\[ \text{CO}_2 + \text{H}_2 \rightarrow \text{CO} \]

Diagram:

- **CO** enters the system.
- **CO** reacts with **H2** to form **CO2**.
- **CO2** and **H2** combine to form **Formiat**.
- **Formiat** is converted to **Acetyl-CoA**.
- **Acetyl-CoA** is converted to **Ethanol**, **Aceton**, **Butanol**, **Isopren**, and **Biodiesel**.
- ATP is consumed in the conversion processes.