

# HYDROGEN & PTX

Sectoral integration,  
green transport  
& new export markets

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# Hydrogen Denmark – who are we?

The gateway to hydrogen and PtX in Denmark

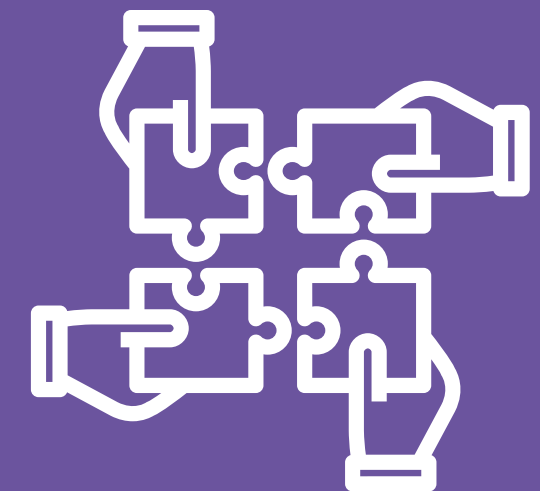
We represent the entire chain – from innovation to invoice



**RESEARCH**



**INDUSTRY & BUSINESS**



**INTERNATIONAL  
COOPERATION**

# What is PtX

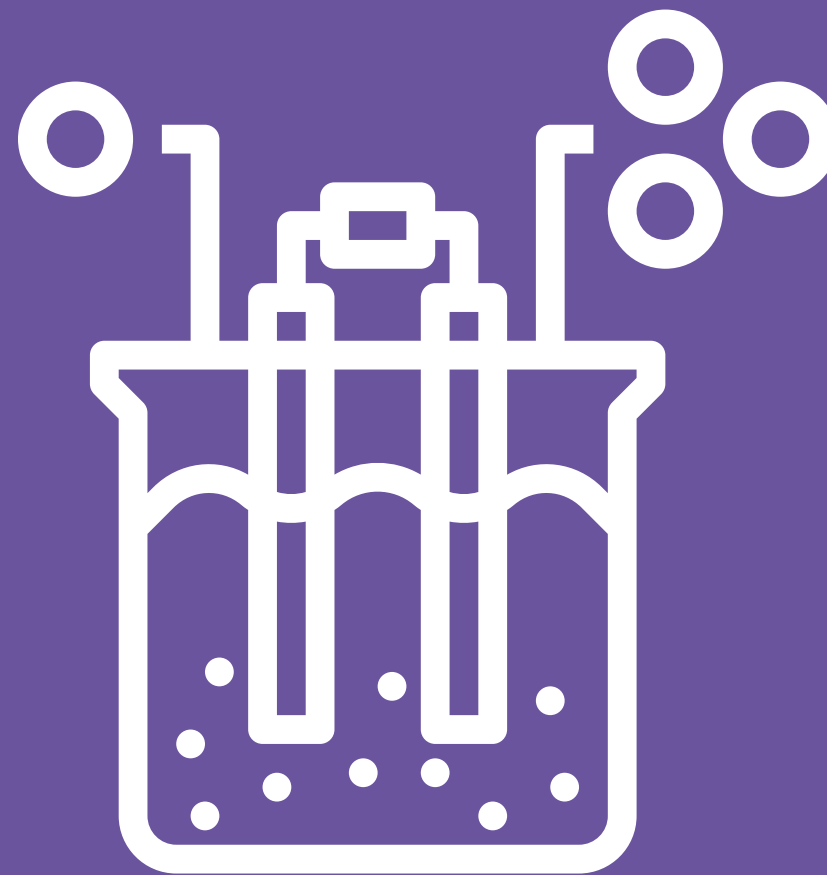
## - and why is it good?



- Conversion and storage of RE
- Transferral of RE to CO2 heavy sectors
- Enables massive expansion of RE

Power → to → X

Step 1: Electrolysis



# Why is energy conversion good?

Storage of RE

Effective utilization of surplus electricity

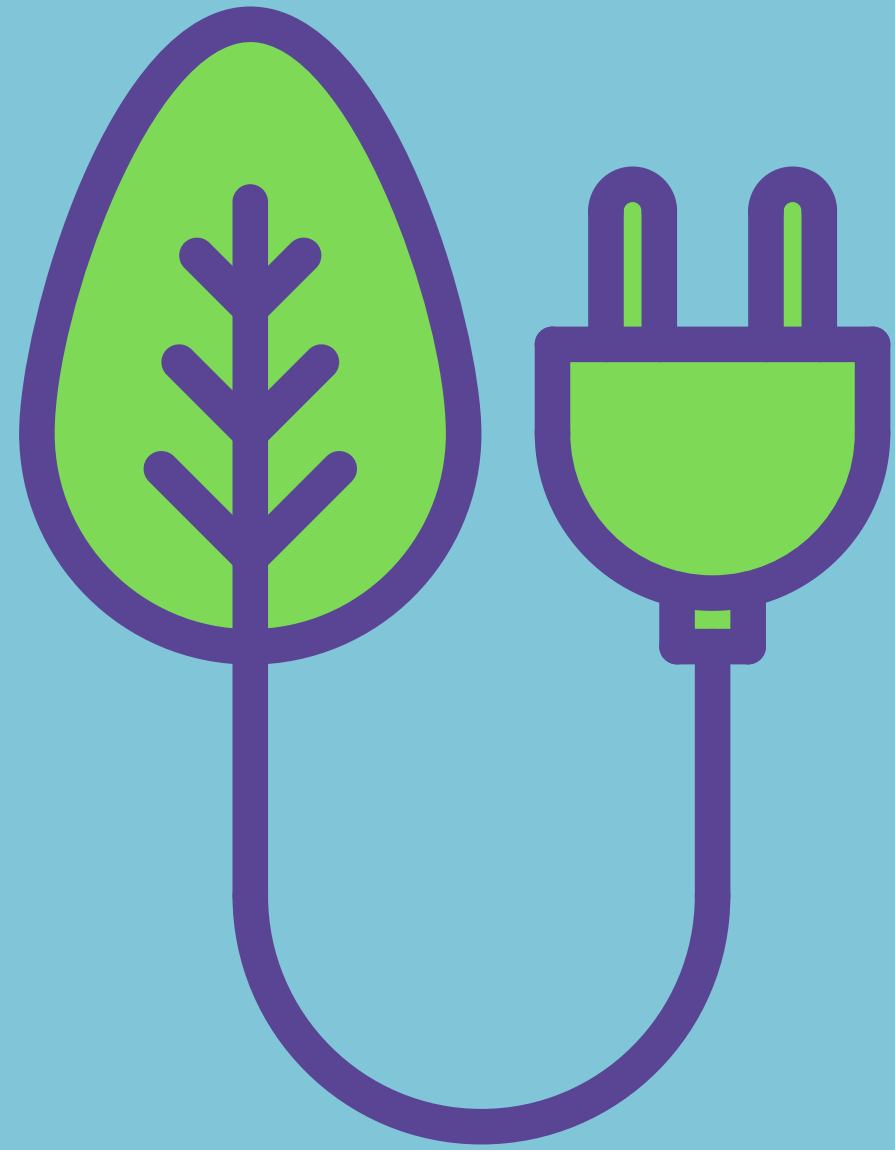
Green hydrogen can replace black hydrogen

Hydrogen can be used in e.g. transport

Hydrogen can be refined into other high value products

Strong Danish value chain for hydrogen and fuel cells

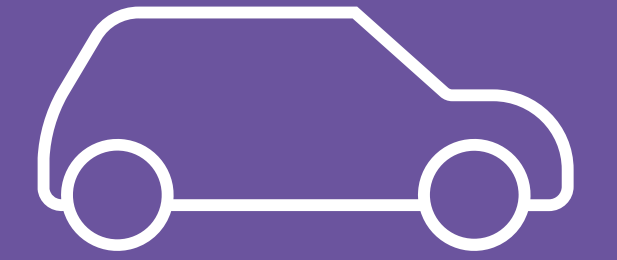
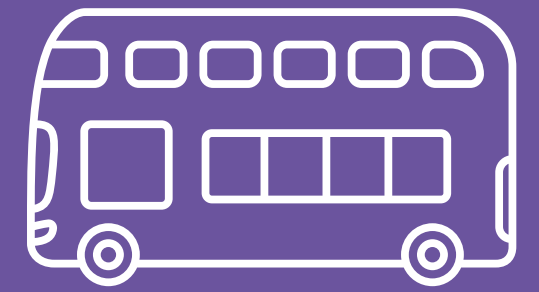
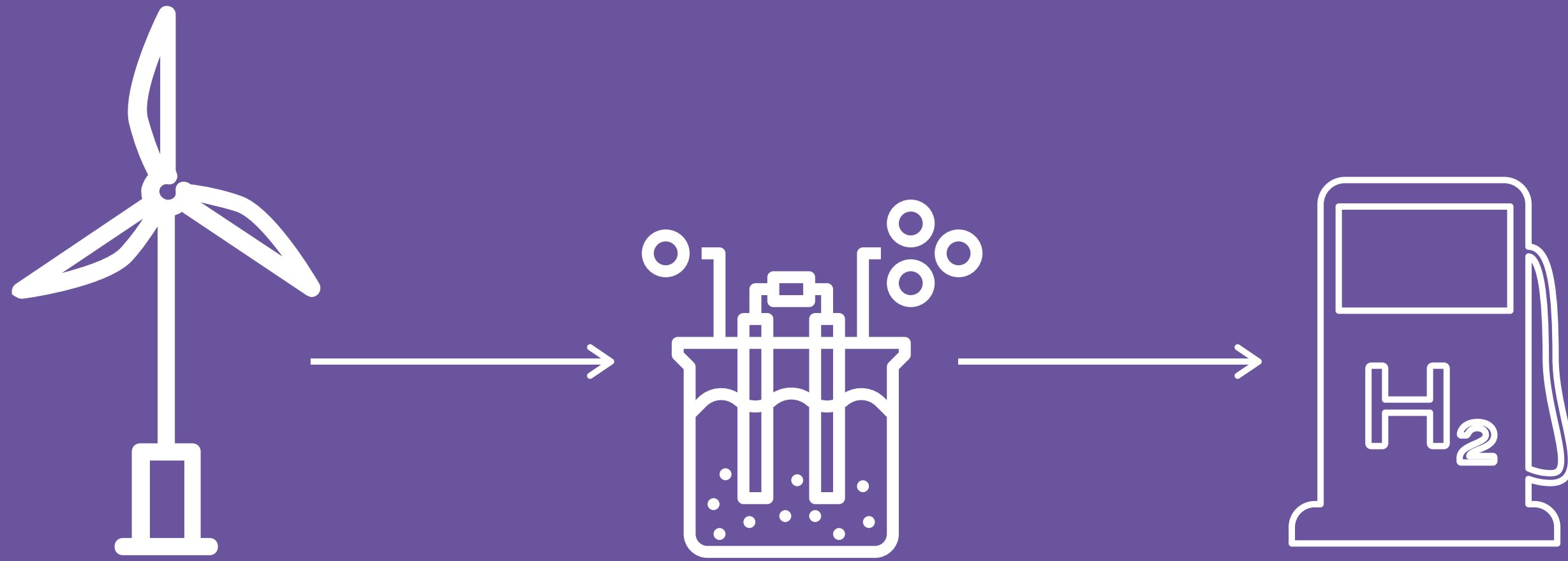
New business and export markets



# Hydrogen ensures electrification

Green energy for the sectors that cannot  
be 'plugged in'

# Hydrogen for transport



Hydrogen is the  
Swiss army knife  
of the energy  
system



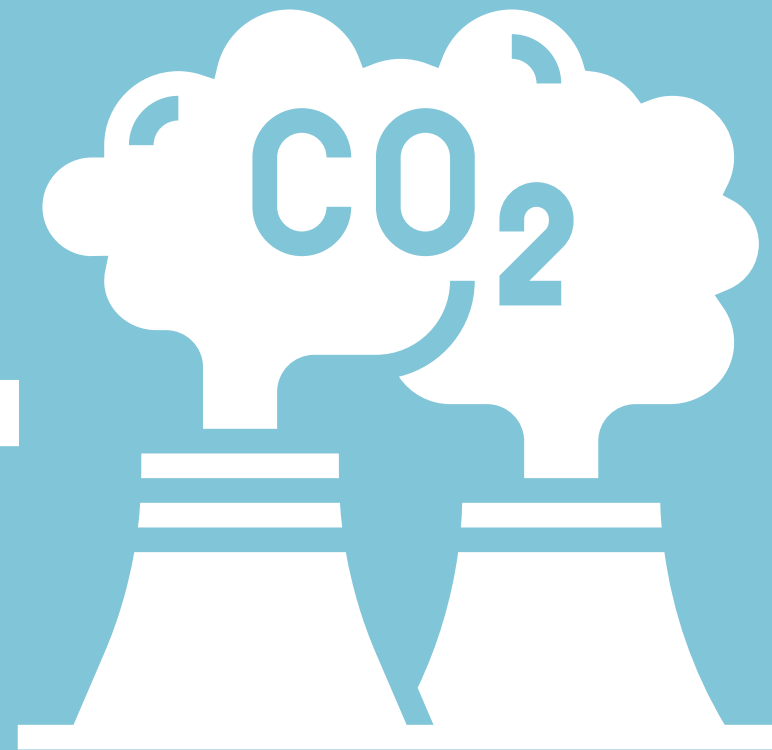


Power → to → X

Step 2: Refinement



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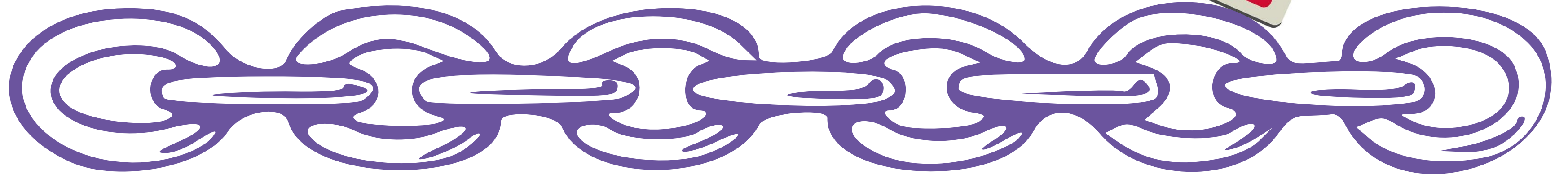
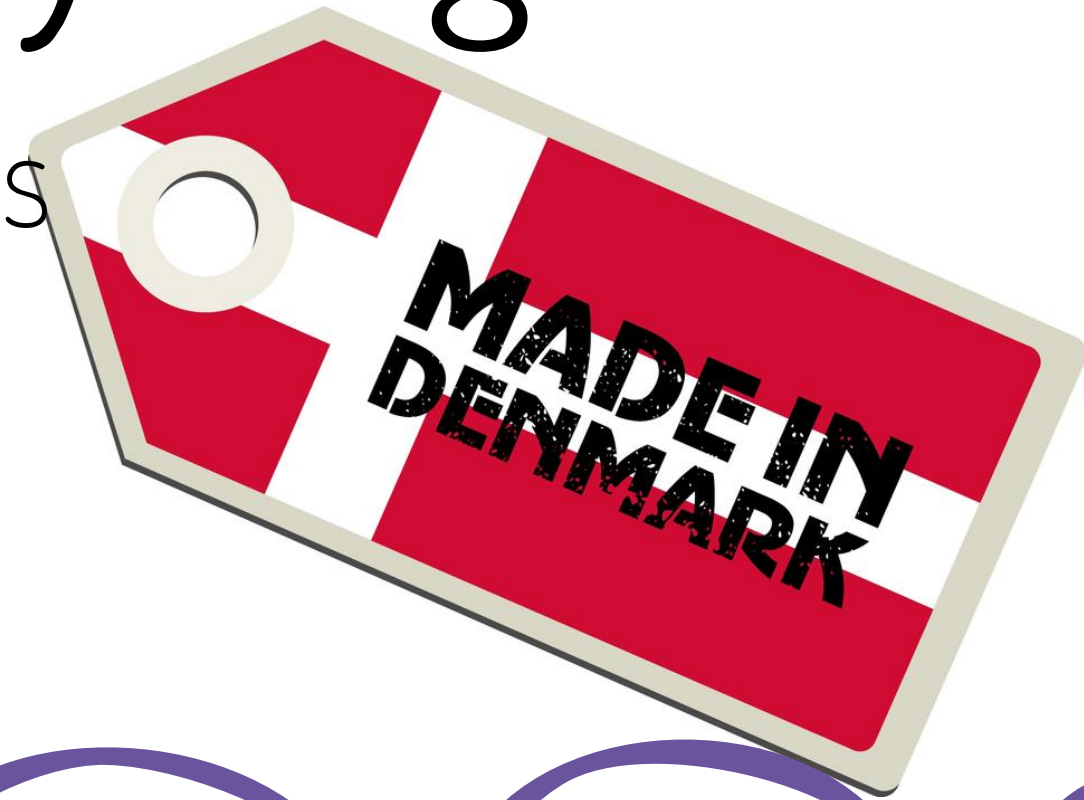
# Denmark is the world champion in RE

That titell must be defended via hydrogen and PtX



# Danish value chain in hydrogen and PtX

Green transport and new export fairytales



Energy production

Electrolysis

Infrastructure

Hydrogen solutions  
for transport

# PtX to do:

Expansion of RE

Industrial large-scale PtX and CCUS

Expansion of hydrogen infrastructure

Political priority of home market

