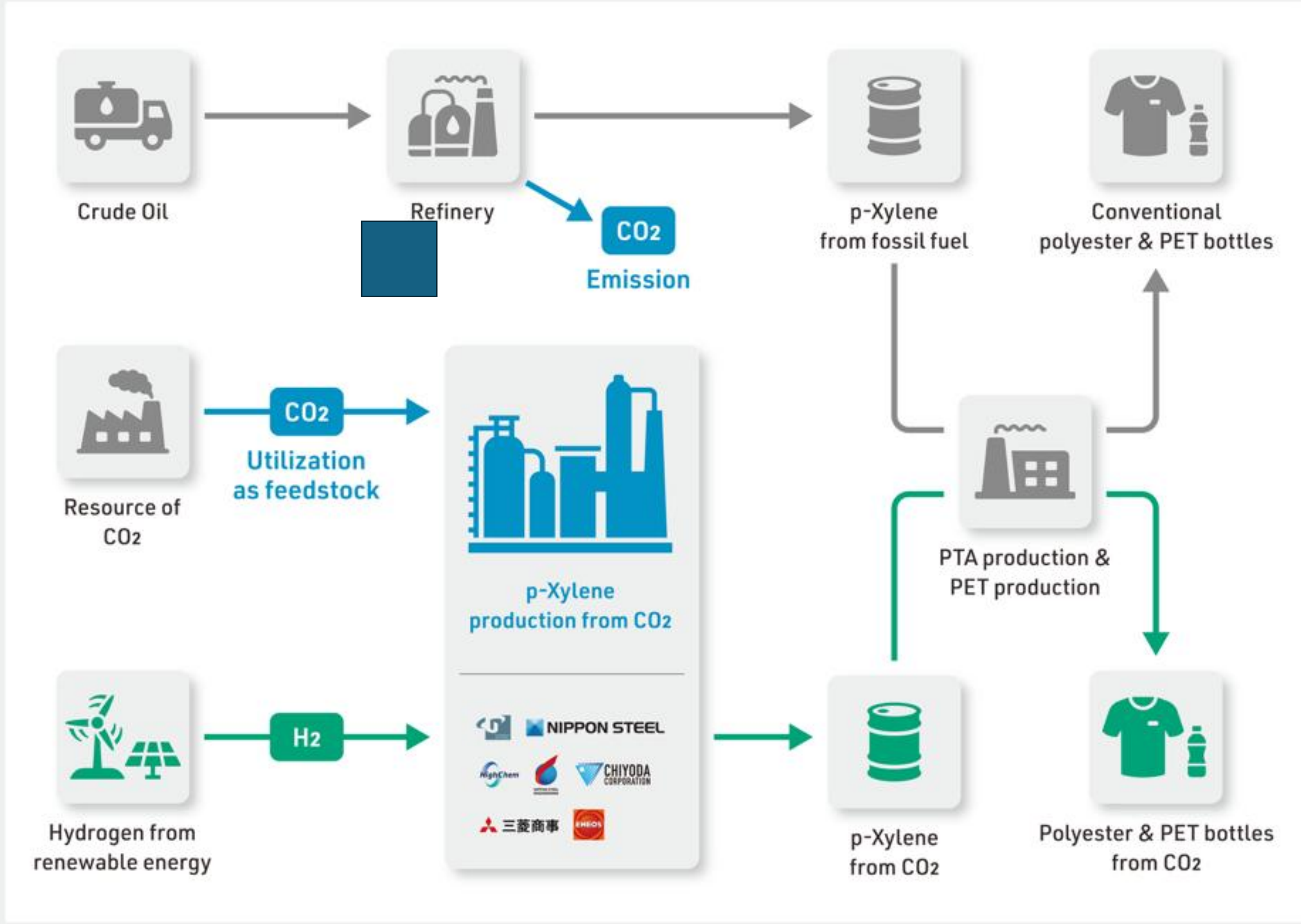


## Manufacturing Technology Overview (e-PX) [e-PX 製造技術概要]

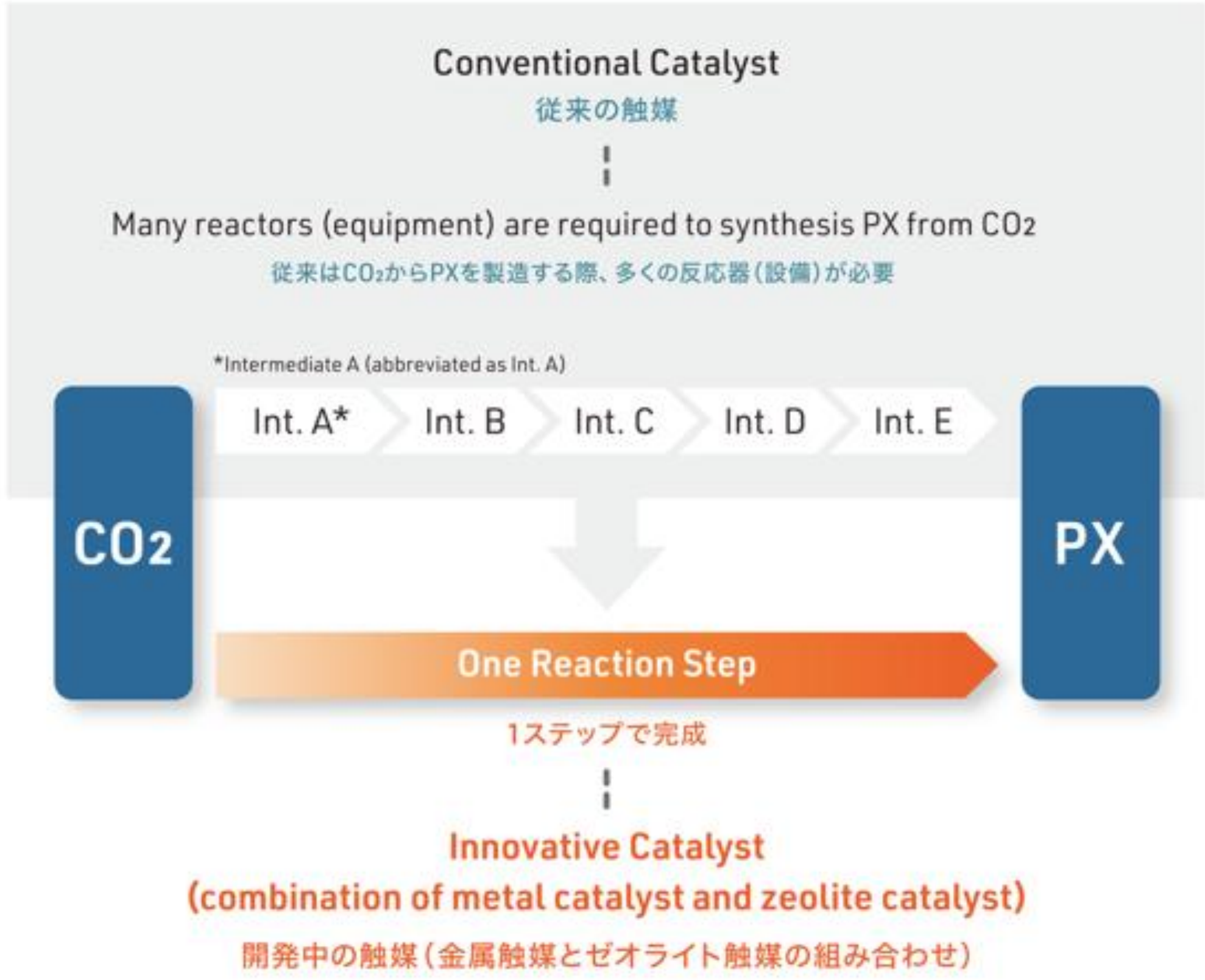


- p-Xylene (PX):  
Key chemical for polyester and PET production
  - Developing innovative technology to produce PX from CO<sub>2</sub> and H<sub>2</sub> (NEDO\* project: 2020-2025)
  - Contributing to material decarbonization with carbon capture and utilization technology
- \*NEDO New Energy and Industrial Technology Development Organization
- ・パラキシレン (PX) :  
ポリエステル繊維やペットボトルの製造に必要な化学品
  - ・CO<sub>2</sub>、H<sub>2</sub>を原料としてPXを製造する革新的技術を、NEDO事業 (2020-2025年度) にて開発中
  - ・PXに炭素を固定化する製造技術で素材の脱炭素化に寄与

## e-PX Manufacturing Technology Characteristics [e-PX 製造技術特徴]

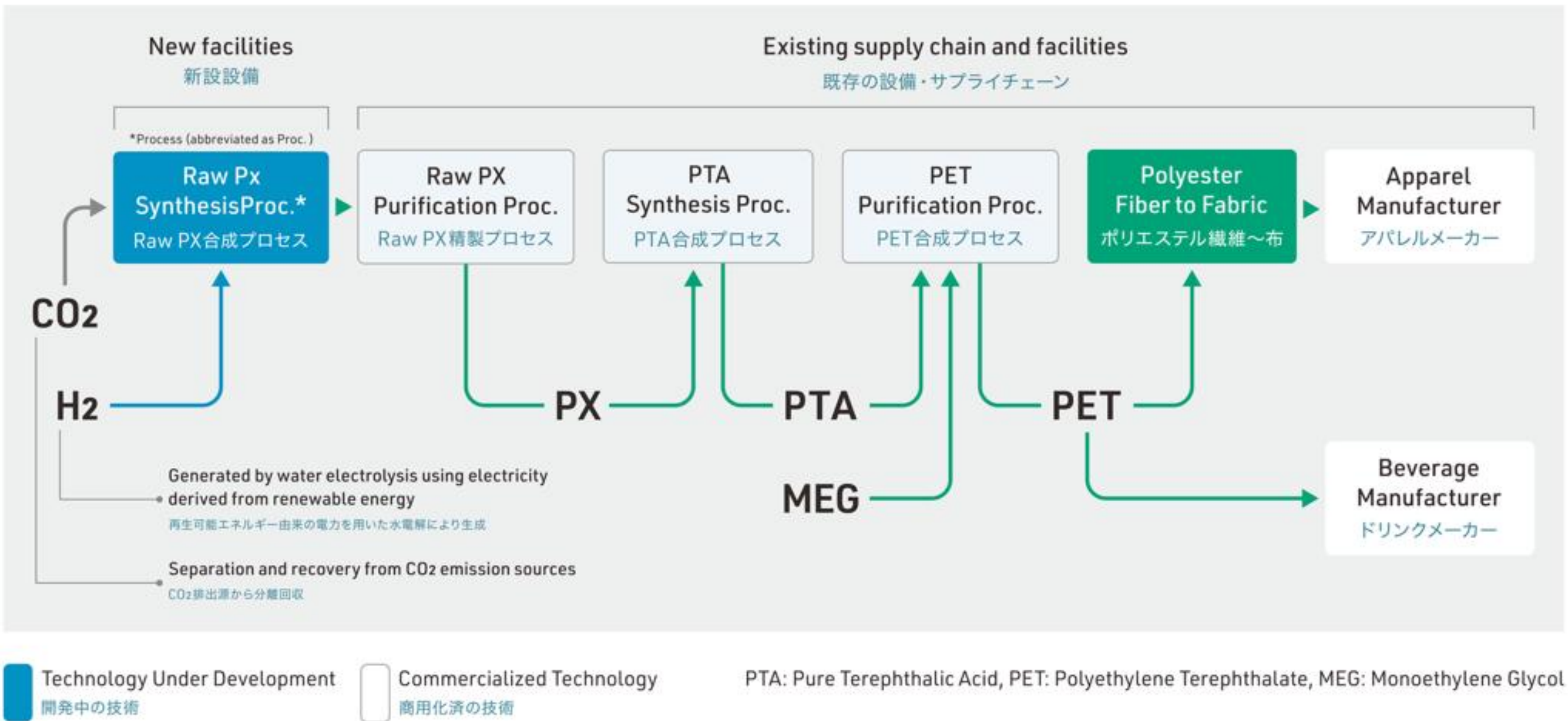
### Innovative Catalyst [e-PX 触媒の革新性]

Green-PX innovative catalyst making number of reaction steps smaller  
▶ Contributes to reduction of production costs  
反応工程を削減し、生産コストの削減に貢献



### Overall Flow [全体フロー]

The production facilities for CO<sub>2</sub>-based p-Xylene can utilize the existing supply chain by leveraging current refinery process  
CO<sub>2</sub>由来PXの製造設備は、既存の製油所プロセスを活用することで既存サプライチェーンを利用可能に



## e-PX Development Status [e-PX 開発状況]

