

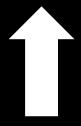


About power generation

Clean words: Battery, electricity, renewable, solar, wind, zero-emission ...

Clean/words!sCombustion, fuels, scombustion engineses....

new fuels



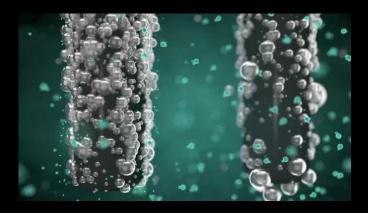
new engines

What does P&F Group do?



Clean energy pipeline enabled by hydrogen

Electrolysis—Produce H₂ from water

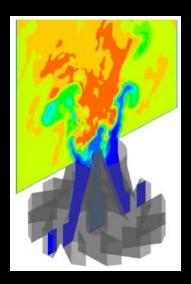


Understand and control bubbly flows (Prof. Niels Deen, Dr. Yali Tang)

→ Burning H₂ to generate power



Advanced CFD modelling of H₂ combustion (Profs. Jeroen van Oijen, Bart Somers, and Rob Bastiaans)





Clean energy pipeline enabled by hydrogen

Build new engines burning hydrogen and e-fuels for heavy-duty vehicles







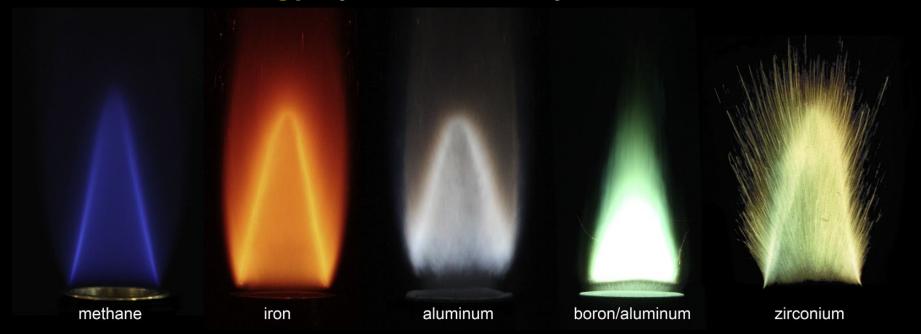




Zero Emission Laboratory (ZELab) (Prof. Bart Somer, Dr. Noud Maes)



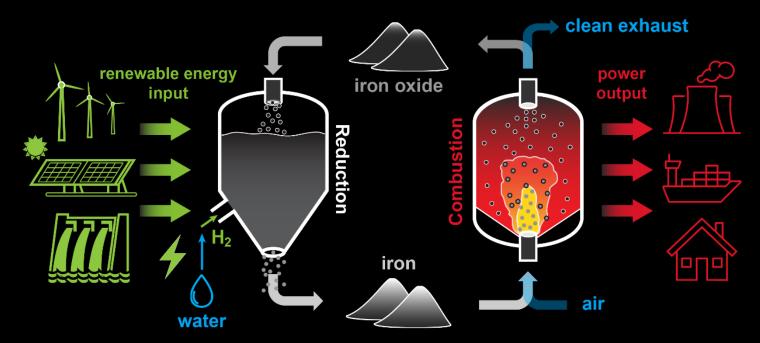
Renewable energy cycle enabled by metals



Metal powders (micron-sized particles) can burn like a gaseous fuel.



Use iron powder as a carrier of renewable energy



Research on *iron-oxide reduction*(Prof. Niels Deen, Drs. Yali Tang
and Giulia Finotello)

Research on *iron combustion*(Profs. Philip de Goey, Jeroen van Oijen,
Benedicte Cuenot, Dr. Xiaocheng Mi)



Use iron powder as a carrier of renewable energy

Burners of iron powder in laboratory



Student Team collaborating with the Power & Flow Group



To build industrial-scale combustors:

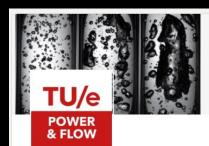






To know more about Power & Flow Group

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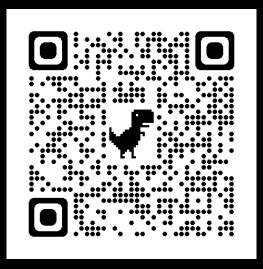


Research Group Power and Flow, Eindhoven University of Technology

Power & Flow focuses on clean and efficient combustion and process technology, to cater for fast-growing energy demands.

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Or scan the QR code:



Xiaocheng Mi's contact info

Email: x.c.mi@tue.nl

Office: Gemini-South 2.142

Thank you all for your attention! ©

