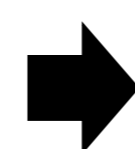


Carbon Recycling

Background

- Realization of sustainable resource and energy use
- 2050 carbon neutral



Effective use of renewable energy

Carbon recycling

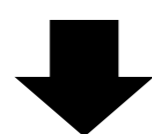
Introduction

Technology development and demonstration

Methanation experiment

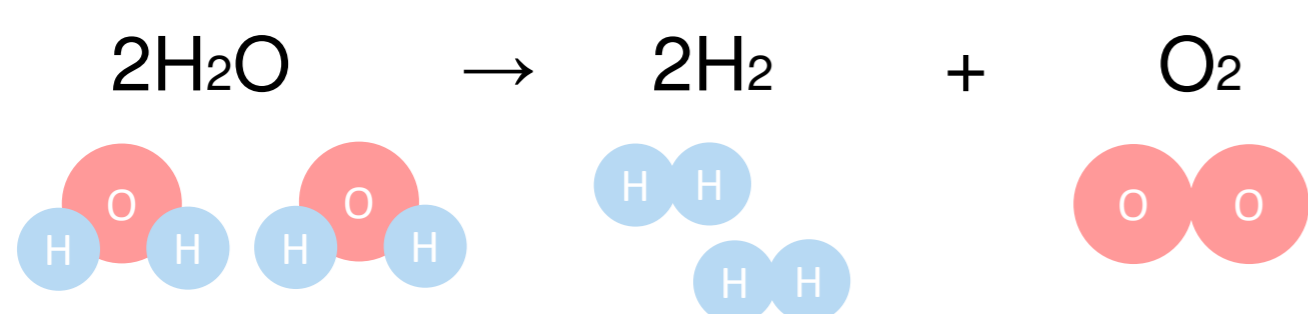
Process system design and optimization

System analysis using simulation tools

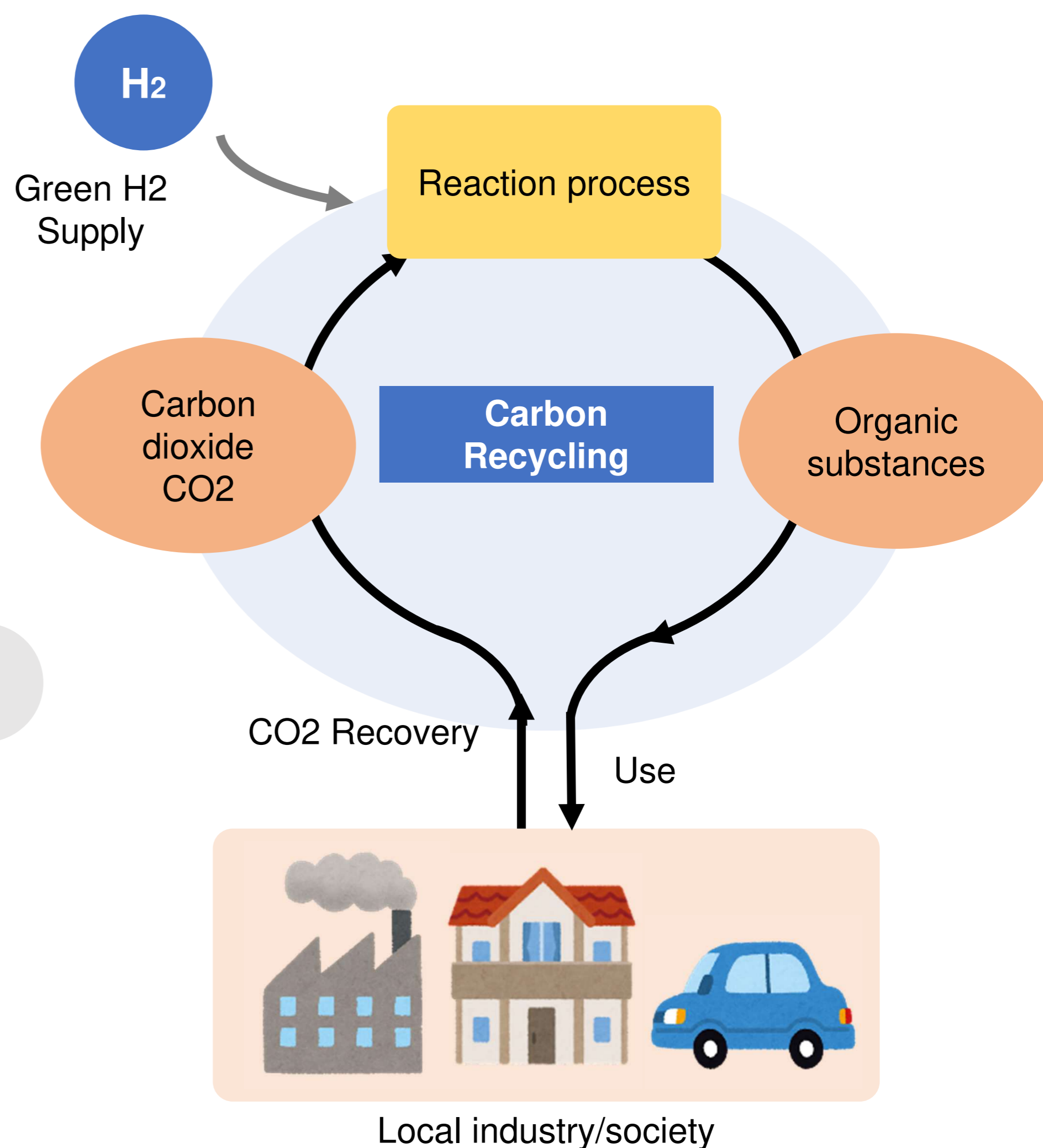
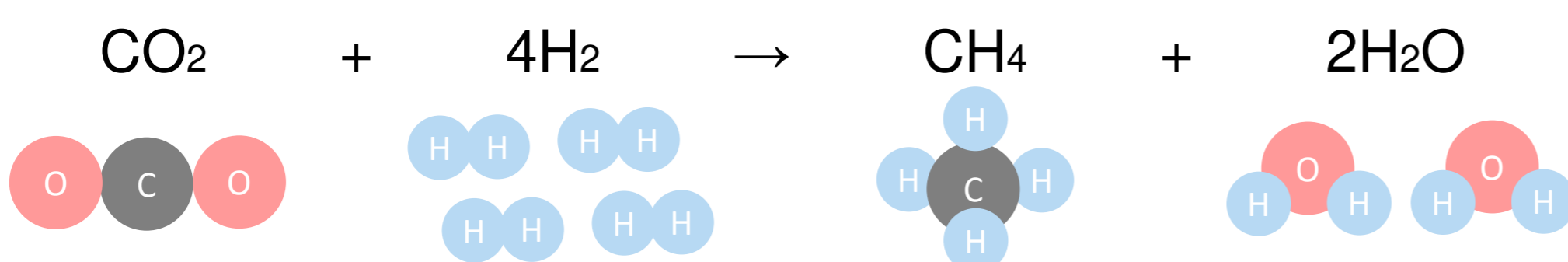


Matching local hydrogen production and carbon recycling

Reaction of H₂O electrolysis



Reaction of Methanation



① Technology development and demonstration

Methanation Bench-scale experiments on methanation with electrolytic hydrogen



Water electrolysis

Methanation Equipment

② Process system design and optimization

