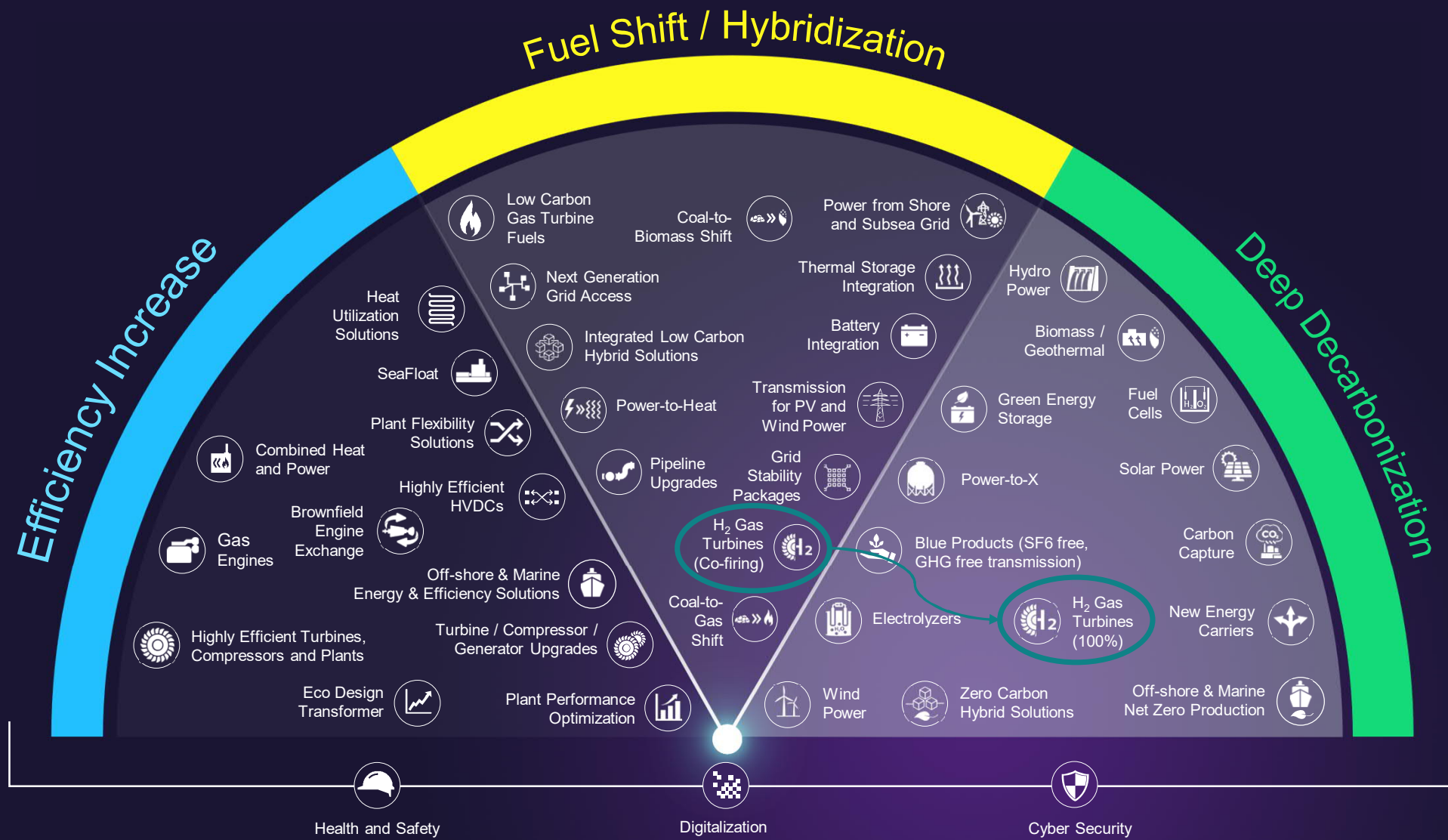


Frukostwebinarium "Vätgasens roll i kraftsektorn"

Möjligheter med P2G2P

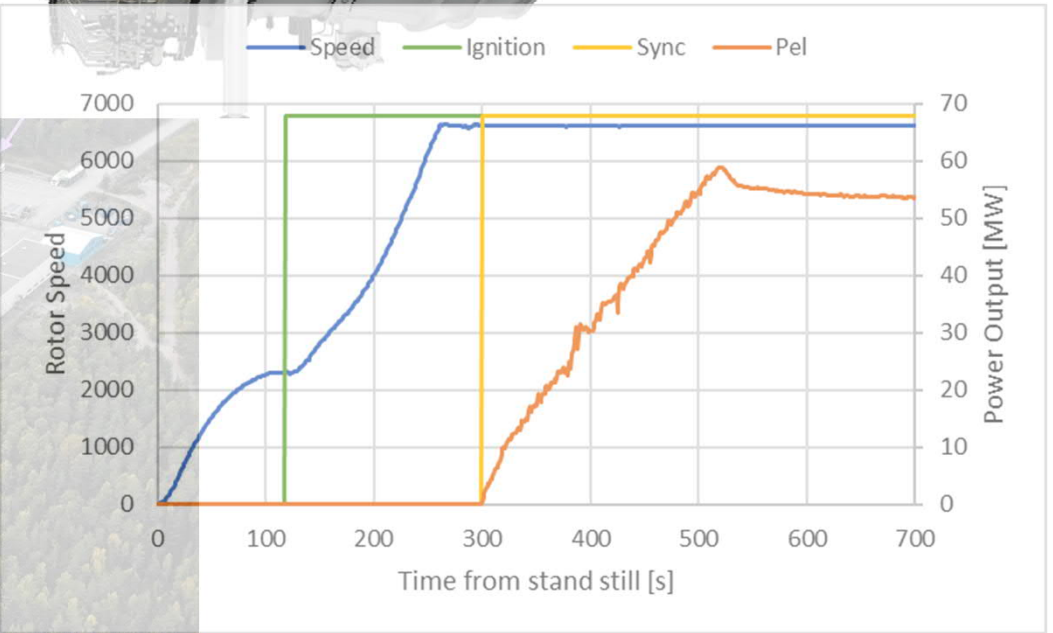
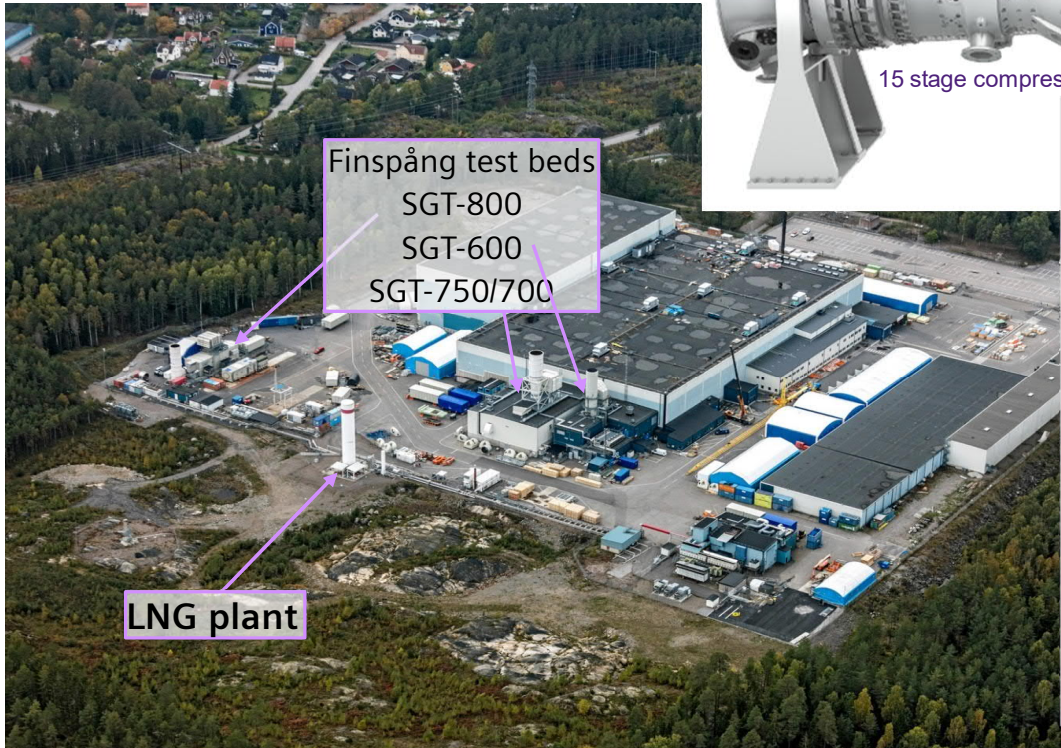
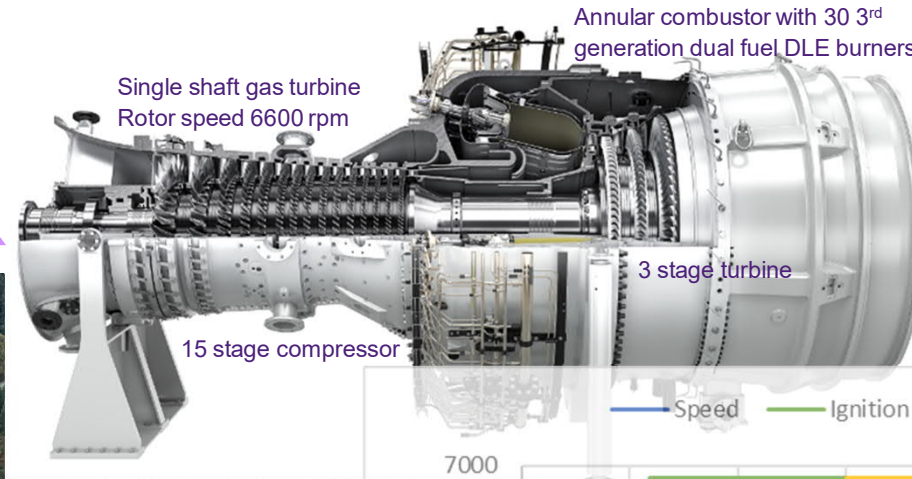
Prof Jenny Larfeldt





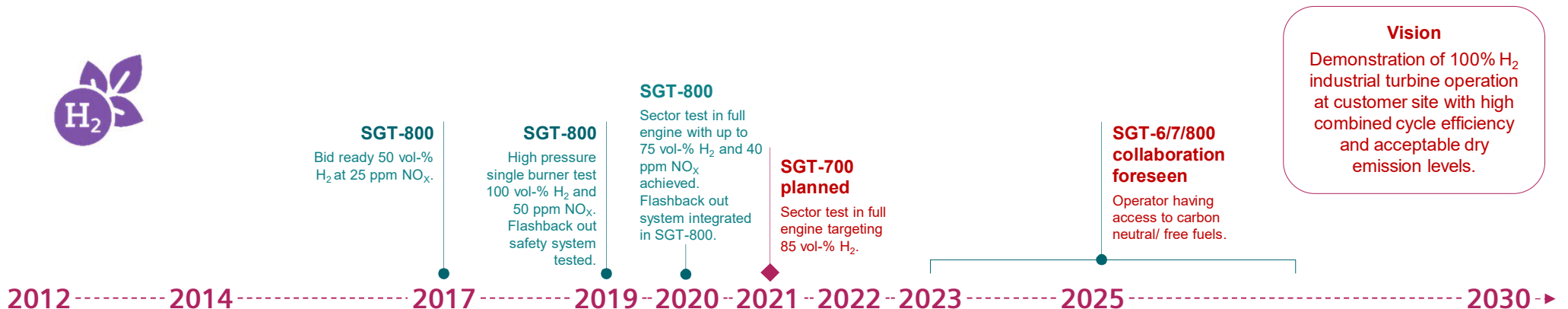
Siemens Industrial Gas Turbines

SGT-800 57 to 62 MW
 SGT-750 40 MW
 SGT-700 33 MW
 SGT-600 24 MW



Industrial gas turbine hydrogen road map

R&D speed enabled by additive manufacturing



Vision
 Demonstration of 100% H₂ industrial turbine operation at customer site with high combined cycle efficiency and acceptable dry emission levels.



Siemens additive manufactured burner used in SGT-600, SGT-700 as well as in SGT-800. Also available for retrofit in existing units.



<https://www.siemens-energy.com/global/en/news/magazine/2019/hydrogen-capable-gas-turbine.html>

Zero Emission Hydrogen Turbine Center

The future energy system



Develop the gas turbine test facility towards a zero emission demonstrator plant by:

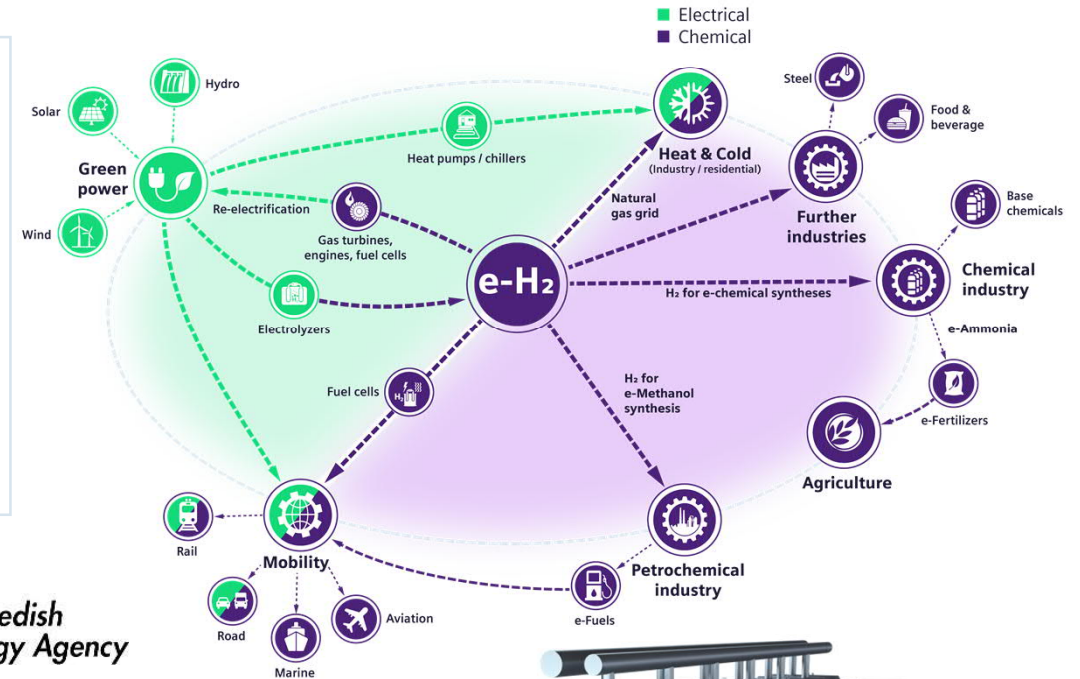
- Utilize power from turbine test runs to produce hydrogen in an electrolyzer
- Installing solar panels for continuously hydrogen production
- Use produced hydrogen as turbine fuel to reduce LNG consumption

Three year project.

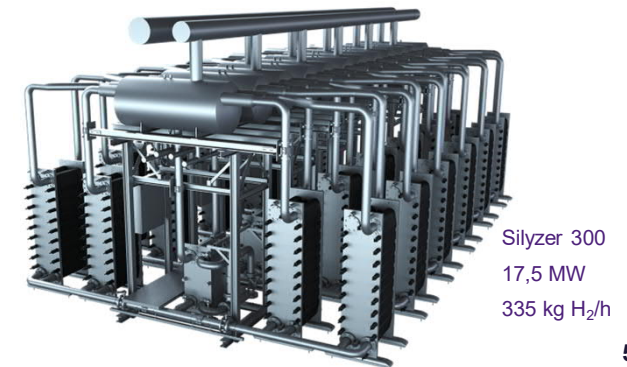
- Operation planned to start in 2021



<https://www.zehtc.org/>



Funding gratefully acknowledged Swedish Energy Agency and EU ERA-Net Smart Energy System



Tack!



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