

Economic position of existing nuclear power plants in today's electricity markets

Mats Ladeborn

Vice President Fleet Development, Vattenfall

Fossil free within one generation – a powerful message



At Vattenfall we exist to help all of our customers power their lives in ever climate smarter ways and live free from fossil fuel within one generation

"THE MOST IMPORTANT BOOK ABOUT
CLIMATE CHANGE SINCE AN INCONVENIENT TRUTH."
—from the foreword by **STEVEN PINKER**

A BRIGHT FUTURE



How Some Countries
Have *Solved Climate Change*
and the Rest Can Follow

JOSHUA S. GOLDSTEIN
STAFFAN A. QVIST



41,5%



38,5%



10,5 %

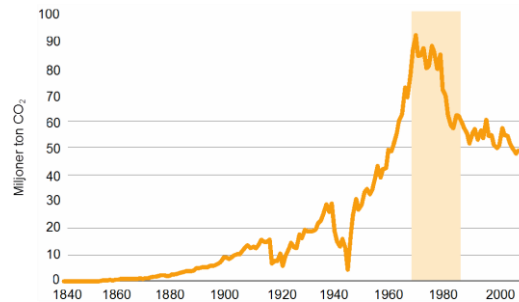
More than the present Swedish consumption

Politics govern



1900

1970



Swedish energy agreement 2016



Terminated the nuclear tax, no political end-date

Nuclear the 'ideal way' for dealing with climate change, says Bill Gates

Bill Gates

02 January 2019

Bill Gates has written in his year-end blog that nuclear power is "ideal for dealing with climate change". The technologist, business leader, and philanthropist wrote about nuclear power in a section about energy in his 29 December article *What I learned at work this year*.



Bill Gates (Image: Getty Images)



2018 election campaign for Swedish Parliament

Demand for LTO



Project for fossil free steel



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Cooperation for large scale production of bio diesel



VATTENFALL 

Study on electrification of cement production



VATTENFALL 

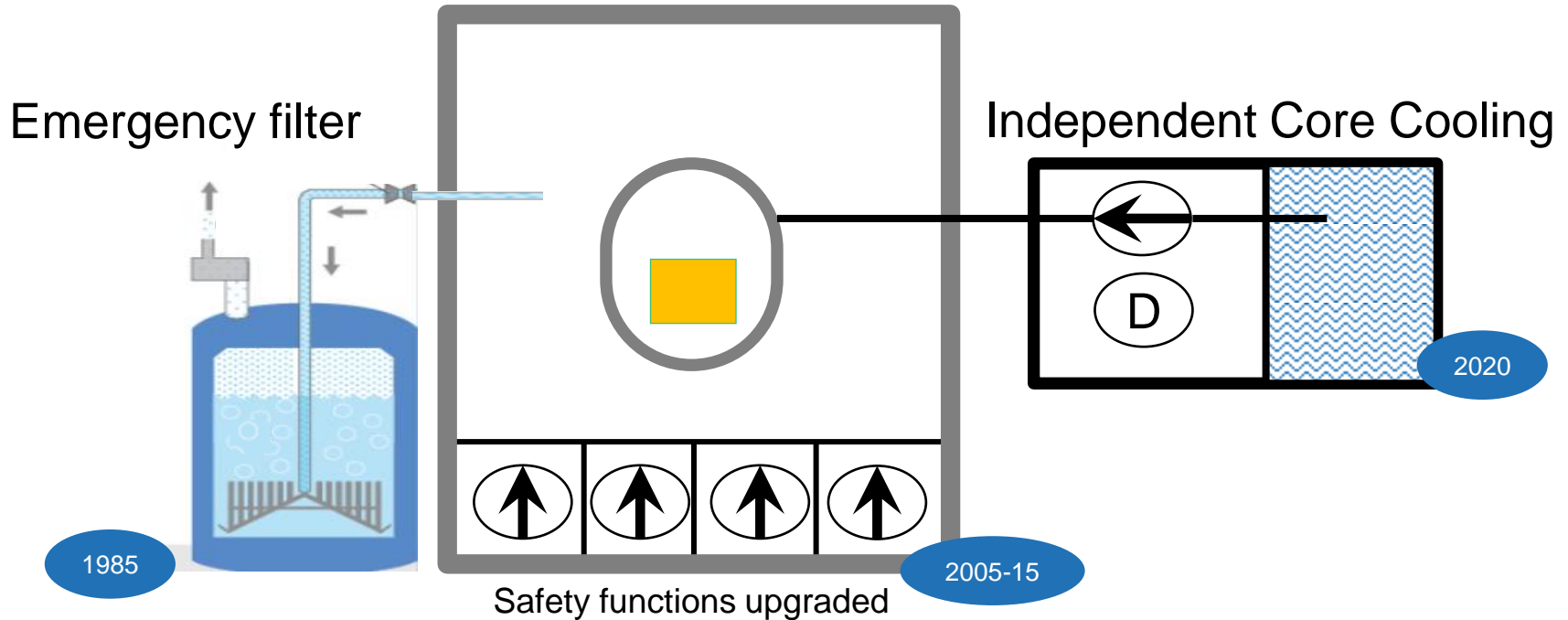
Northern Europe's largest charging network for electric cars



VATTENFALL 



Nuclear Safety for LTO

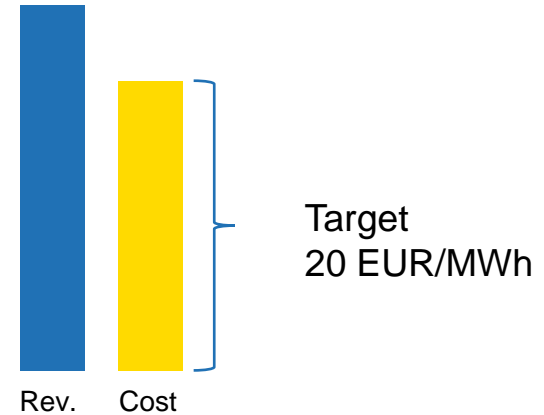


Challenges for LTO

Attracting young talents



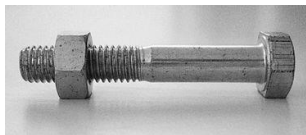
Commercially viable



Cost-efficiency of nuclear power can be improved



- A car, ca. 30 000 components
- Several electronic systems and mechanical components that contribute to safety
- **Price incl. taxes 19 000 €**



- 64 bolts and nuts for flanged connection of pipes
- Safety class 2
- **Price excl. taxes ca. 20 000 €**
- Off the shelf without certificates, ca. 160 € (Source TVO)



Aviation – Medicine – Petroleum- Marin