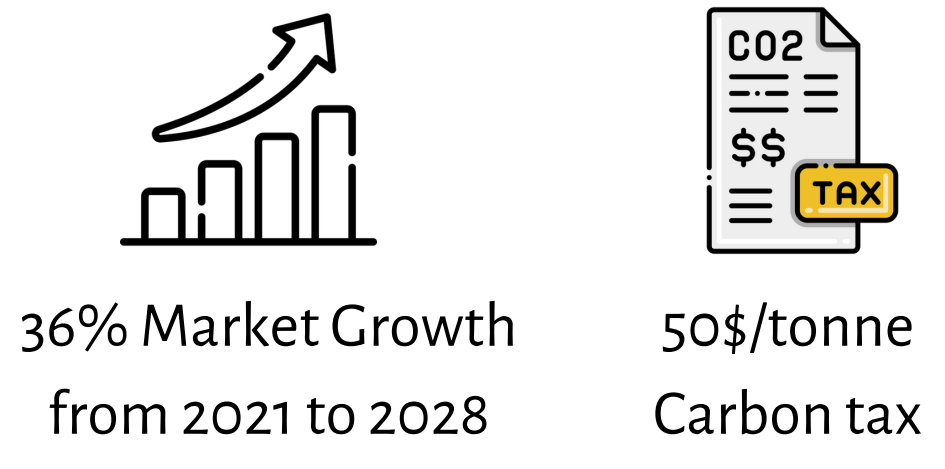


# DIRECT METHANOL SYNTHESIS FROM CARBON DIOXIDE AND HYDROGEN

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THE UNIVERSITY OF BRITISH COLUMBIA  
 Special Thanks: Dr. Jim Lim, Dr. Jonathan Verret, Prof. Sergio Berretta, Dr. Susan Baldwin, Dr. Peter Englezos, Mr. Iwan Townson

## BACKGROUND



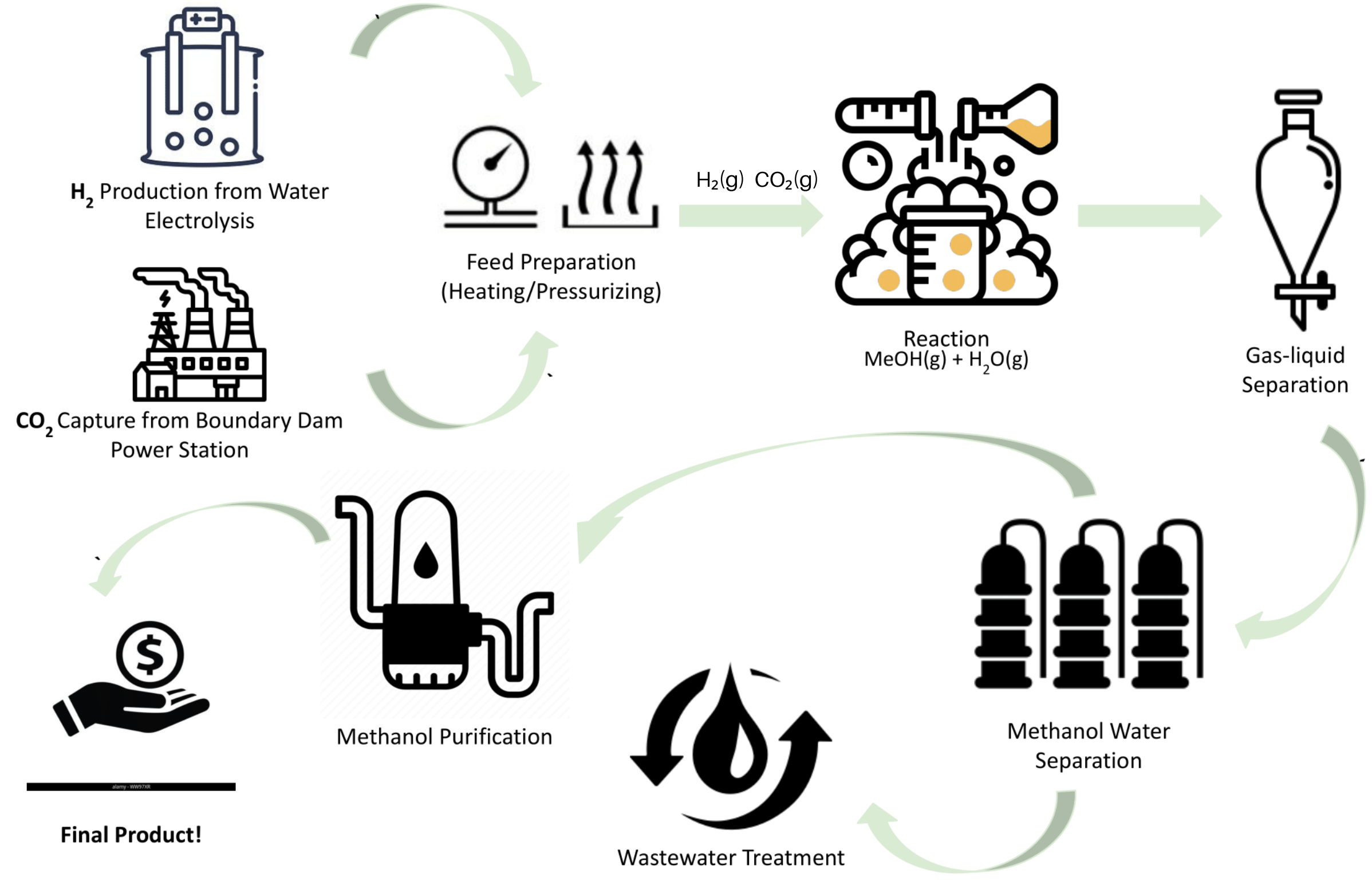
CO<sub>2</sub> Consumption 176,000 tonne/yr → Methanol Production 115,000 tonne/yr

Estavan, SK, Canada  
 Near US border, Highway 47

## INNOVATION

- Captured from Boundary Dam Power Station
- Produced from Electrolysis of Water
- Produced in a greener way compared to hydrogenation of CO
- Pumped from the Boundary Dam Reservoir
- Powered by renewable energy source

## PROCESS DESCRIPTION



## ECONOMICAL ASSESSMENT

