

IEA Hydrogen meeting, Paris

11 Feb 2019, Mikael Nordlander

Fossil free steel with SSAB/LKAB

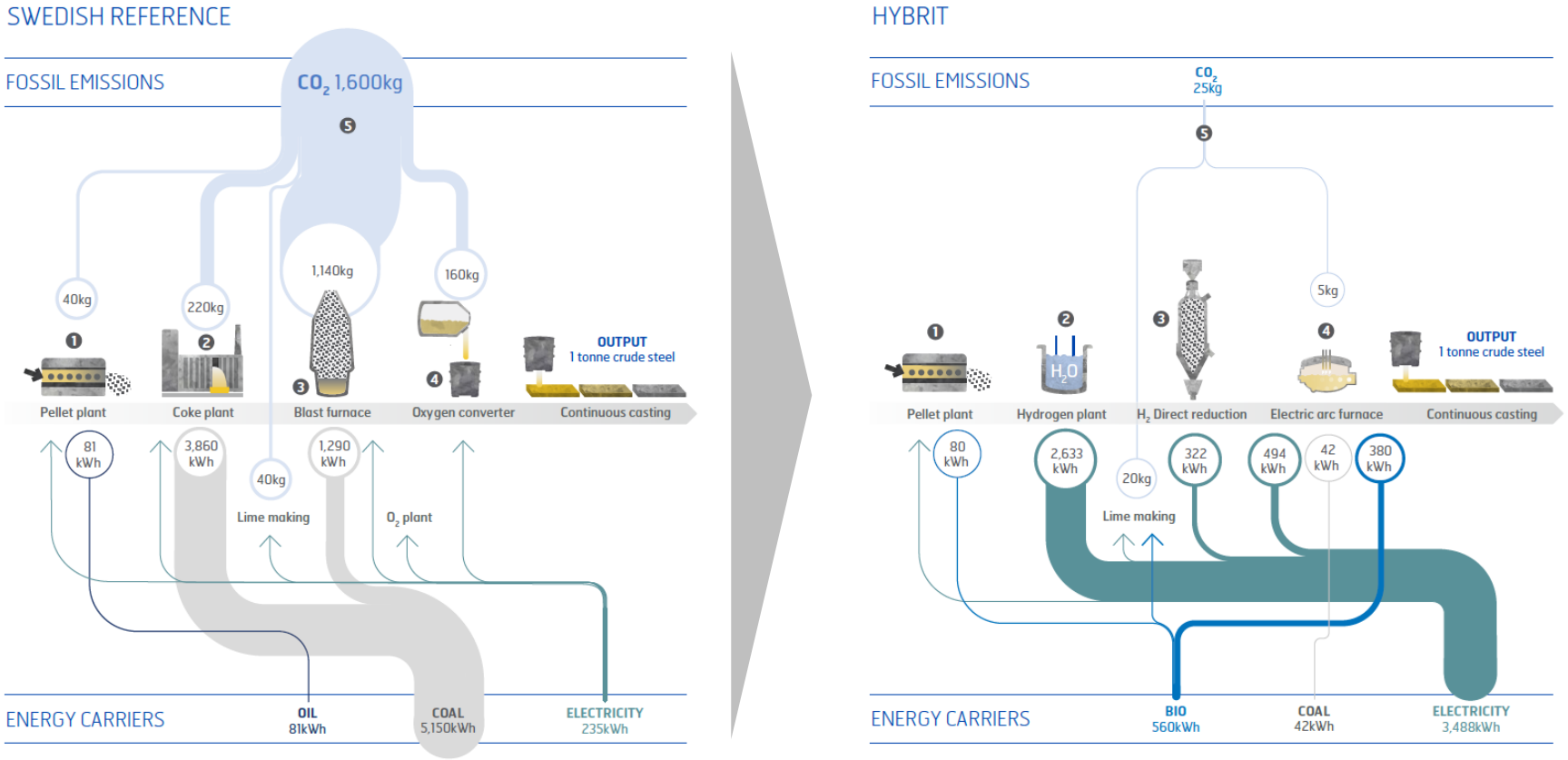
LKAB SSAB VATTENFALL

HYBRIT
FOSSIL-FREE STEEL



Confidentiality – None (C1)

Close to complete elimination of CO_2

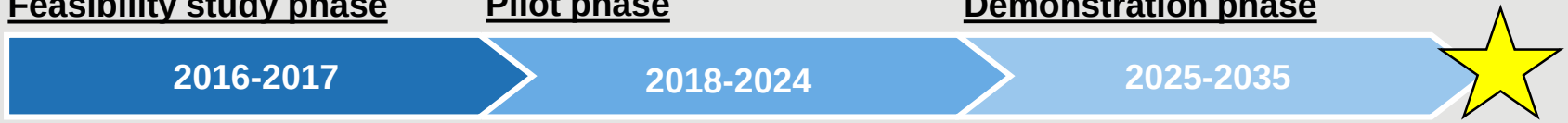


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HYBRIT roadmap

Feasibility study phase | **Pilot phase** | **Demonstration phase**



2016-2017

Feasibility study

2017

Joint venture formed

2017

Start of 4 year R&D program

2018

Pilot plant “green light” decision

2018-2020

Construction of pilot plant

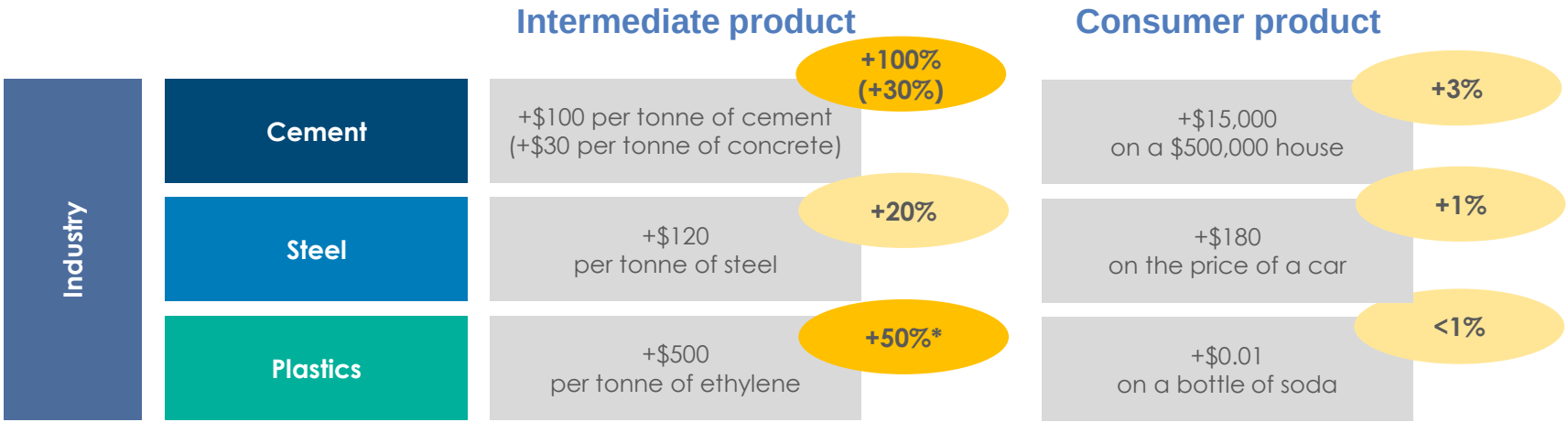
2020-2024

Pilot plant trials

Value chains seem feasible – but need to initiate markets for “green products”

Impact of decarbonization on product cost

US$ / % price increase



Confidentiality – None (C1)

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Source: SYSTEMIQ analysis for the Energy Transitions Commission (2018)