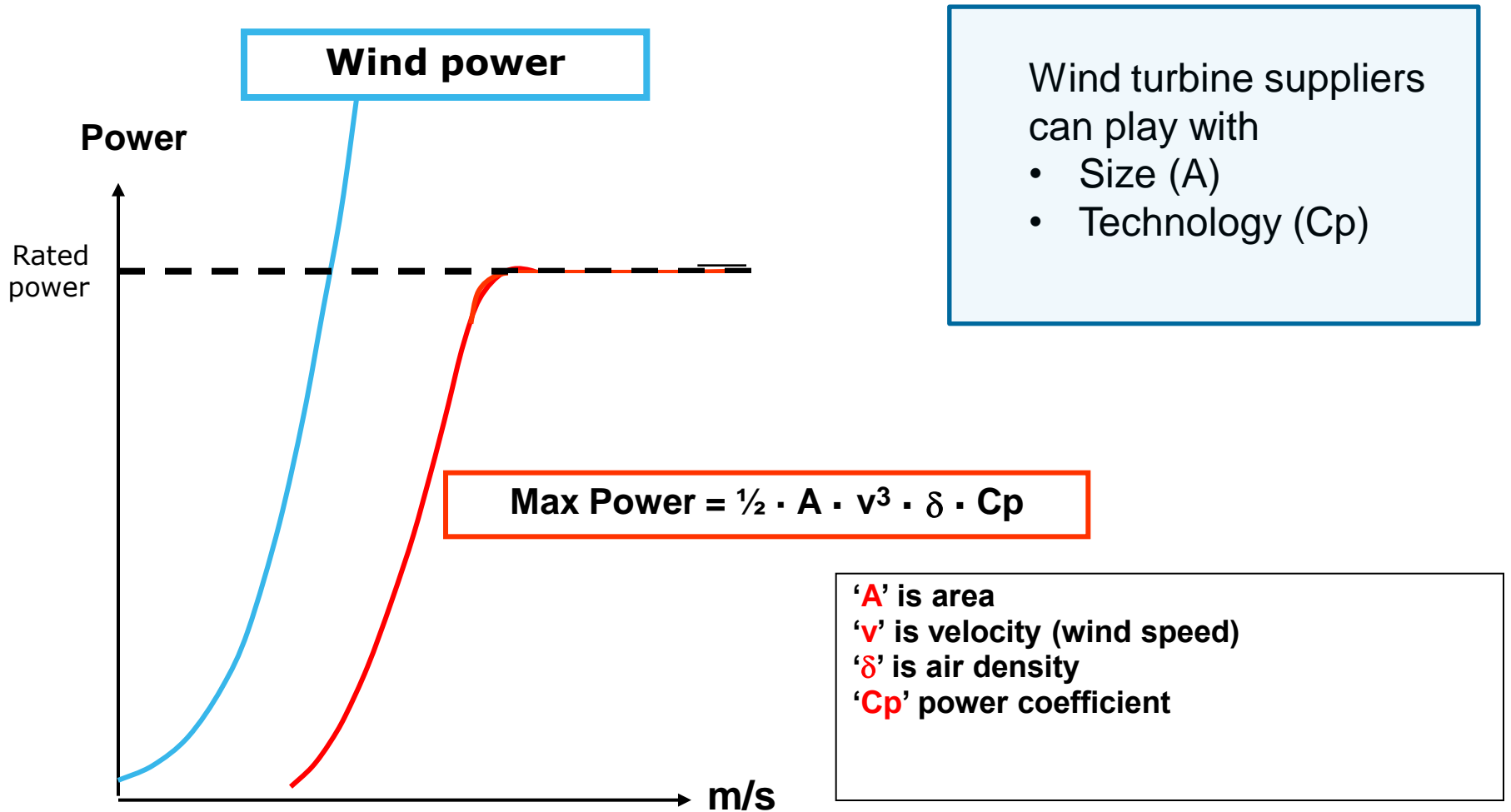




# Vind/Brint – er der synergi

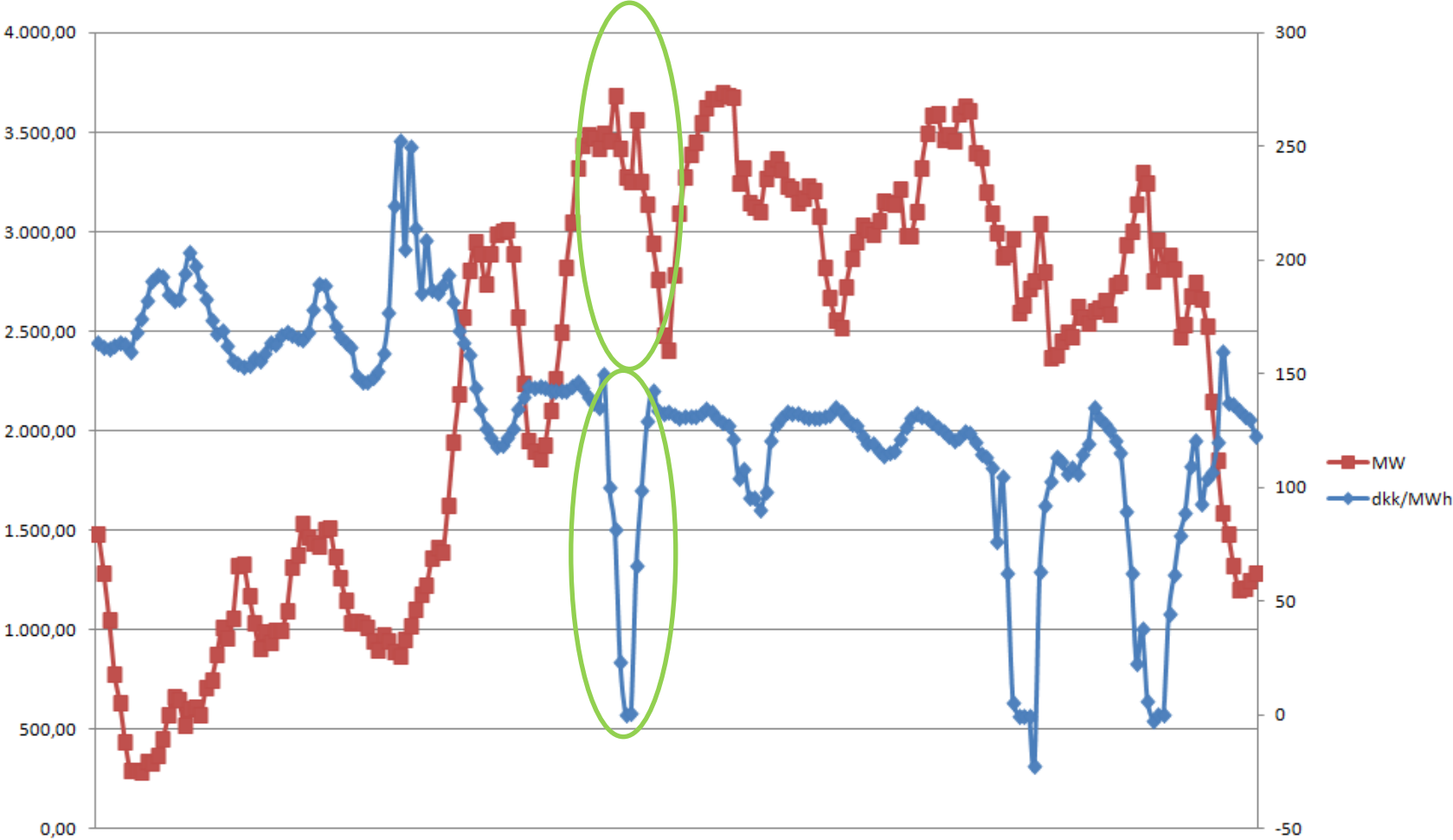
Henrik Kudsk – innovation and concepts

# Wind turbine physics Wind Power and Power Curves



# Production of hydrogen when the electricity price is low

Wind energy production and price 23/1-31/1-2016



Kilde: energistyrelsen

1GW surplus for 7 hours

# Challenges and potentials

## Challenges

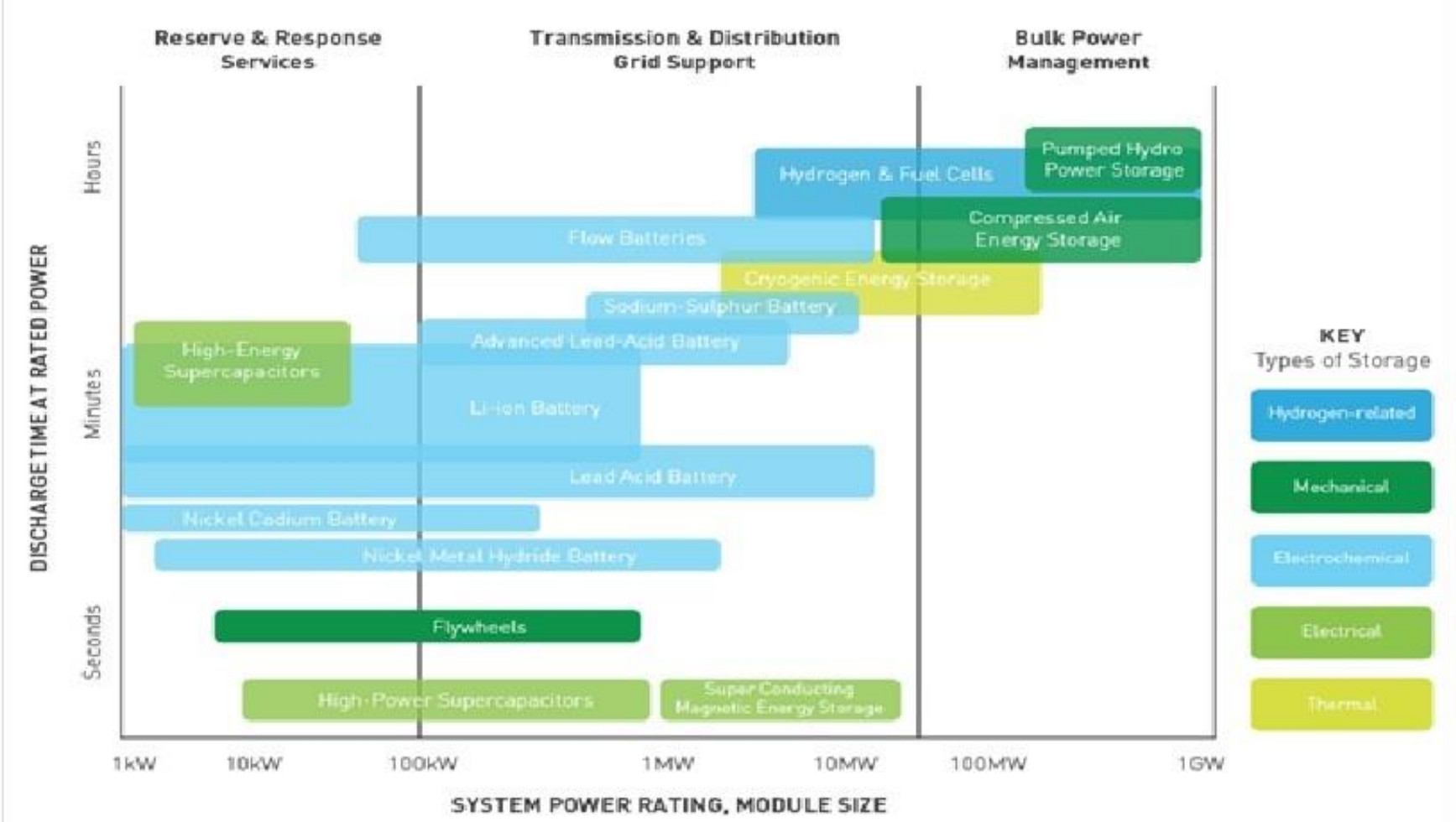
- Variation in electricity price
- Large capacity need to benefit from the really low prices
- Yield of electrolysis (as storage)

## Potentials

- Even out the electricity price
- Even out the consumption
- Utilize the waste heat
- Store some of the electricity



# Alternative storage solutions





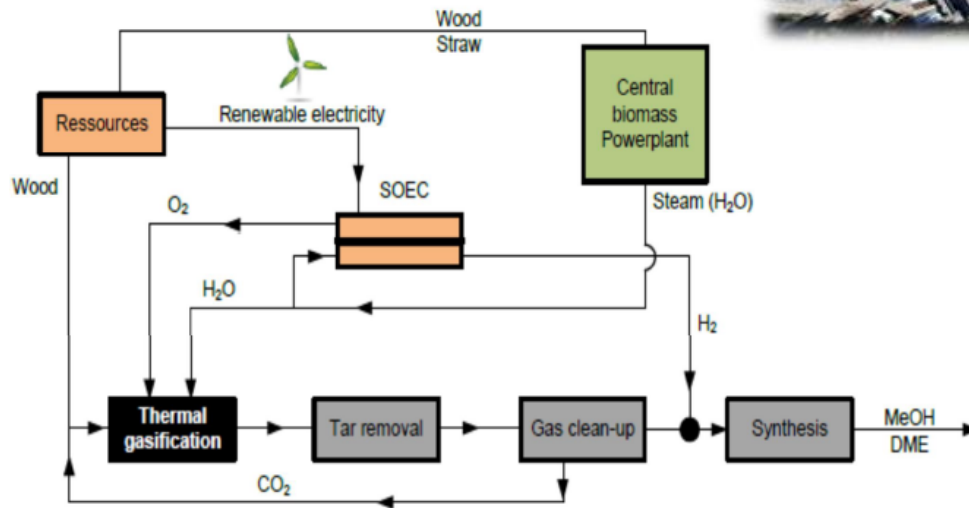
# Long term storage solutions having the best energy yield

## Alternative to hydrogen

- Pumped storage nice when you have a hydro power plant
- Gases and fluids
  - Ammonia
  - Liquid fuels
  - Hydrogen



## GreenSynFuel Project



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**Wind.** It means the world to us.™

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