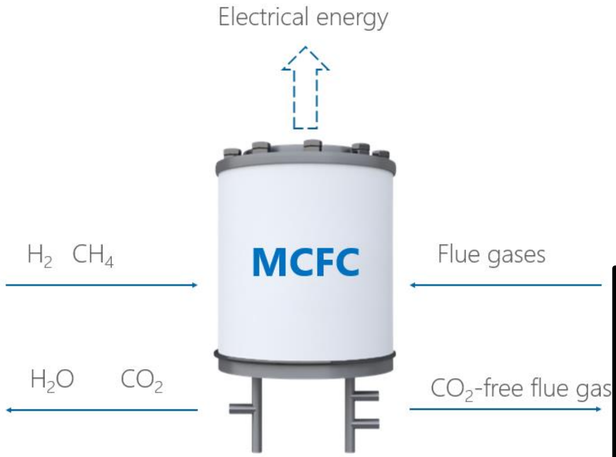
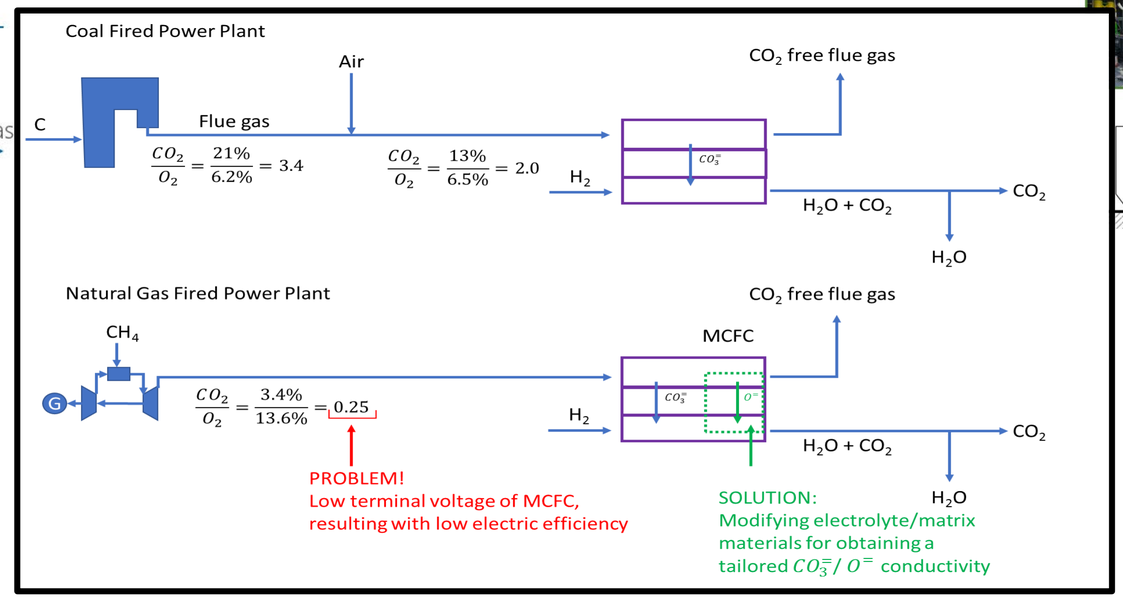
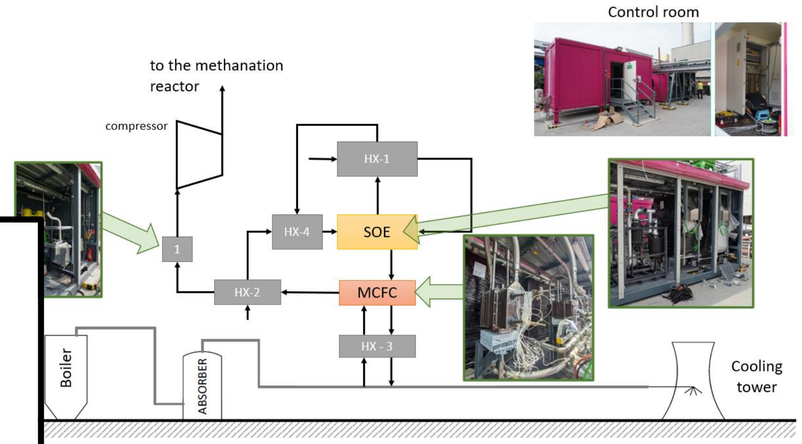
Norway

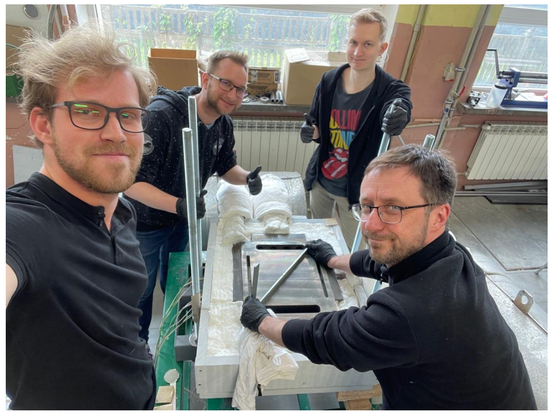
The National Centre for Research and Development

Warsaw University of Technology









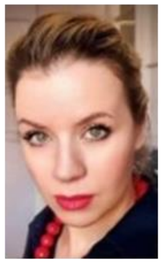
Material	Stability Towards Carbonates	Oxide Ion Conduction	Wettability	Sintering Temperature
YSZ ($Y_{0.08}Zr_{0.92}O_2$)	High	Low	High	>1400 °C
GCO ($Gd_{0.2}Ce_{0.8}O_2$)	Intermediate	Intermediate	High	>1300 °C
BTM ($Bi_{0.8}Tm_{0.2}O_{1.5}$)	Low	High	Intermediate	950 °C
BPR ($Bi_{0.8}Pr_{0.2}O_{1.5}$)	Low	High	Low	950 °C
BYS ($Bi_{0.8}Y_{0.15}Sm_{0.05}O_{1.5}$)	High	High	Low	950 °C
BYO ($Bi_{0.8}Y_{0.2}O_{1.5}$)	High	High	Low	950 °C
LSGM ($La_{0.8}Sr_{0.2}Ga_{0.8}Mg_{0.2}O_3$)	Unknown	Intermediate	Unknown	>1100 °C
Ba doped $Na_{0.5}Bi_{0.5}TiO_3$ (Ba-BNT)	High	High	High	1100 °C
LAMOX ($La_2Mo_2O_9$)	Unknown	Intermediate	Unknown	1300 °C
$La_{0.5}Na_{0.5}TiO_3$ (LNT)	High	High	High	1500 °C

High Intermediate Low Unknown

Modular system based on Molten Carbonate Fuel Cells with tailored composite membranes designed for specific flue gas compositions oriented into CCS integration with an industrial power plant NOR/POLNORCCS/MOLCAR/00-17/2020-00

Team of MOLCAR project

Jarek Milewski
Principial Investigator



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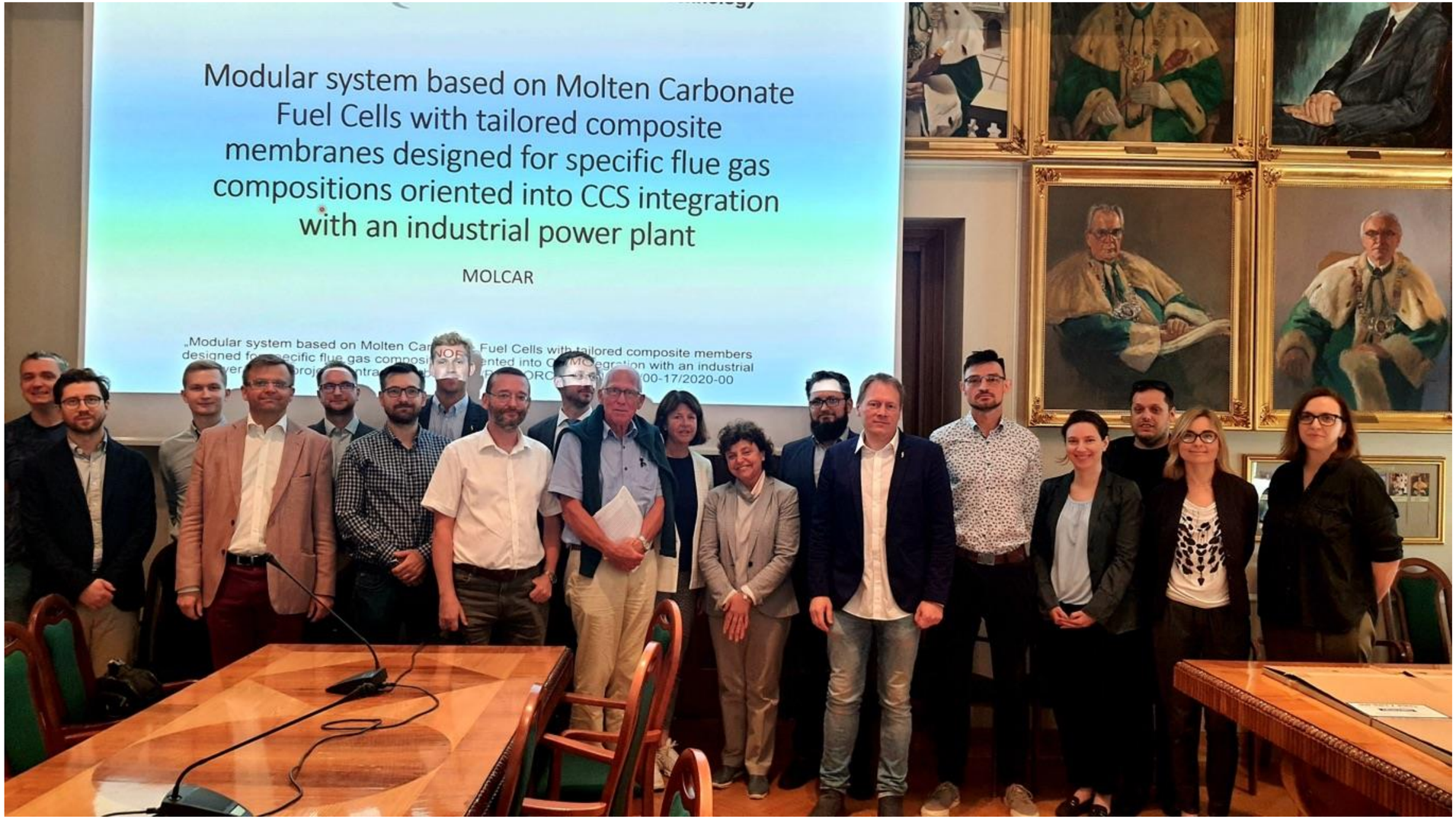

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