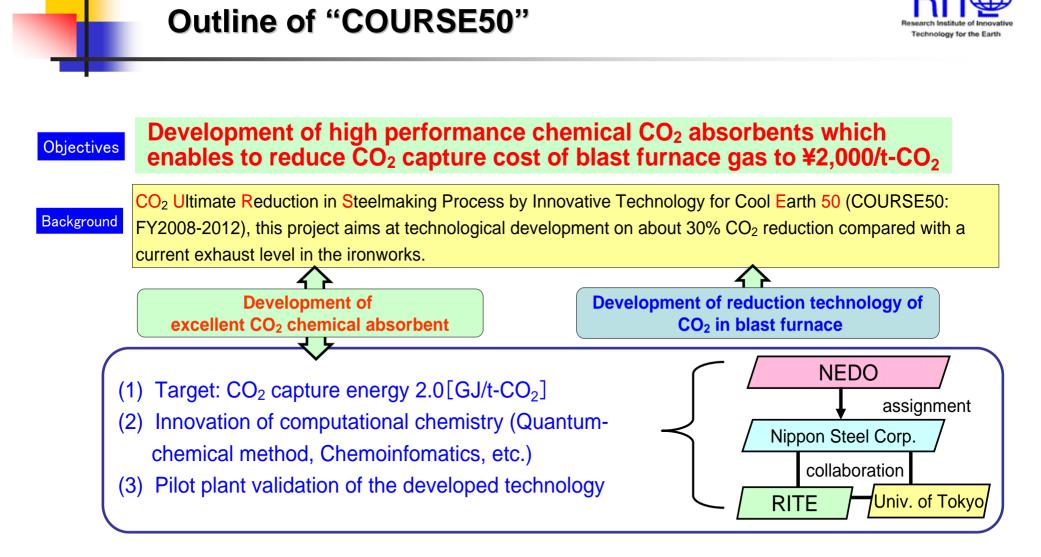


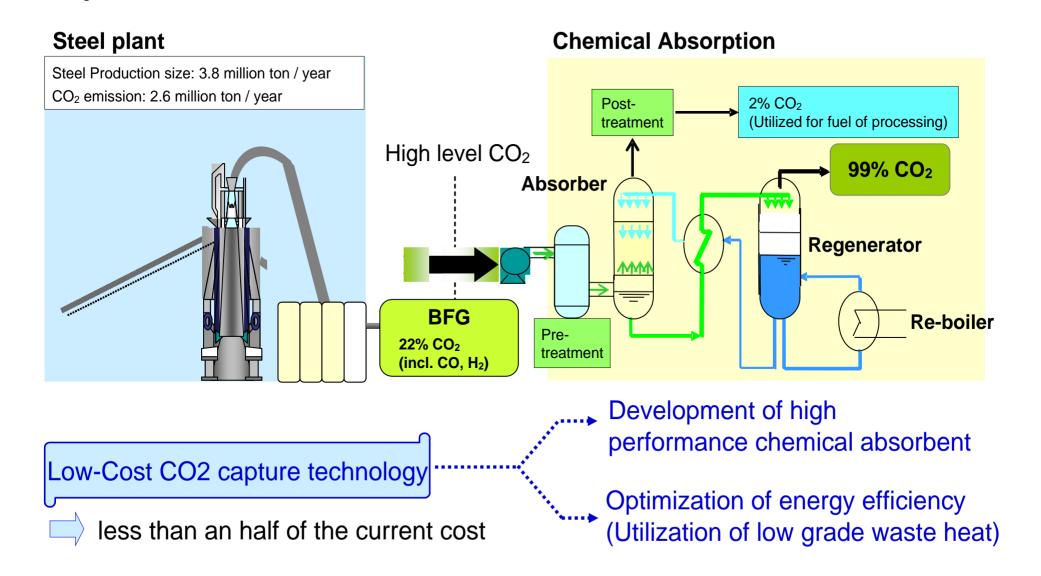
Development of CO₂ capture technology by chemical absorption "COURSE50 project"

Chemical Research Group Research Institute of Innovative Technology for the Earth (RITE)

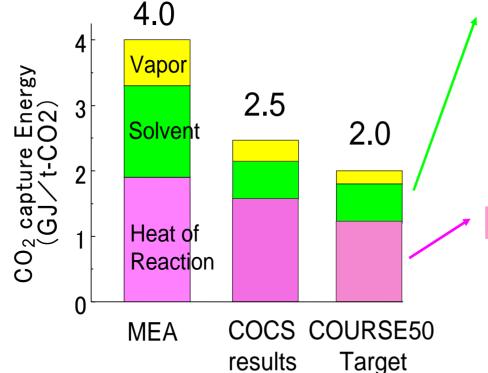


Outline of CO₂ capture from blast furnace gas









Target Performance

- Improvement of CO₂ capture capacity and higher concentration of absorbent
 → Reduction of absorbent volume
 Improvement of CO₂ absorption rate
 20% reduction of bloct of Departien
- (3) 30% reduction of Heat of Reaction

Absorbent Quality

- (1) Higher durability against impurities in BFG
- (2) Lower corrosiveness for equipment
- (3) Lower volatility