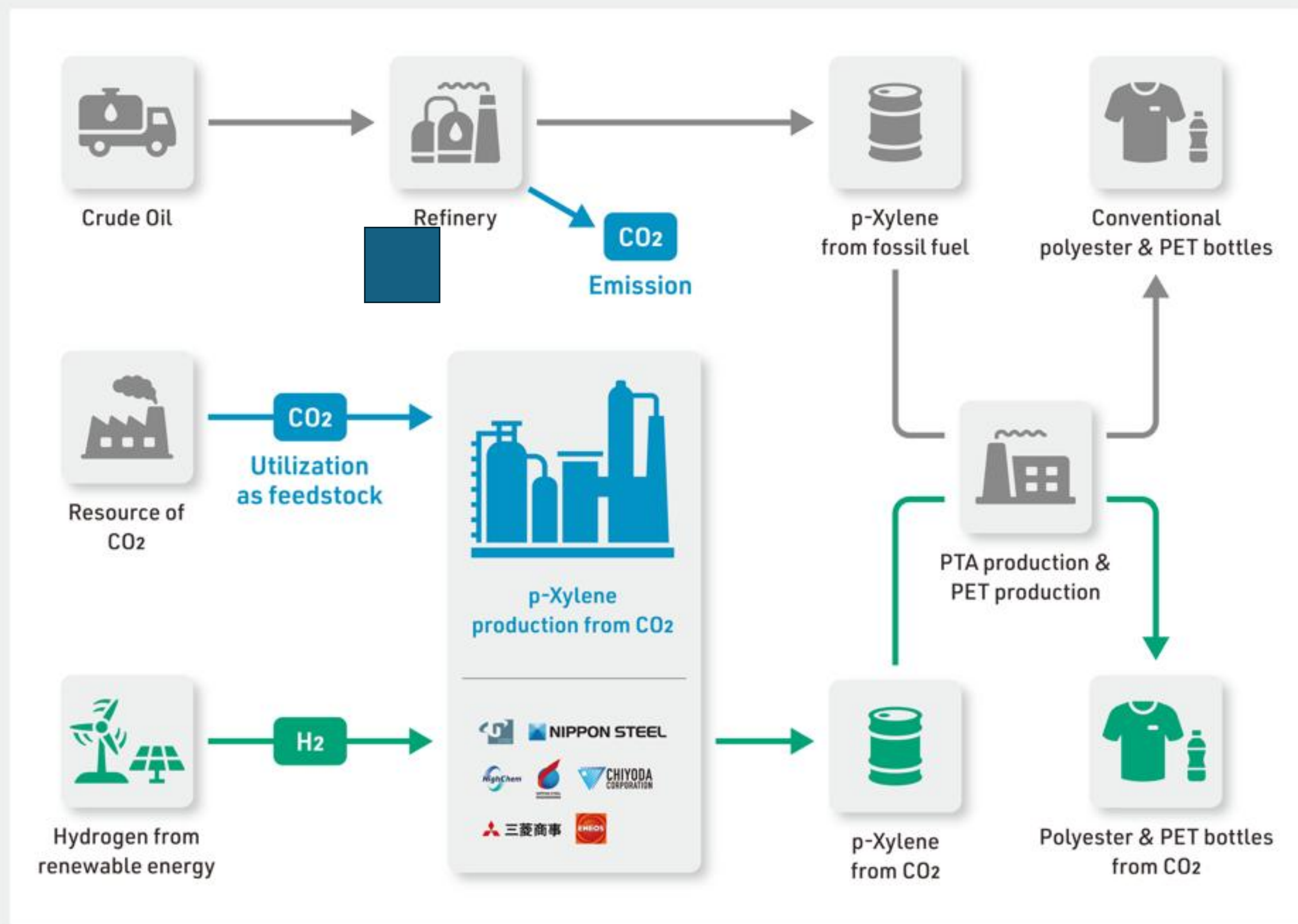


Manufacturing Technology Overview (e-PX) [e-PX 製造技術概要]

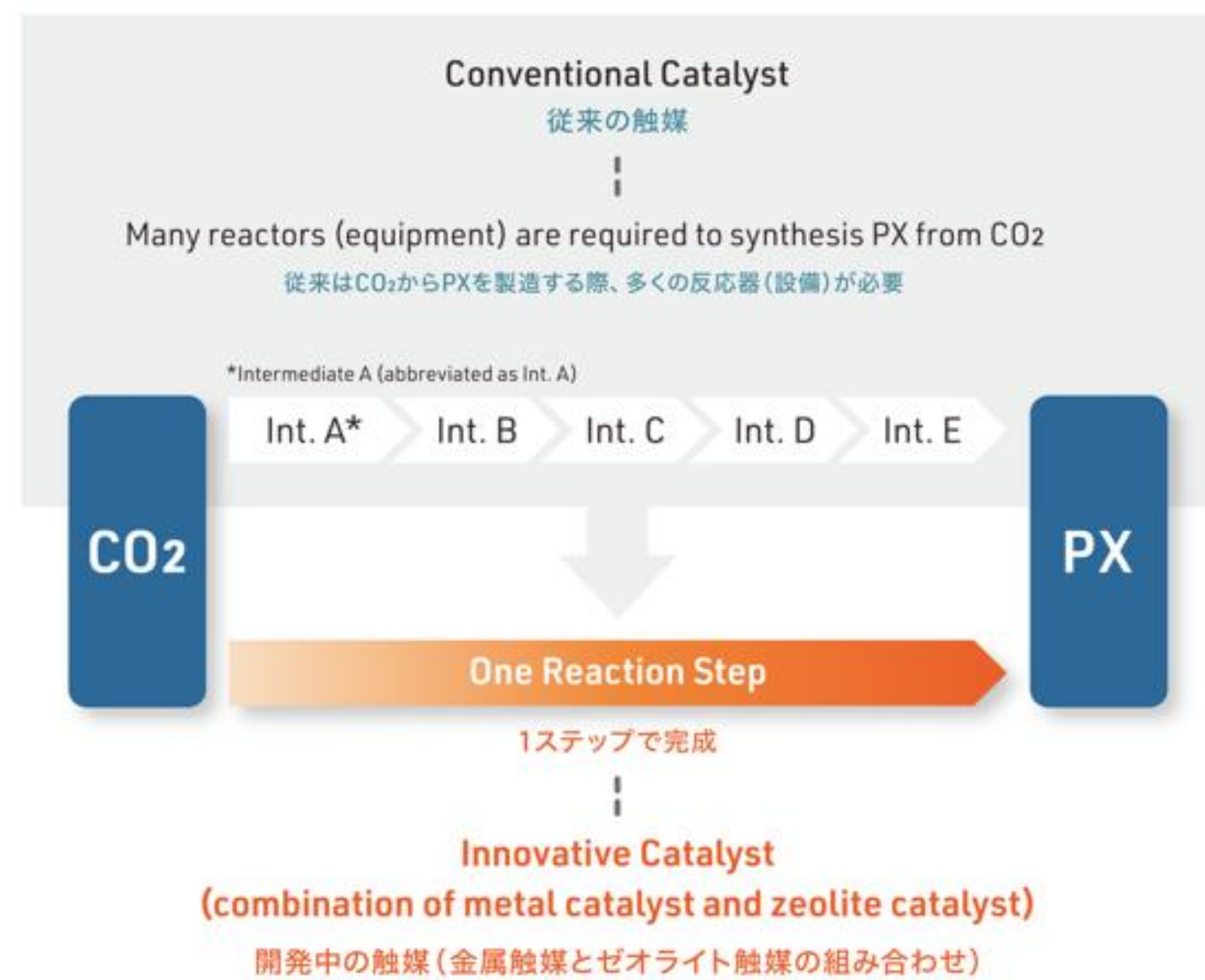


- p-Xylene (PX):
Key chemical for polyester and PET production
 - Developing innovative technology to produce PX from CO₂ and H₂ (NEDO* project: 2020-2025)
 - Contributing to material decarbonization with carbon capture and utilization technology
- *NEDO New Energy and Industrial Technology Development 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
 - ・CO₂、H₂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]

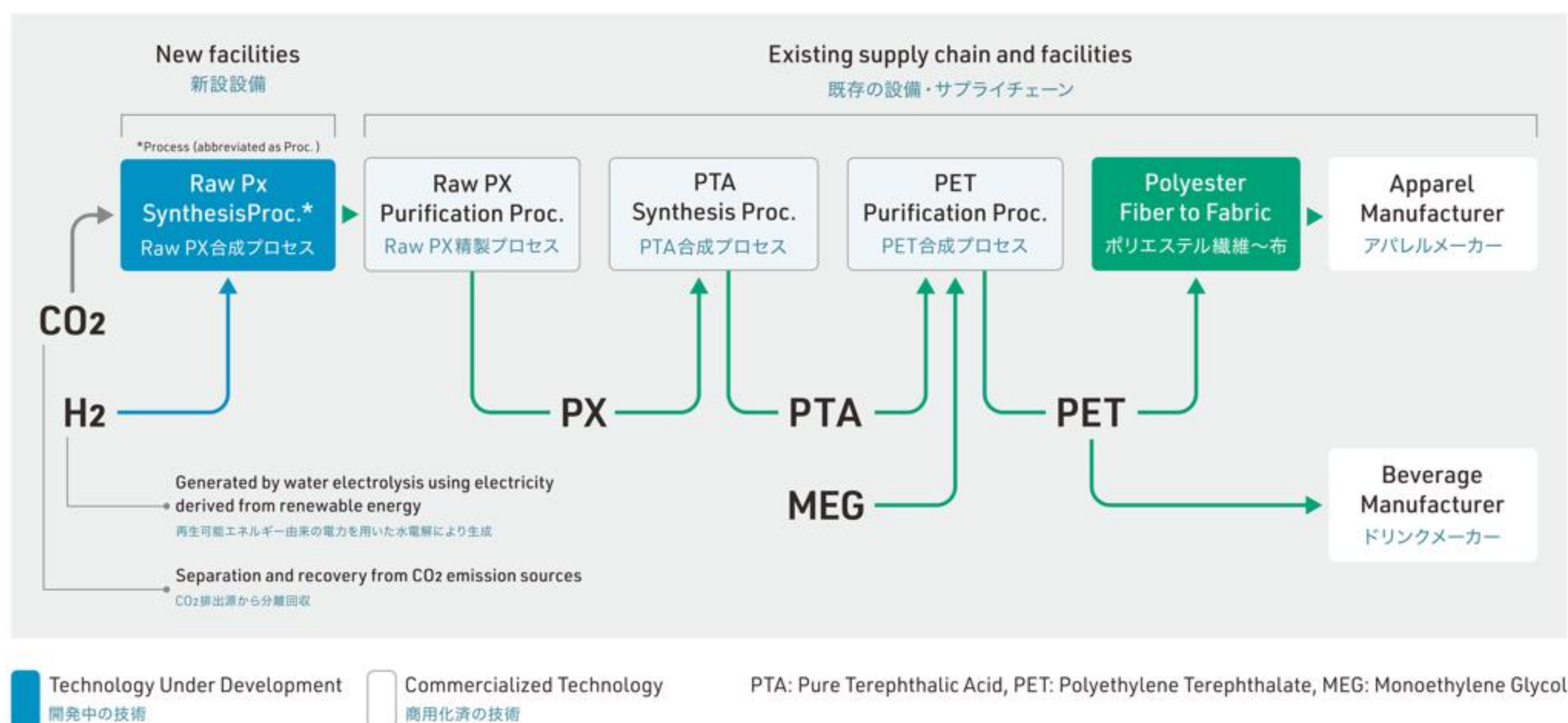
Innovative Catalyst [e-PX 触媒の革新性]

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 CO₂-based p-Xylene can utilize the existing supply chain by leveraging current refinery process
CO₂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]



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