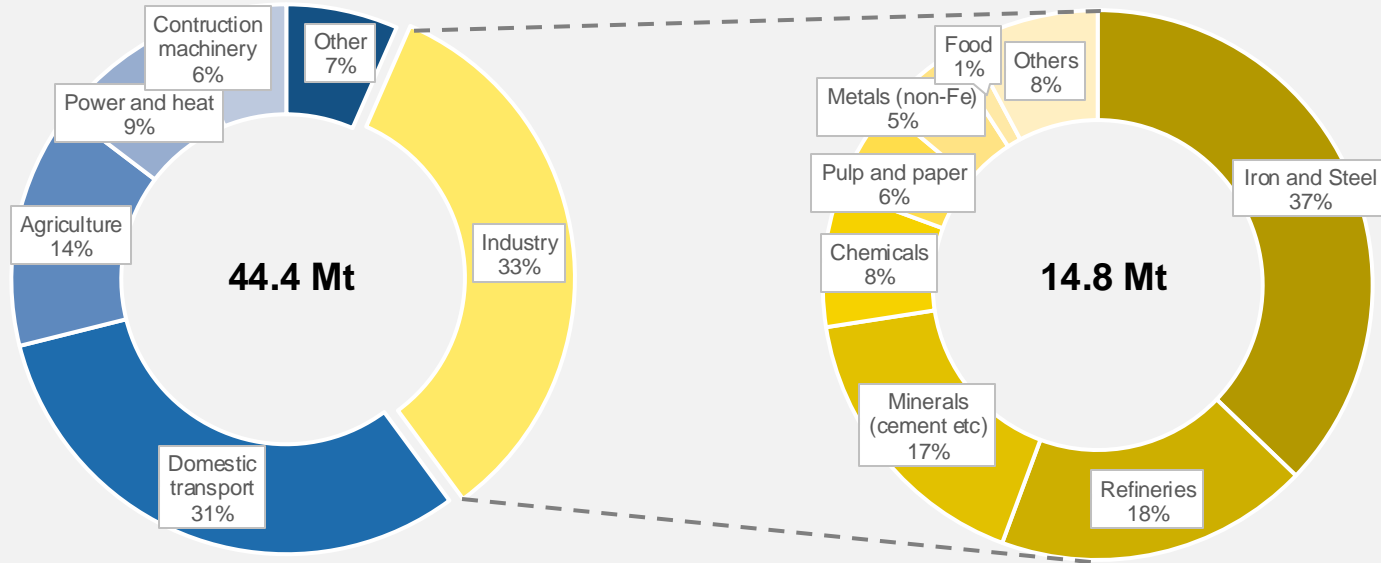




Groundbreaking initiatives in industry decarbonisation

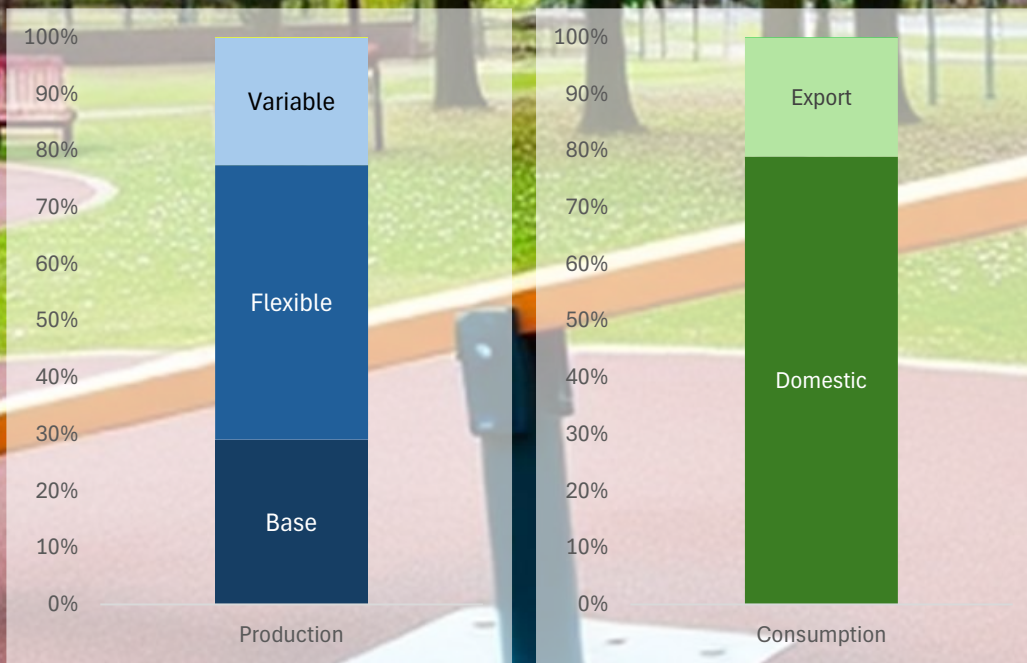
Mikael Nordlander, Vattenfall
13 March 2025

Decarbonising industry is urgently needed – but how?

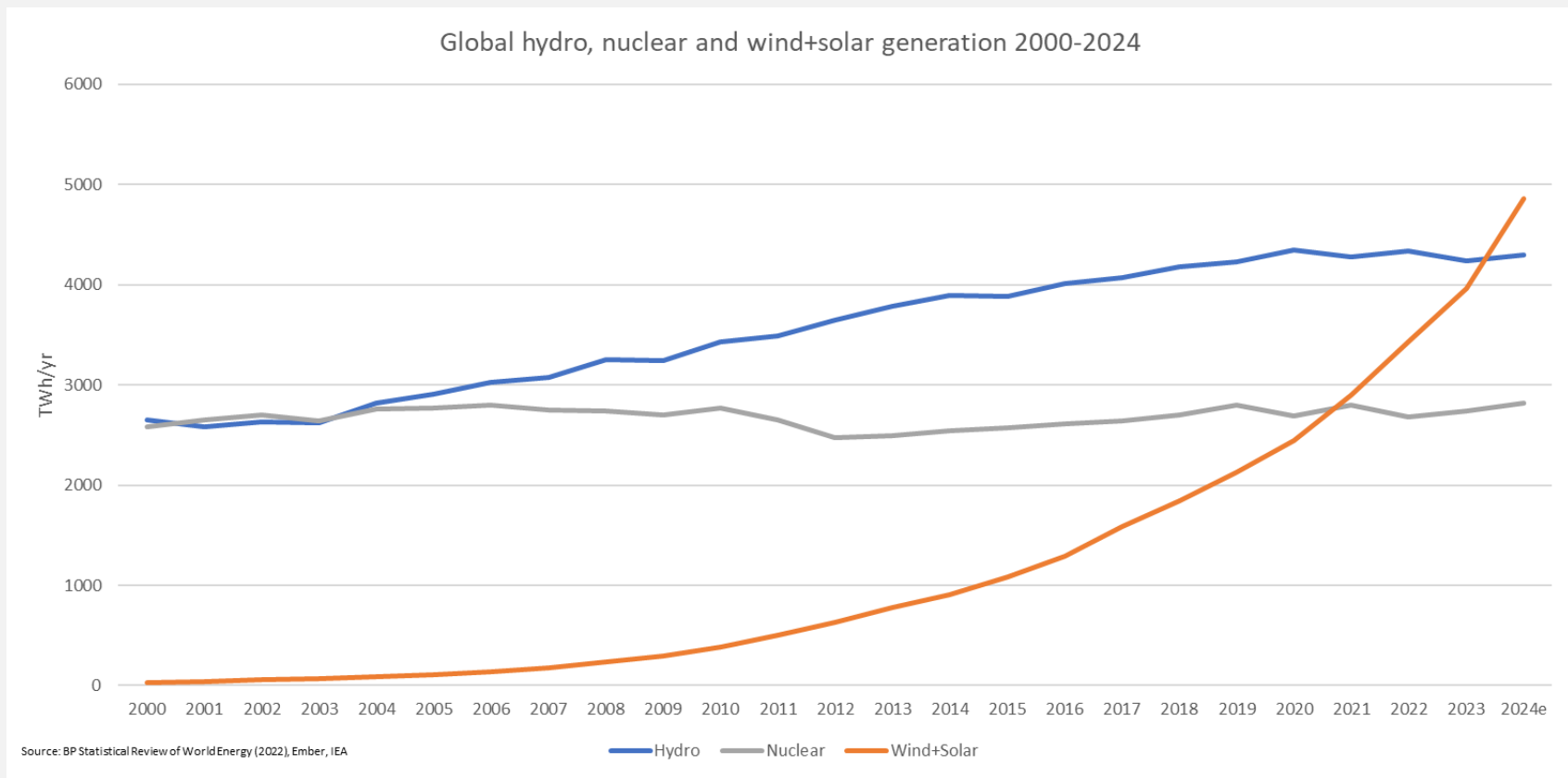


Why in Sweden

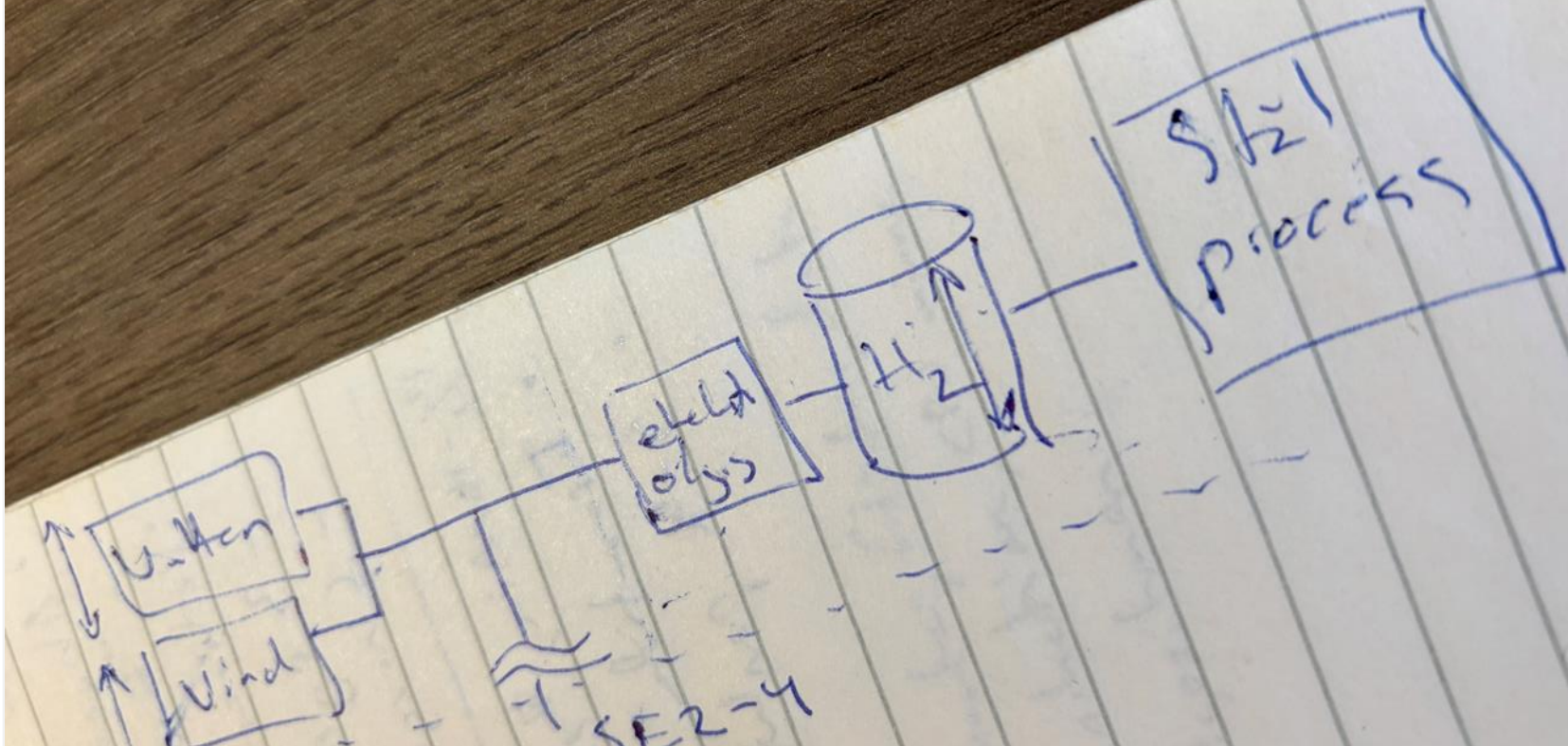
The starting point for electrification is great



Fossil free energy seems to come as electricity

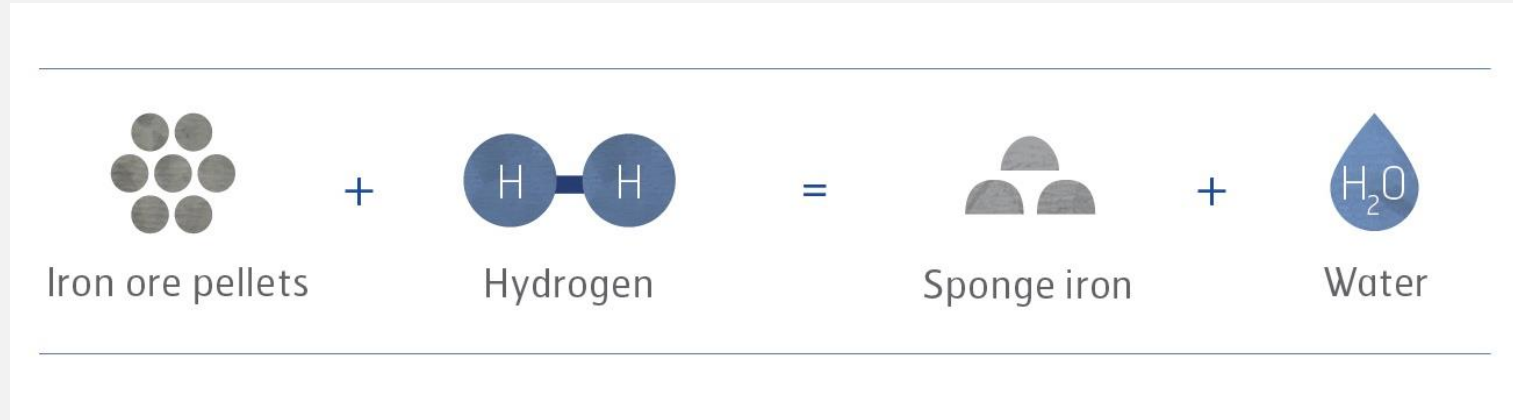


In 2015 we got an idea...



The hypothesis in 2015

What if we could...



HYBRIT

– a new value chain
developed in 8 years



2016
Cooperation
for fossil free
iron & steel

SSAB

 **LKAB**

VATTENFALL 



€200 M
invested
In development



4 years
of pilot plant
operation



5000t
H2-DRI
produced



2024
Process verified,
investment decisions in
progress



175
process points
explored



Multiple
number of
customer tests



Only H2-DRI
pilot plant in
the world

HYBRIT pilot plants

Hydrogen storage



HYBRIT pilot plants

Hydrogen storage



HYBRIT pilot plants

Hydrogen storage



HYBRIT pilot plants

Hydrogen storage



HYBRIT pilot plants

Hydrogen storage





Thank you

Mikael Nordlander, Vattenfall

