



Kyiv
International
Economic
Forum

“At Vattenfall, we exist to power climate smarter living”

To help all of our customers to power their lives in ever climate smarter ways
and to become free from fossil fuel within one generation

By

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5-6 OCTOBER 2017. KYIV. UKRAINE. CEC PARKOVY

Ukraine and The World in The New Economic Reality

ACTIVITIES ON ALL LEVELS TO BE FOSSIL FREE

➤ **Climate neutral in 2050 (2030 in Nordic)**

➤ **Enable our customers and partners to reach their climate targets**

- Offer products and services with a clear climate footprint (LCA / EPD) to **customers**
- Together with **cities/communities** set clear climate targets (Berlin, Uppsala, Amsterdam)
- Cooperate with **energy intense business** to reduce CO2 emissions through **electrification** (steel, cement, data centers, refineries)
- **Electrifying the transport sector** (e.g. busses in Stockholm Volvo/SL, inductive fast charging Scania/Södertälje)
- Together with **suppliers** work towards increased transparency on the CO2 emissions and set climate targets
- Roadmaps on **country level**: Sweden 100% renewable, Germany 100% Energiewende, NL 100% renewable



SYSTEM INTEGRATION - PARTNERSHIPS

TO ENABLE CO₂ REDUCTION

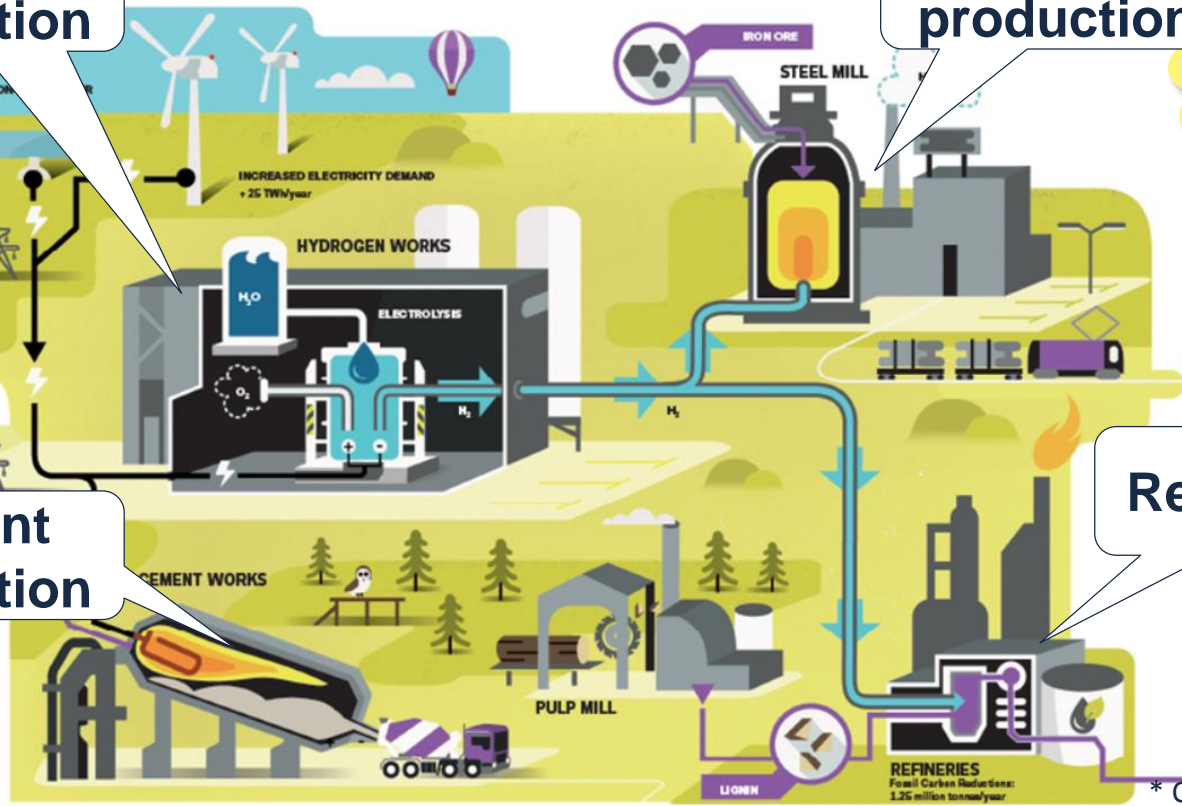
Hydrogen production

Steel production

CO₂ reduction
~9 MT/yr*

Cement production

Refinery



* Calculations for Sweden (tot 54 MT/yr)
3 Industries today 15 MT/yr

DRIVE CHANGE TAKES TIME! VATTENFALL IS PUSHING THE VISION - 1 MILLION ELECTRIFIED VEHICLES IN 2030



2009: JV Volvo PHEV
2012: Launch V60 PHEV



2013: Roadmap Sweden



2014: Fast charging Network



2016: InCharge



2013: National EV Procurement



2013: Charging partner to Nissan/Renault



2015: Nollzon



2015: Hybrid buses

Availability of vehicle

Available charging infra.

Supportive policy framework

VATTENFALL - IN COLLABORATION TOWARDS A SUSTAINABLE ENERGY TRANSITION (FOCUS ON REDUCE, REUSE, RECYCLE)

Research project for a carbon dioxide free steel industry



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Cooperation in large scale bio-diesel production



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Study on electrified cement production



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Storage projects at a number of wind parks



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Launch of an open charging network (white label)



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Launch of a market place for energy sharing



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JV Plug-in electric hybrid technology



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Support of a major enterprise for battery production in Sweden



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Supplier of carbon dioxide neutral district cooling



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