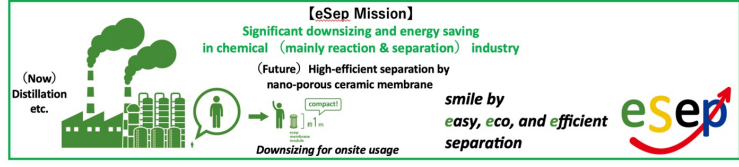
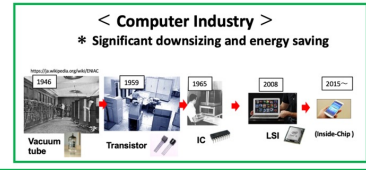
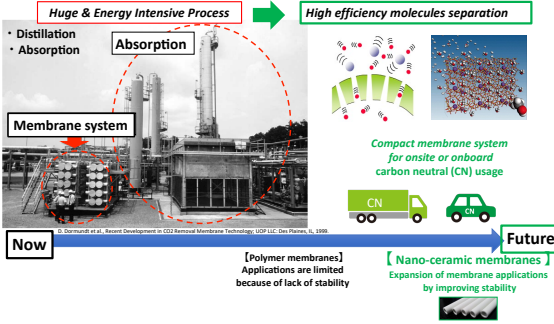


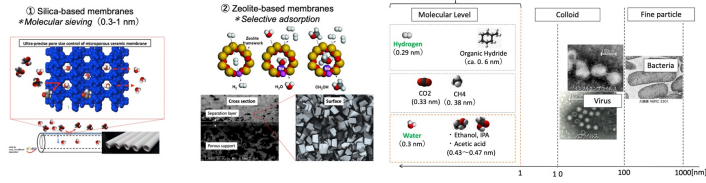
1. Background

Downsizing & Reducing Energy Consumption
by improving performance of nano-porous ceramic membranes

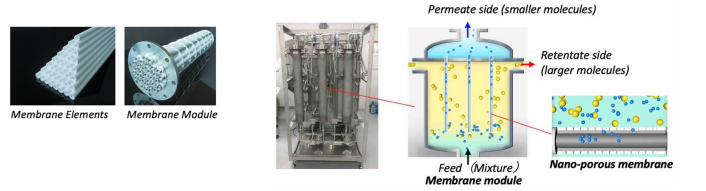


2. Core Technology & Business (nano-porous ceramic membranes)

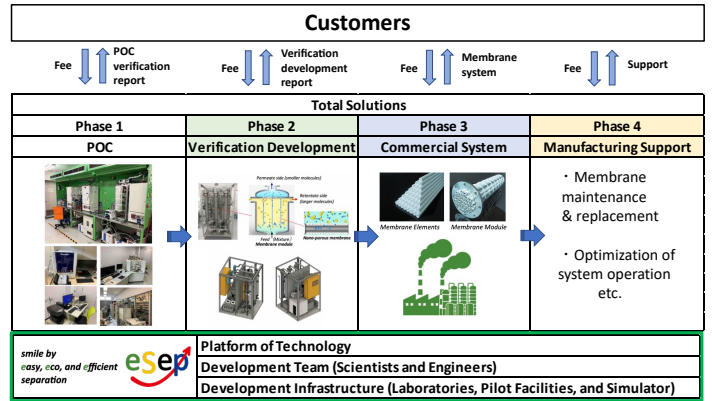
* Nano-porous ceramic membranes



* Membrane separation & reaction system



Technology platform for nano-porous ceramic membranes

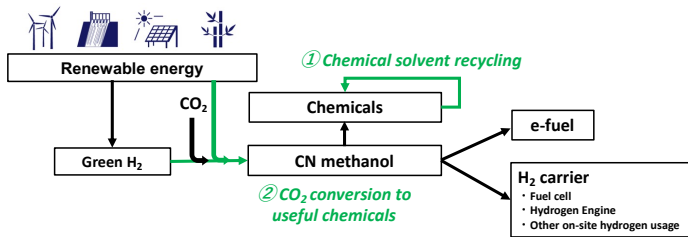


Total solutions from R&D to engineering for customers
to realize carbon neutral chemical processes

3. R&D

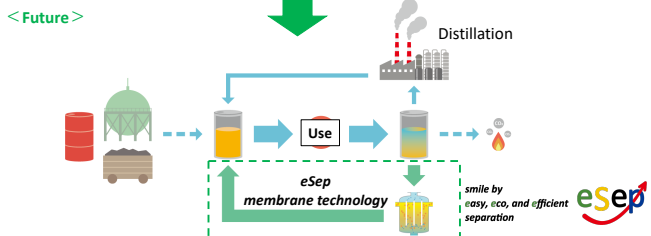
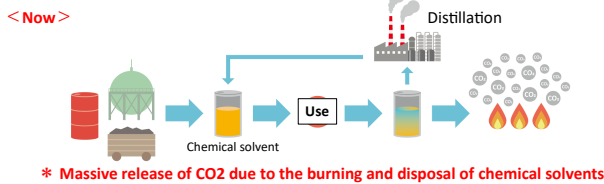
[eSep Vision]

Carbon neutral (CN) initiatives led by eSep

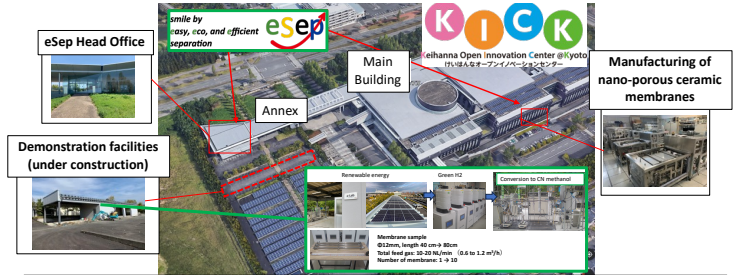


smile by
easy, eco, and efficient
separation **eSep**

① Chemical solvent recycling



Development of small-scale demonstration facilities of carbon neutral chemical processes
at Keihanna Open Innovation Center @ Kyoto(KICK)



[Milestone / Schedule]
Step 1 (2022-2023): Construction of experimental facilities
Step 2 (2023-2024): Small-scale demonstration
Step 3 (2025-): Demonstration of developed carbon neutral process/product at Osaka(Keihanna) EXPO

② CO₂ conversion to useful chemicals

