

VBIK - NYTT

Club Meeting Tuesday November 6, 2018

Number 9

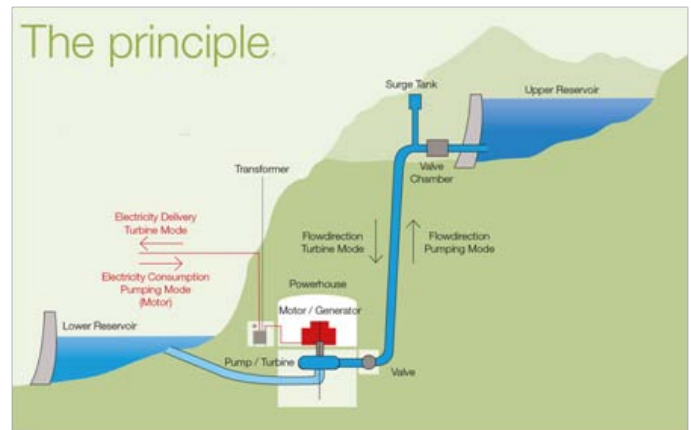
Västerbergslagens Ingeniörsklubb

November

Battery Storage



Pumped Hydro Storage



Battery vs Pumped Hydro Storage + More

Dr.-Ing. Klaus Krüger is Head of Plant & Product Safety and Innovation Management at the Corporate Technology of Voith Hydro Holding in Heidenheim.

Since the 19th century hydro plants have produced electricity and long before that mechanical power. Equally renewable solar and wind facilities are providing an increasingly larger share of the electric power production. Those sources are intermittent by nature and some produced energy needs to be stored. Especially wind farms have grown very large both on shore and off shore and thus the power grid is considerably affected when winds are very calm or very strong which cause no production.

For many years pumped-hydro has successfully been

used for bulk storage in conjunction with large thermal power plants. In recent years development of batteries has made advances and production prices have come down. Increasingly larger battery-storage facilities have been constructed.

Dr Krüger will make comparison between battery and pumped-hydro storage with respect to raw material, investment costs and CO₂ footprints over the lifetime of such facilities and cycle efficiencies. Furthermore he will explain the different characteristics of fixed-speed, variable-speed and ternary pumped-hydro plants and their contributions to the stability of the power grid.

Presentation starts at 6:00 pm sharp!

Time: TUESDAY NOVEMBER 2018

Location: ABB INFO CENTER

Last day for registration if you like to enjoy sandwich and beverage is Friday Nov 2 2018.



Sandwich and light beer/water is SEK 40 and will be served from 5:15 pm

Registration: Harvey Hammarsten clubmaster@vbik.se or 0240-782861 and state whether you want sandwich/beverage

Preferably visit our new website www.VBIK.se

Please pay your annual member fee SEK 100 if not already done!