

IRON POWER

POWER & FLOW GROUP @ TU/e

Presenter: Conrad Hessels



CONCEPT

Reduction / combustion

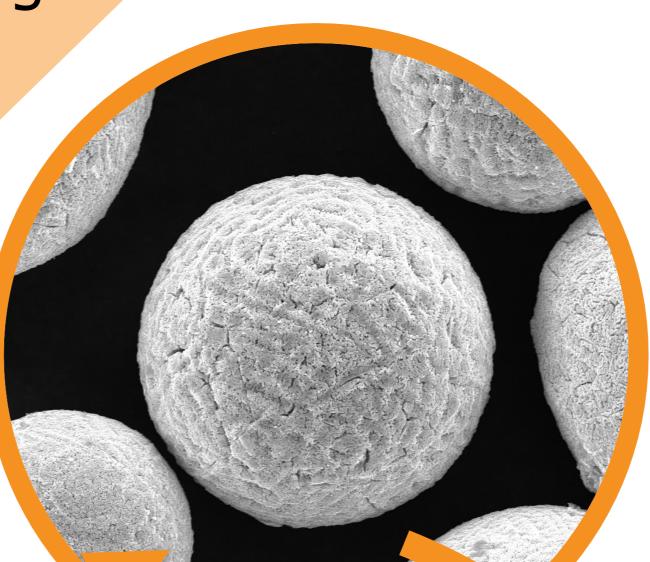
Dense energy storage

■ 1L iron ≈ 1L coal

Abundant & safe

■ $Fe+O_2\rightarrow Heat$

■ $Fe+H_2O\rightarrow H_2$









CURRENT

Concept proven

First pilots running

18 PhD & PostDocs

Metalot, RIFT & Iron+

FUTURE

Cyclic analysis

Alloying/feedstock

Fundamental → applied

Ecosystem development

Funded by: o.a. ERC, NWO, ChemistryNL, ESA, Province Noord-Brabant, Netherlands Enterprise Agency, Shell, Pometon





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