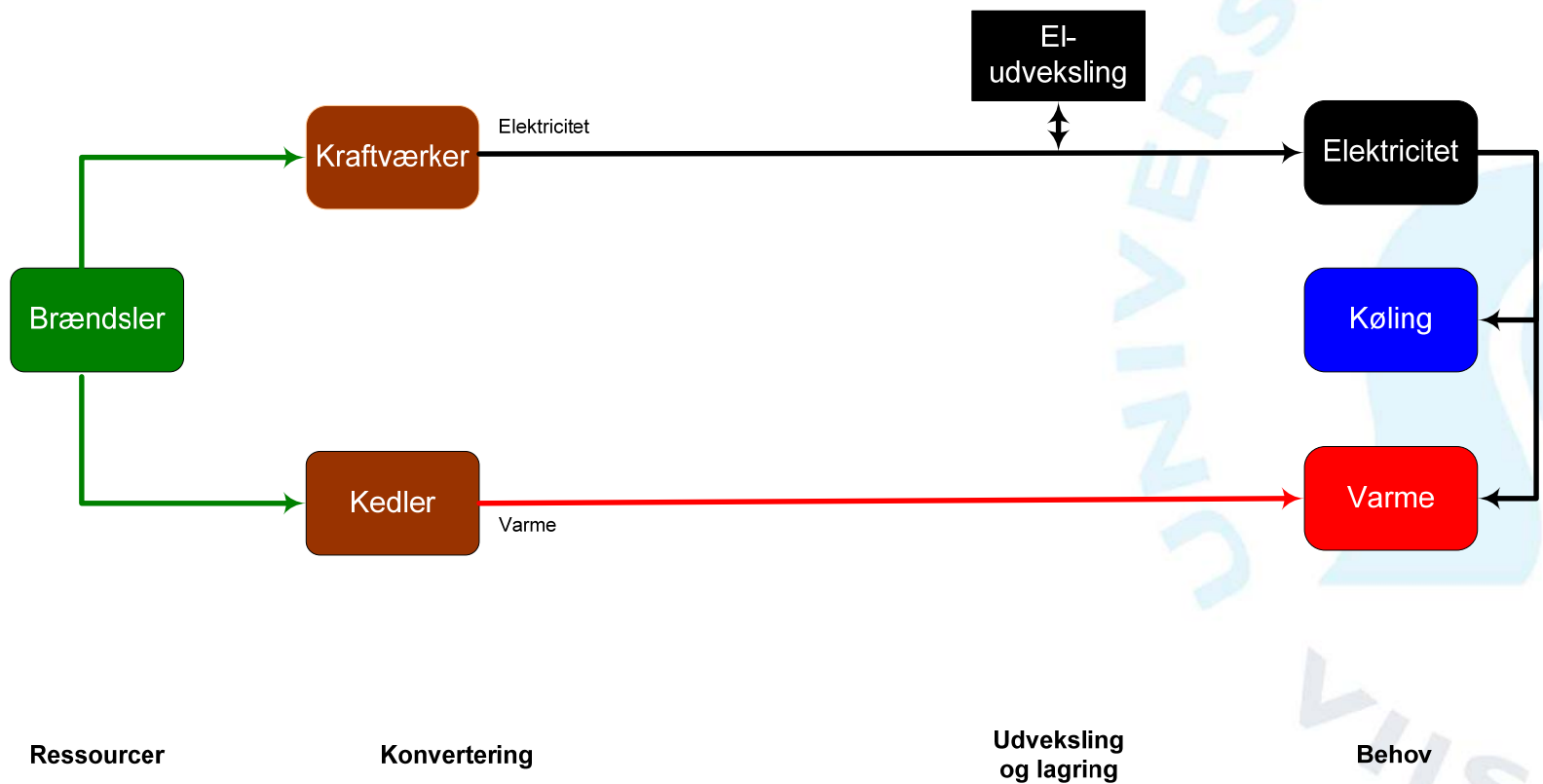
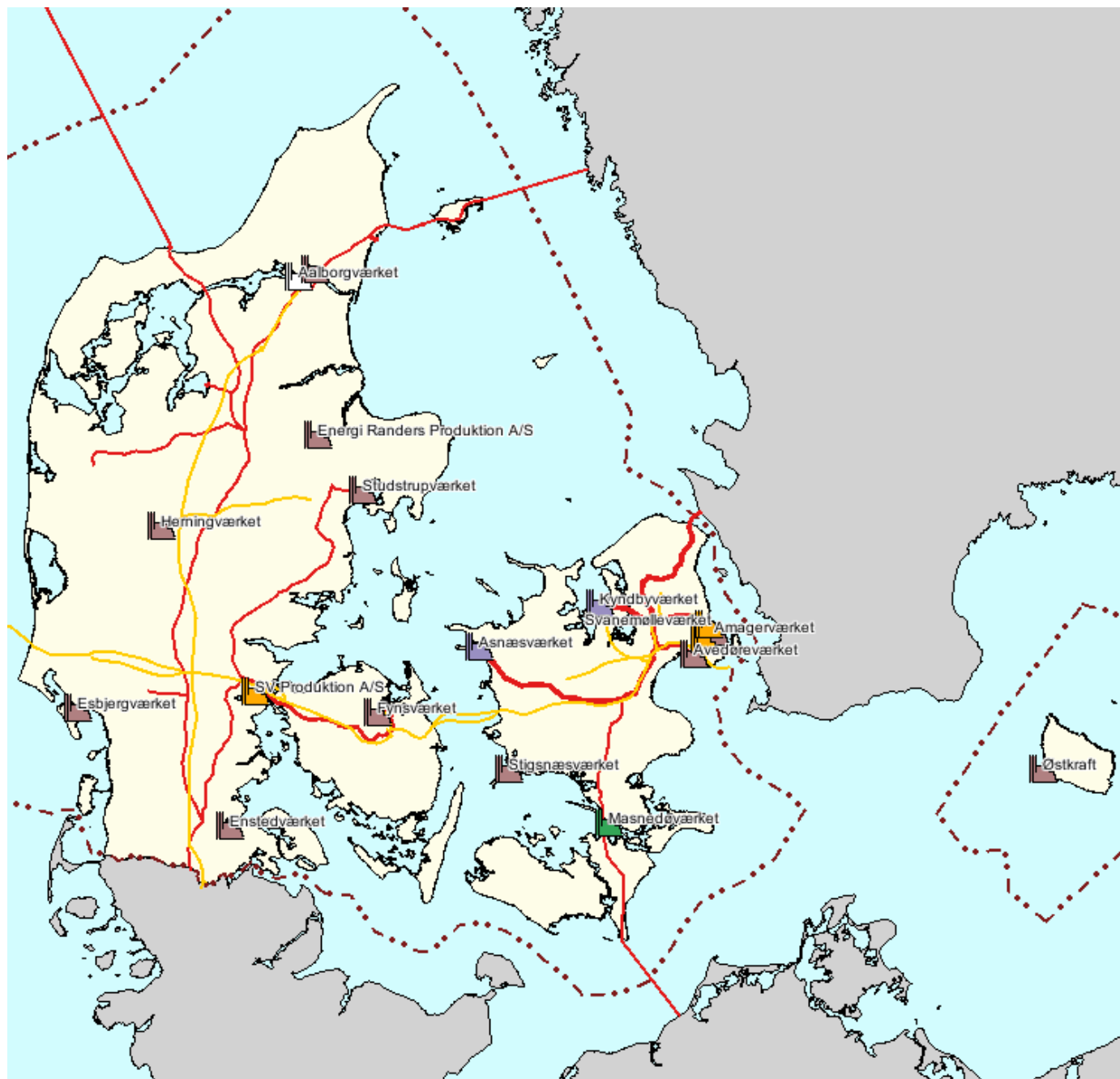


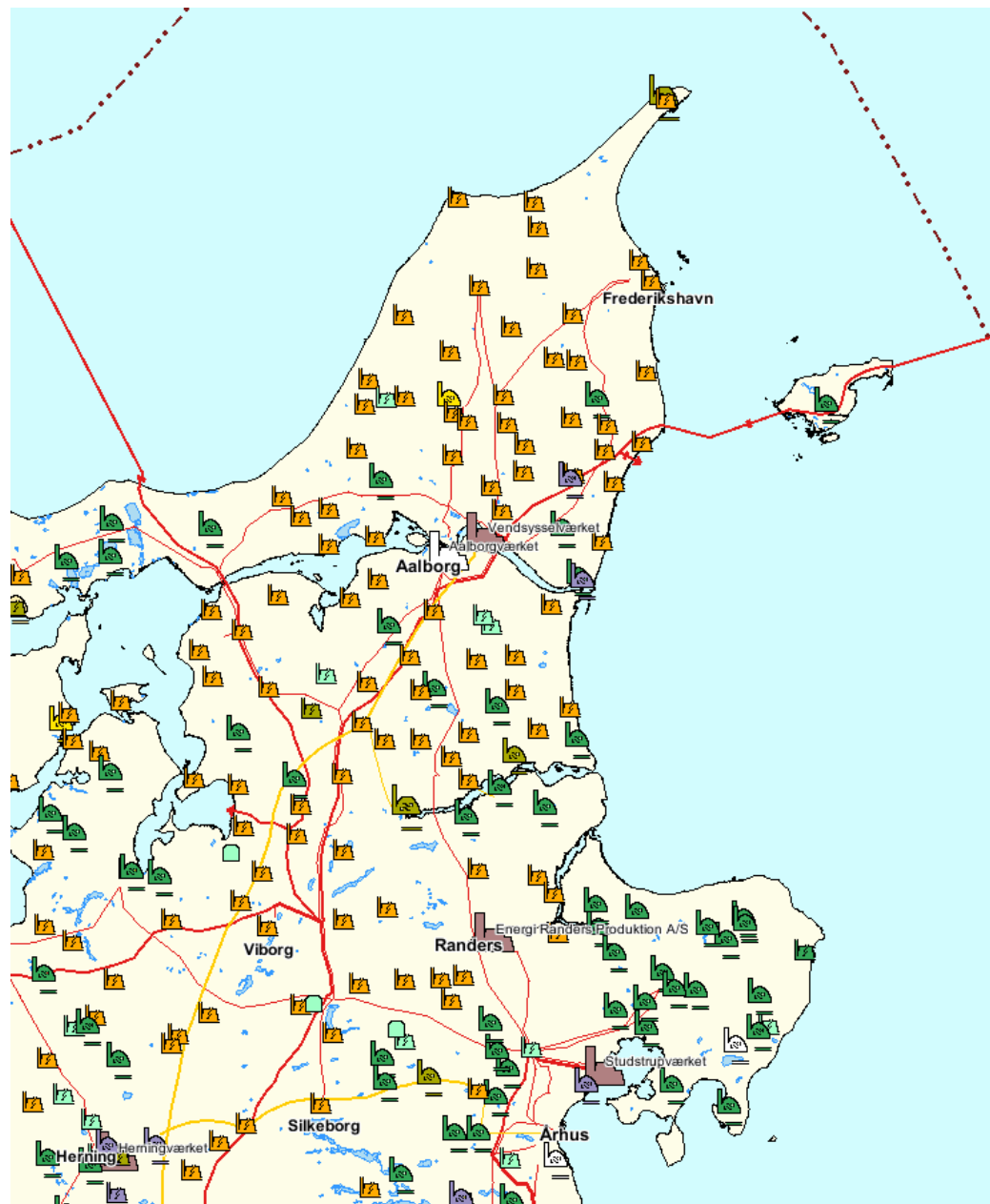
Det vind-venlige energisystem

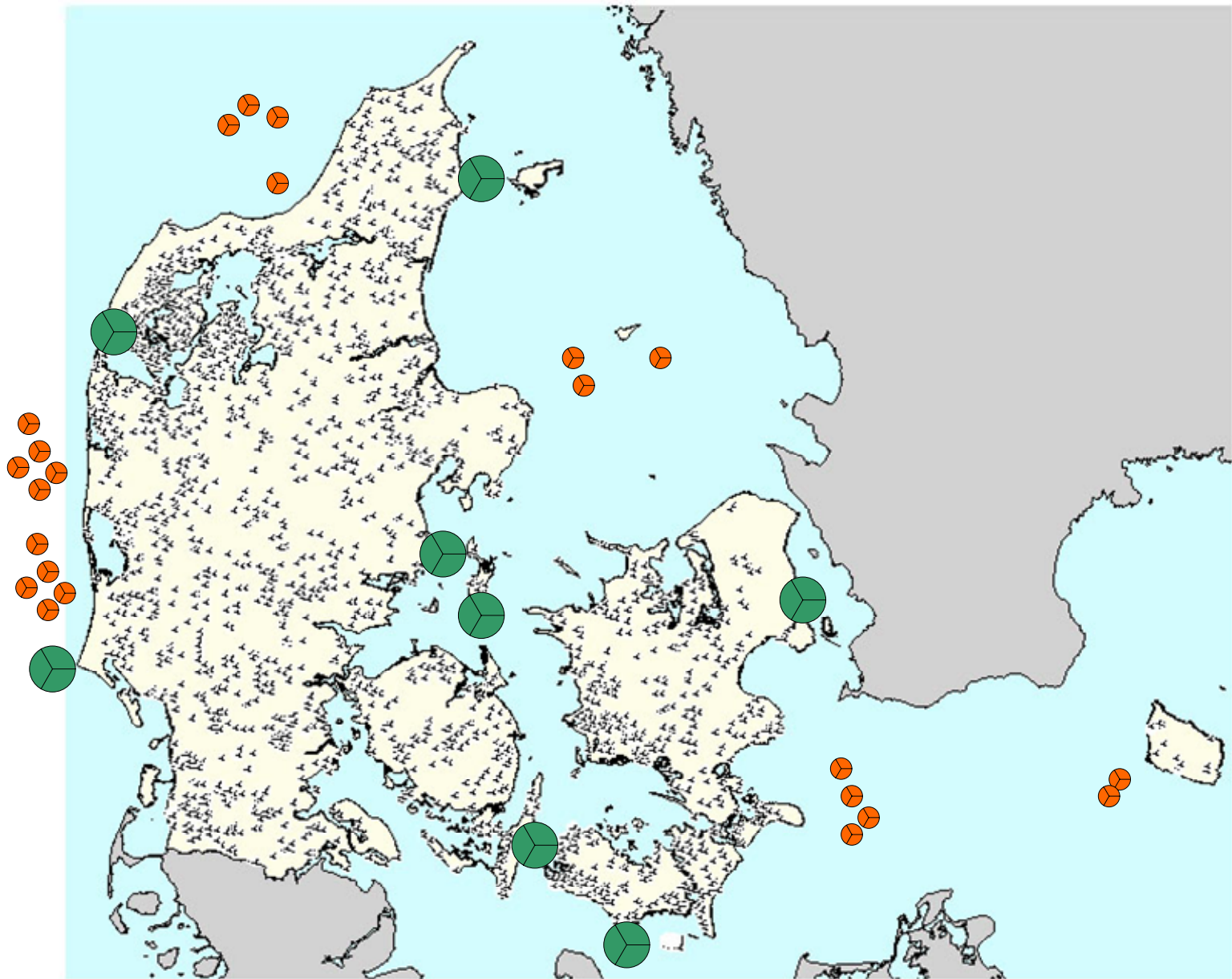
Morten Boje Blarke, Ph.D, Adjunkt, Aalborg Universitet

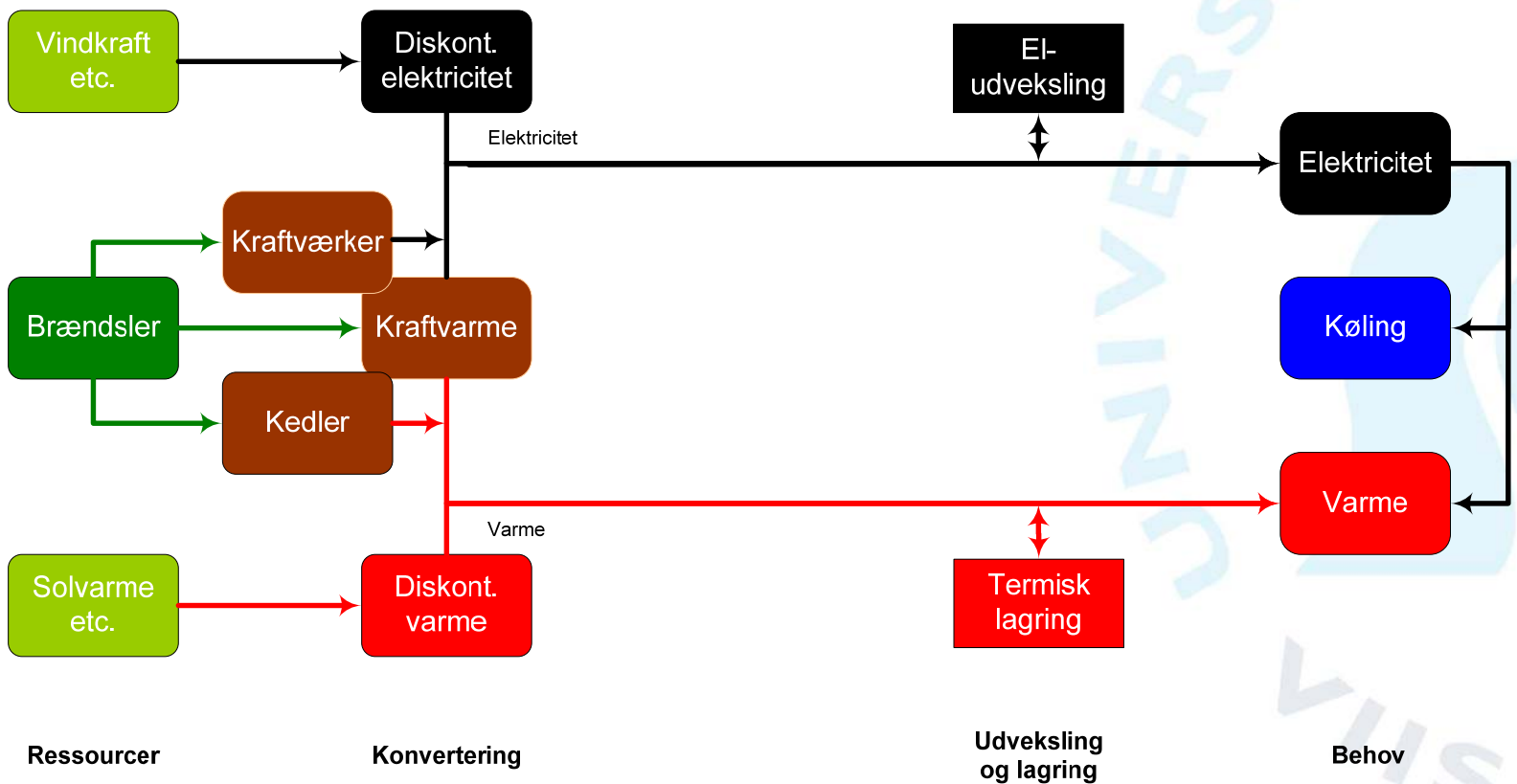
Det før-bæredygtige energisystem

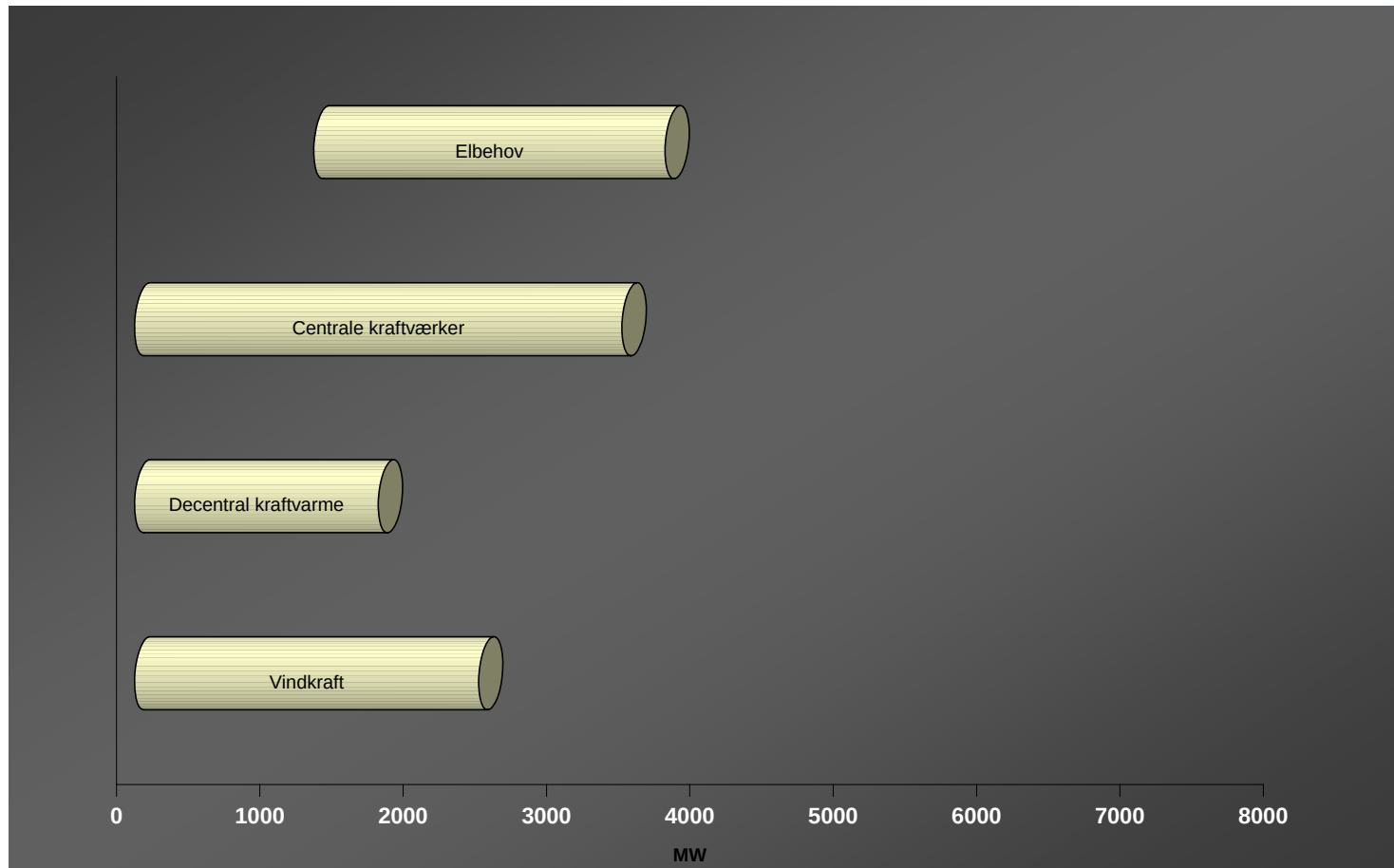


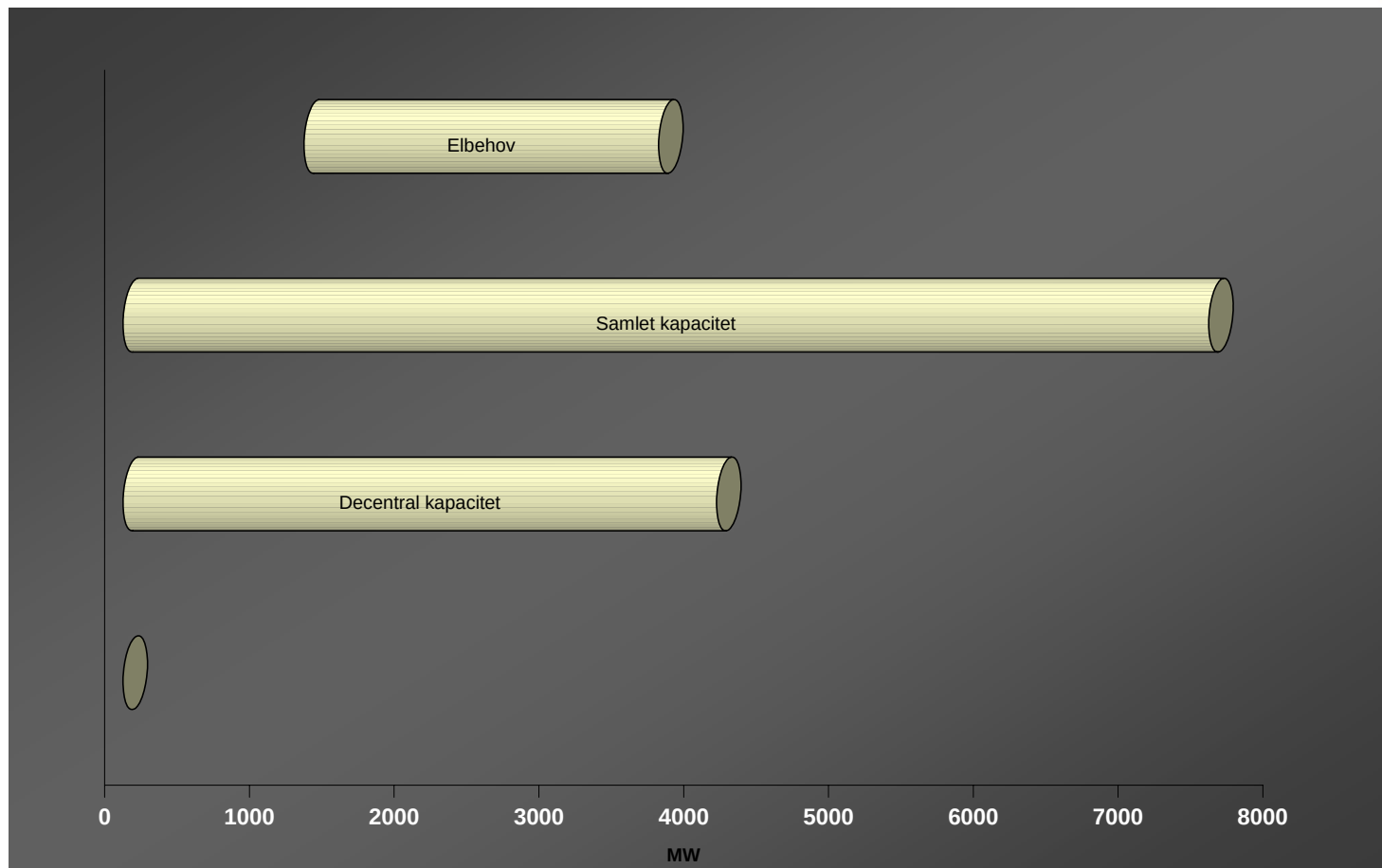


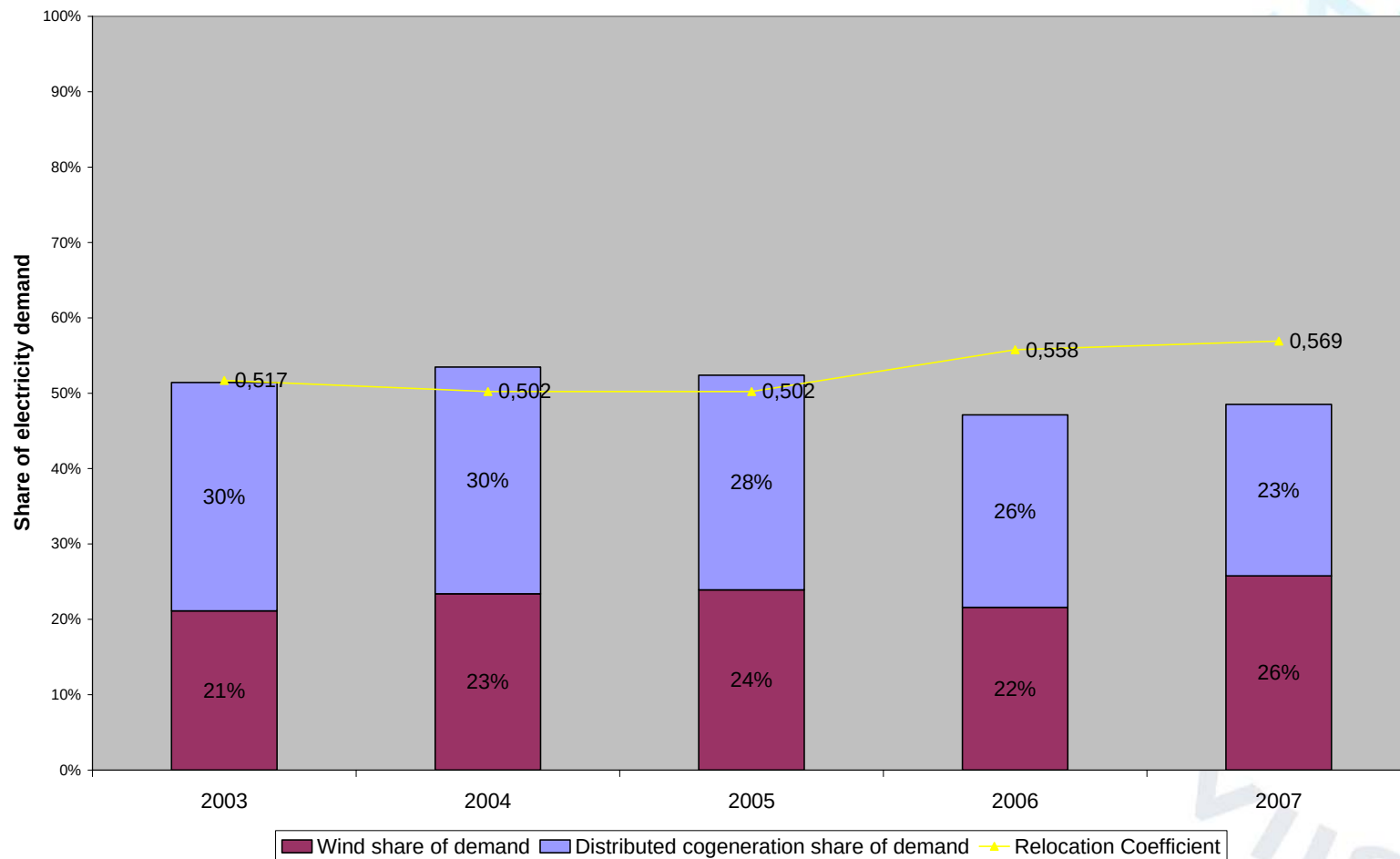


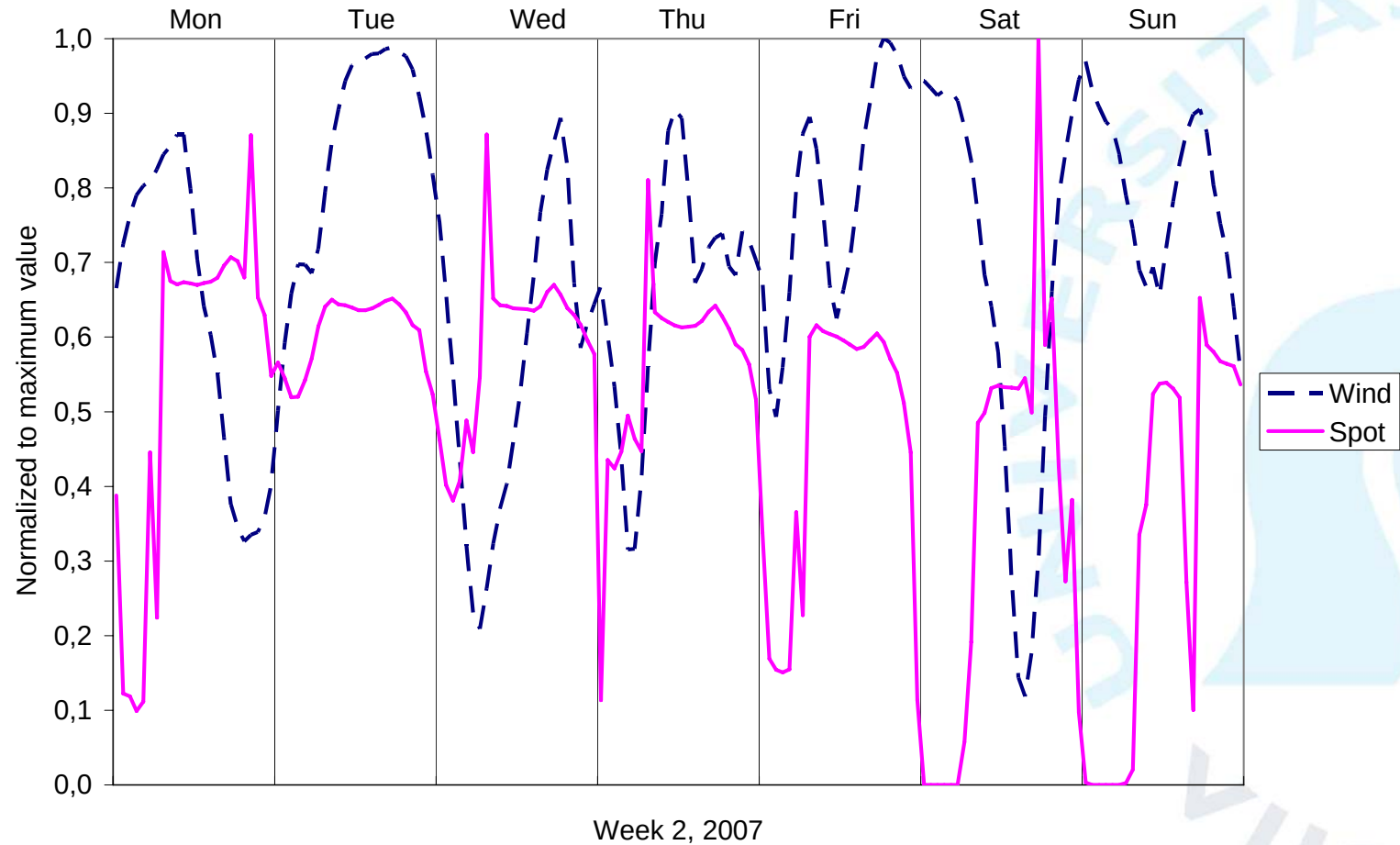












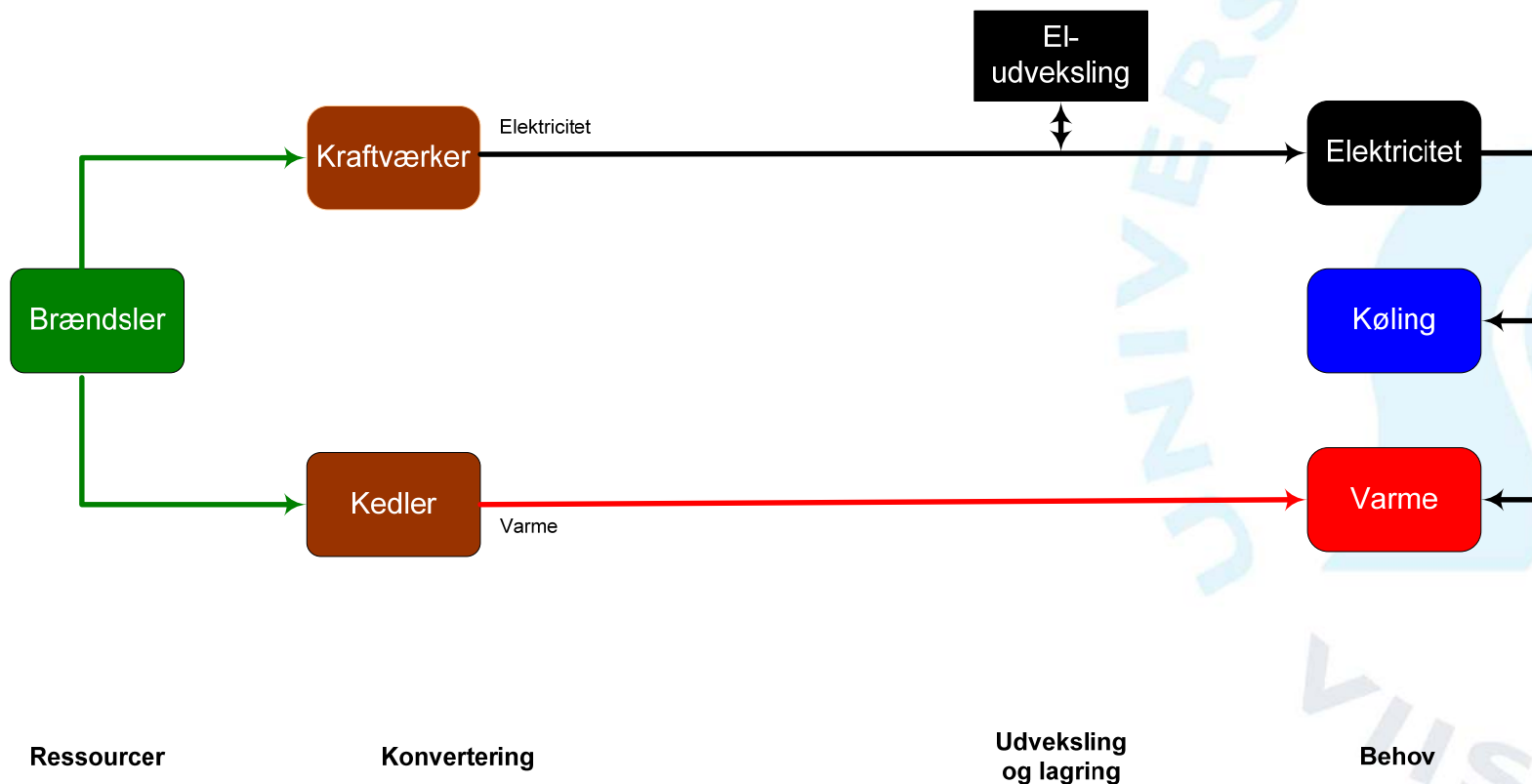
2006 Correlation Spot / Wind: -0,30

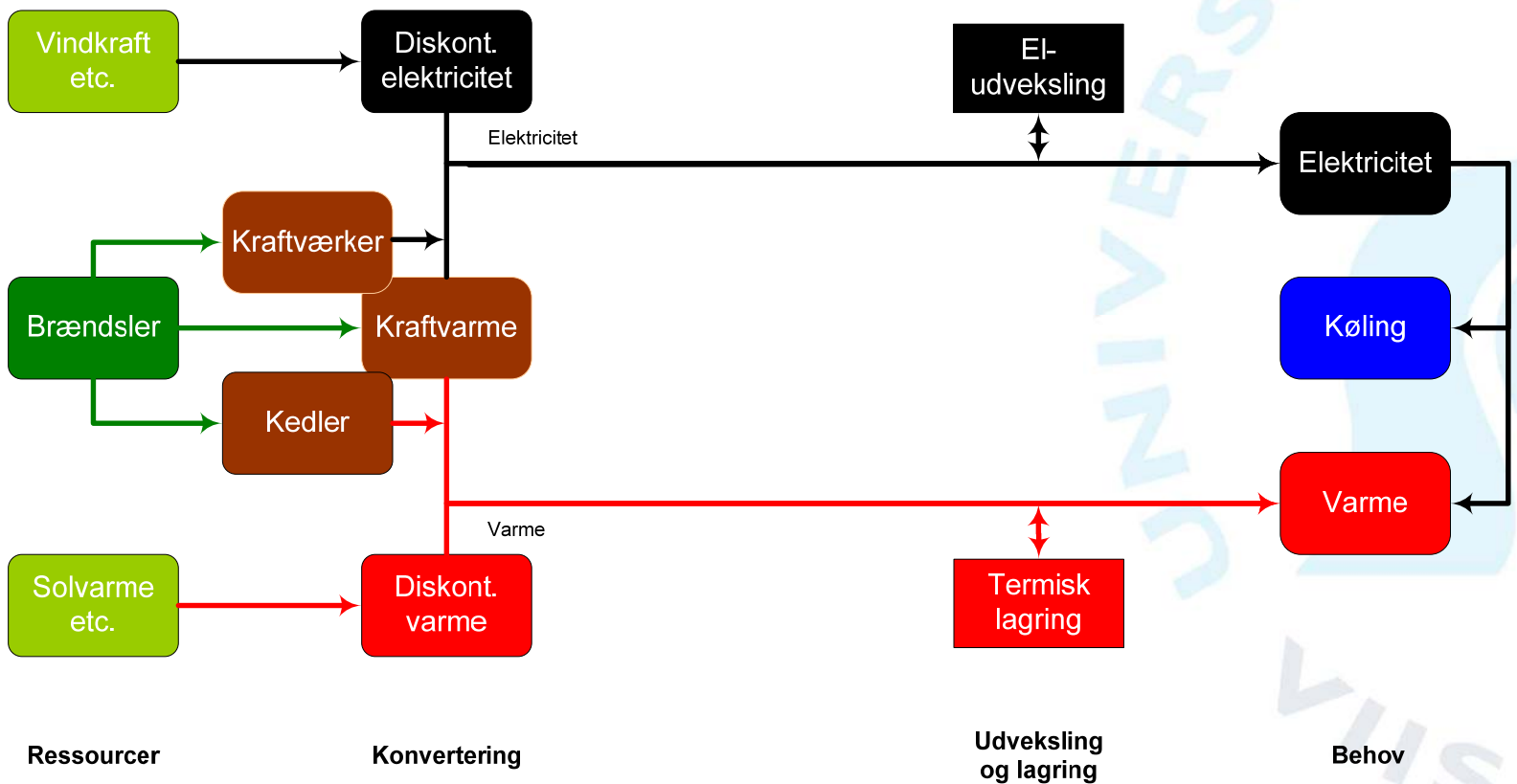
Et af det 21. århundredes vigtigste forskningsspørgsmål:

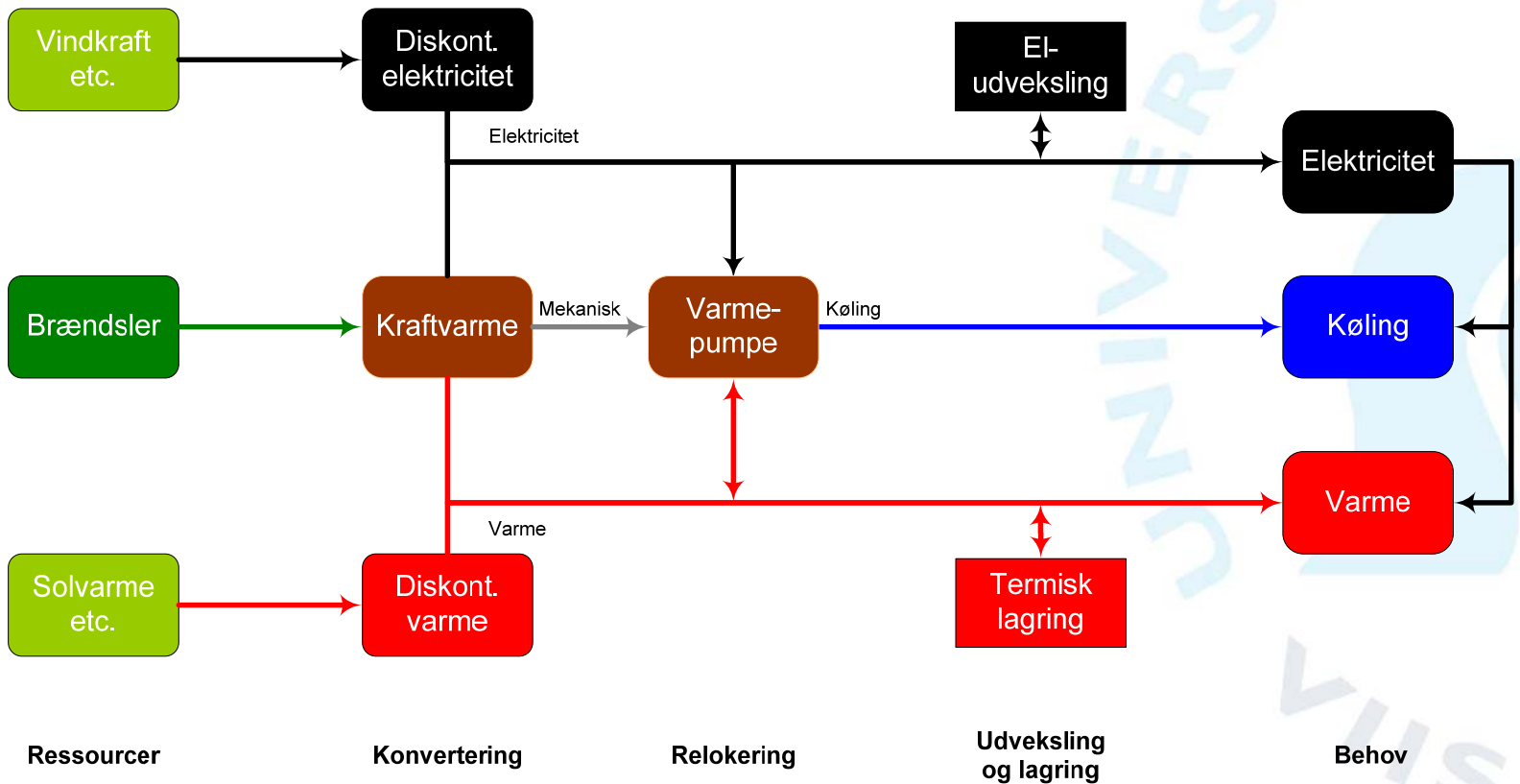
Hvordan kan energisystemet gøres “vindvenligt” ?

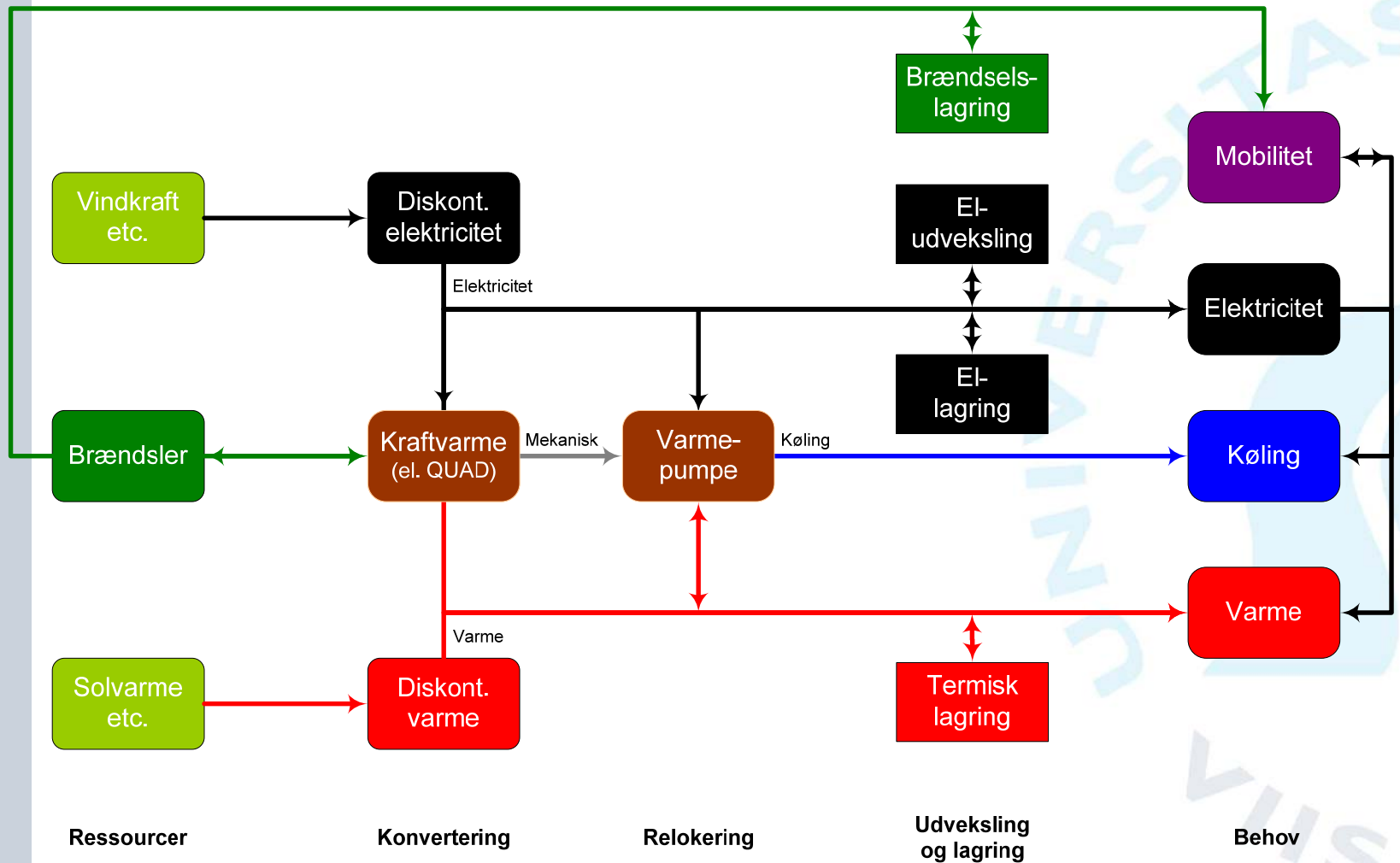
og hvilke konsekvenser for samfund, økonomi og miljø vil det få ?

Det før-bæredygtige energisystem



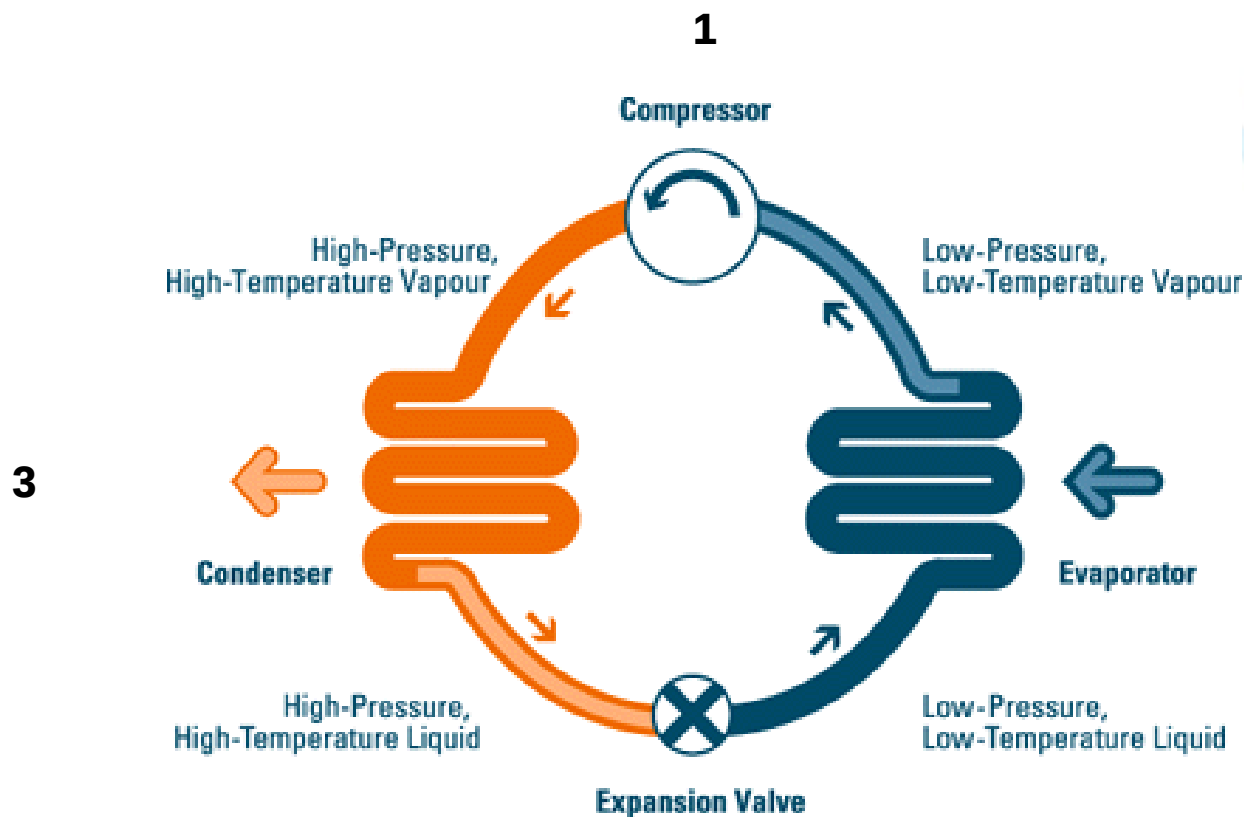










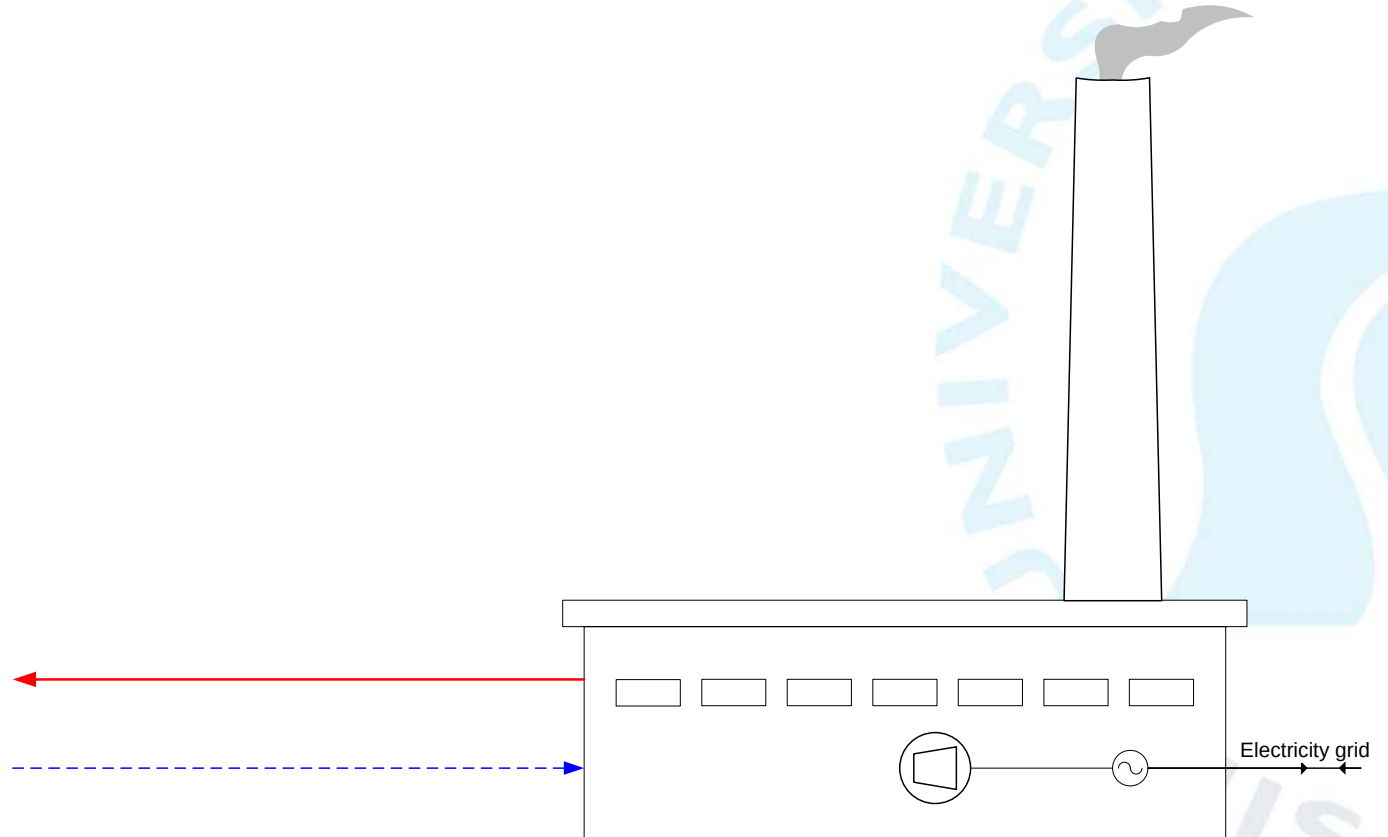


$$2 + 1 = 3$$

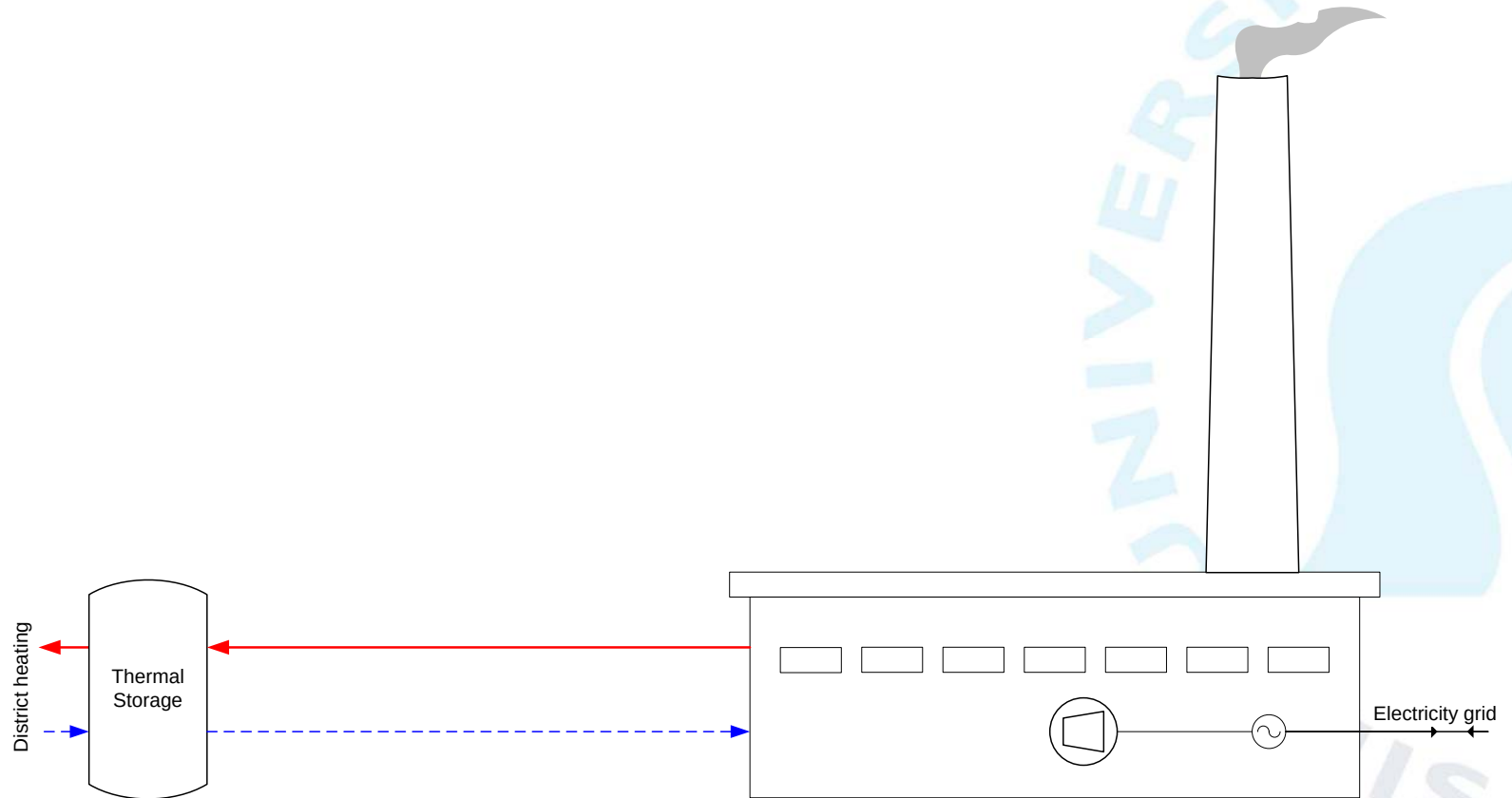
300 % virkningsgrad (COP = 3)

Kraftvarmeanlæg

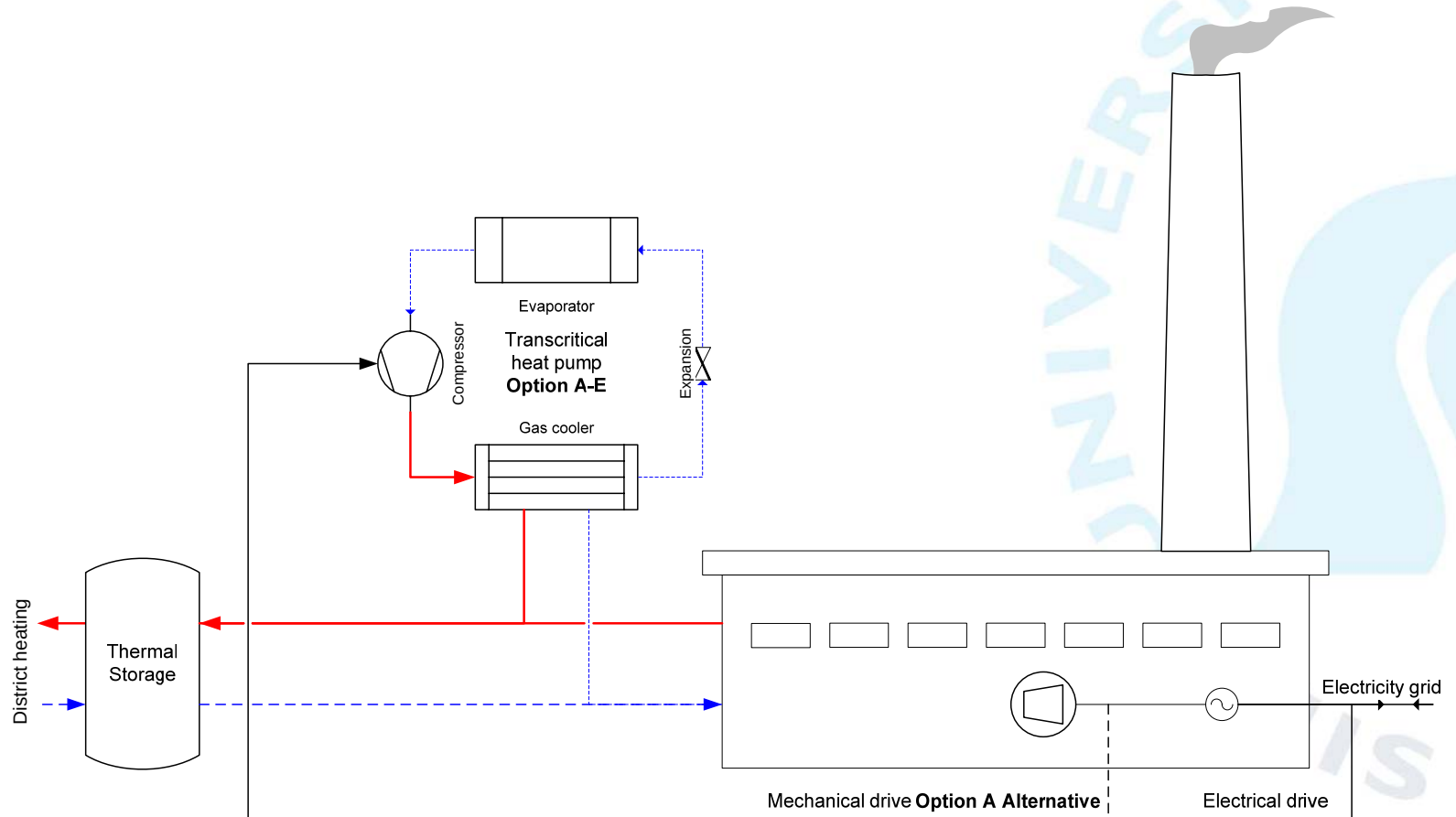
District heating



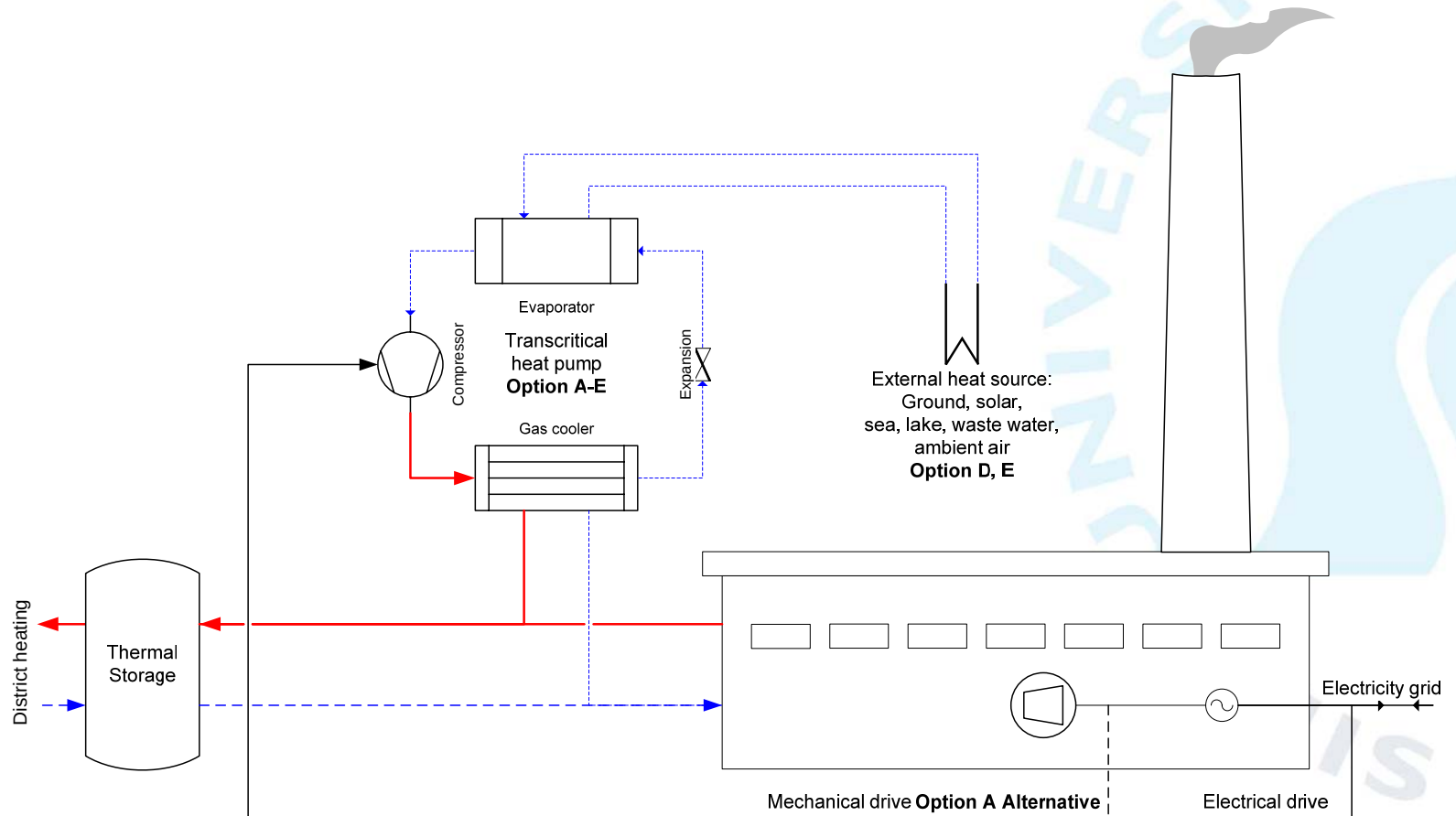
Kraftvarmeanlæg med varmelager



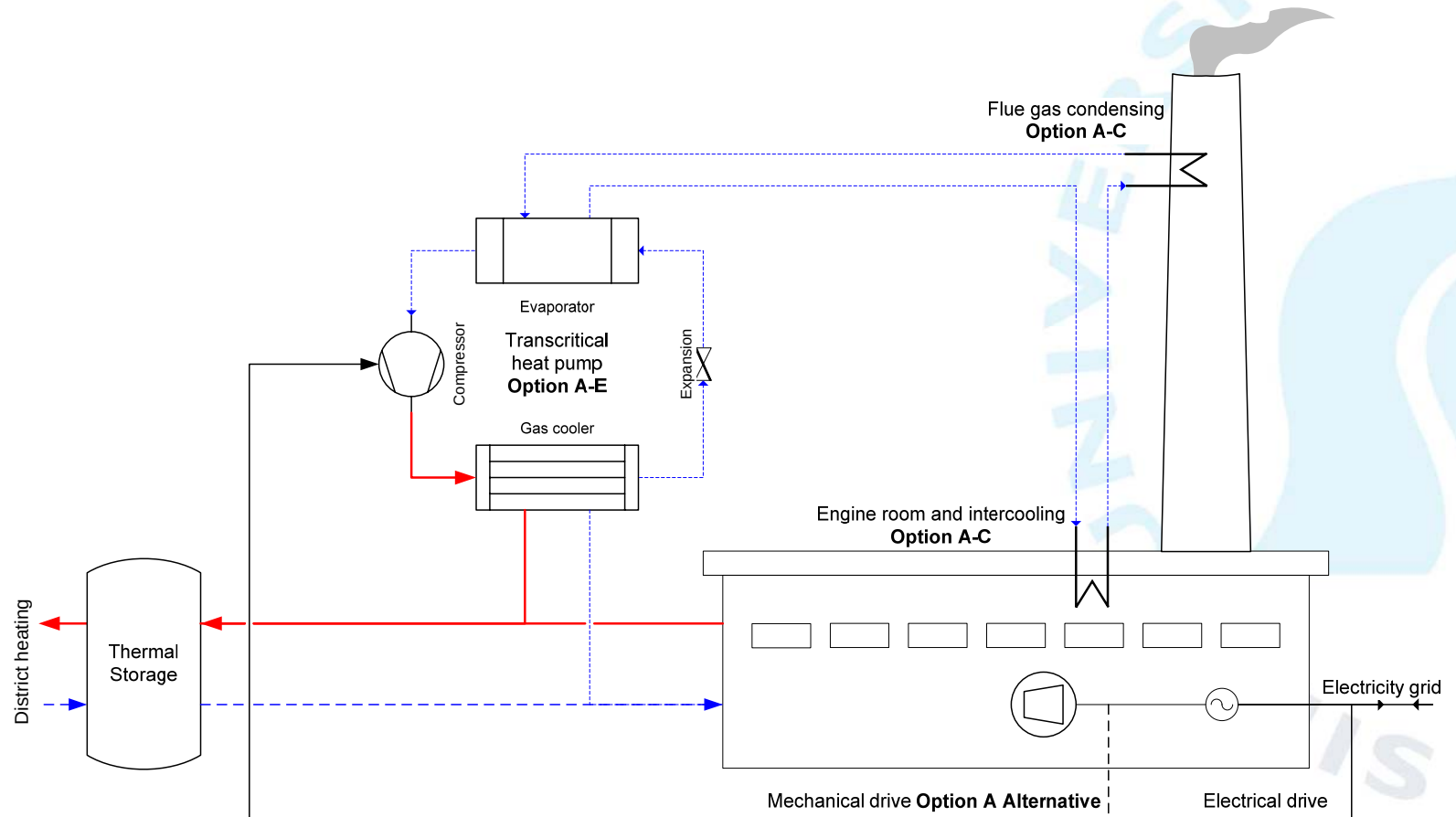
Kraftvarmeanlæg med varmepumpe ?? (Der mangler noget!)



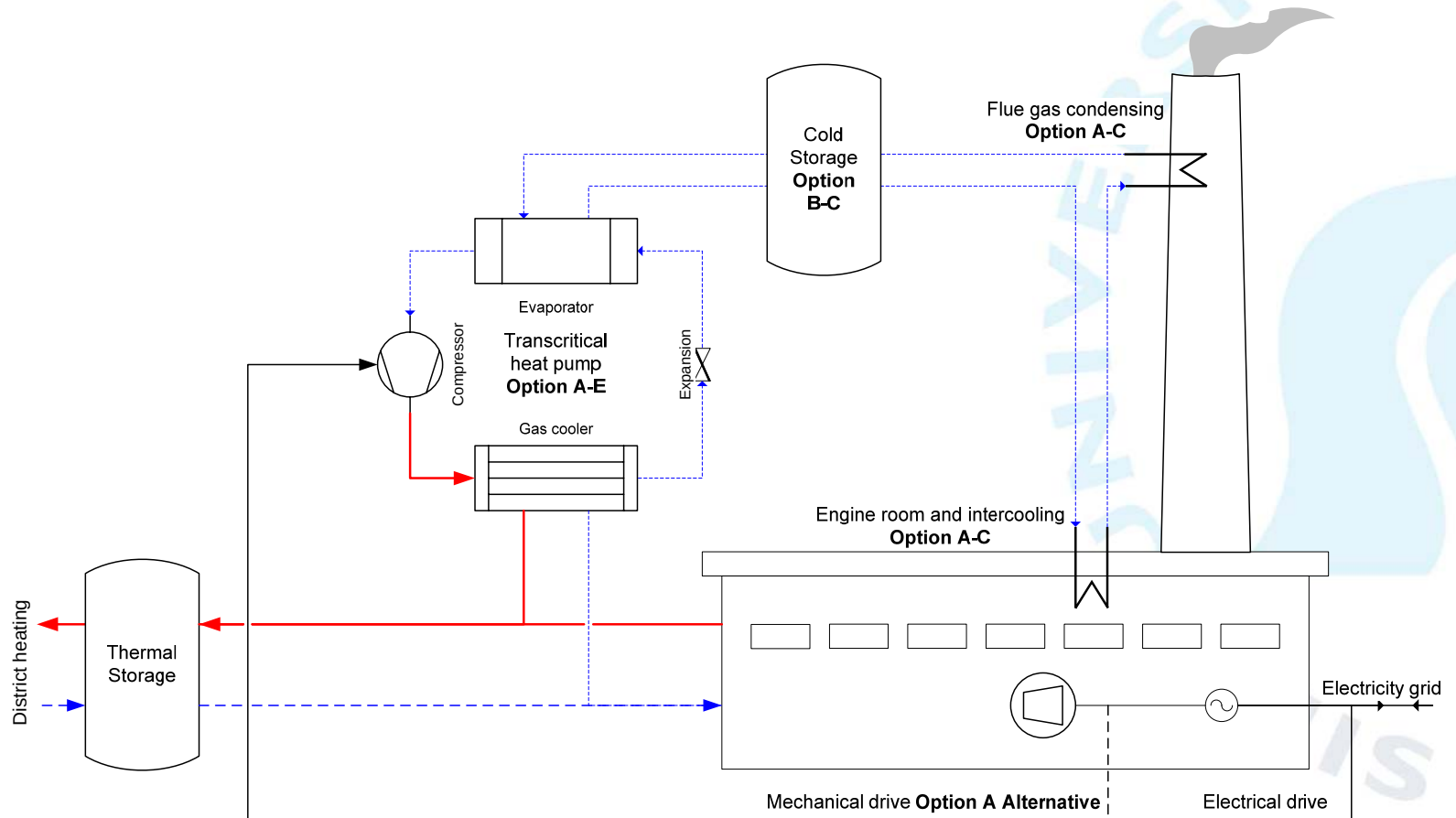
Kraftvarmeanlæg med varmepumpe (f.eks. jordvarme)



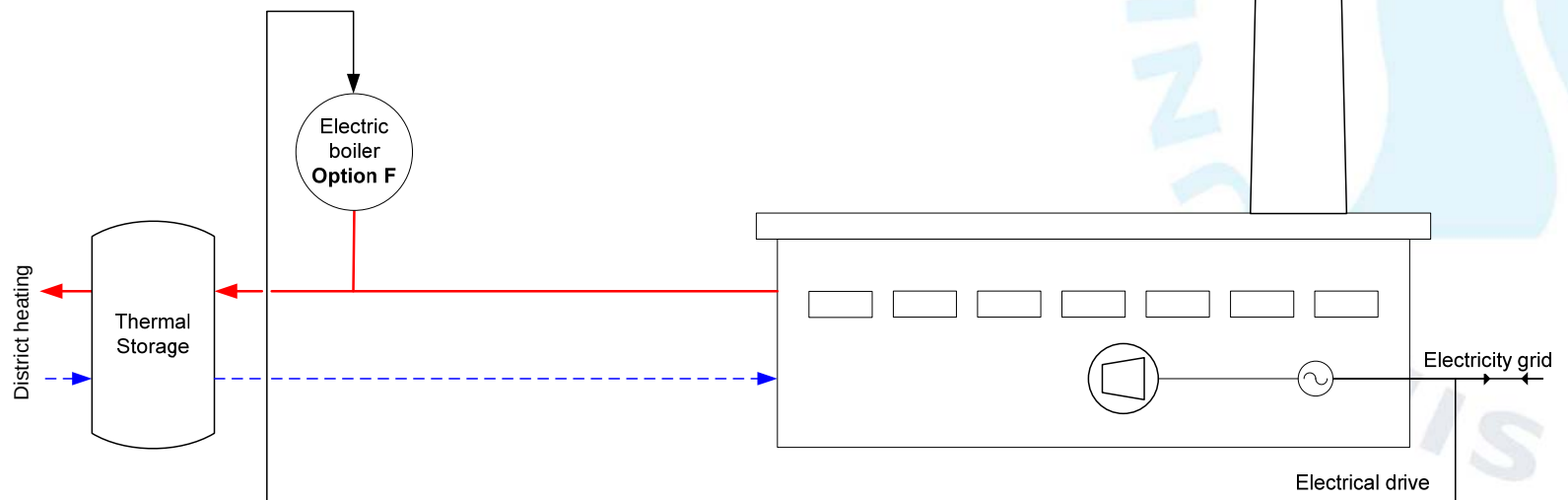
Kraftvarmeanlæg med varmepumpepumpe, hvor afkøling af røggas anvendes som lav-temperatur (integreret) varmekilde



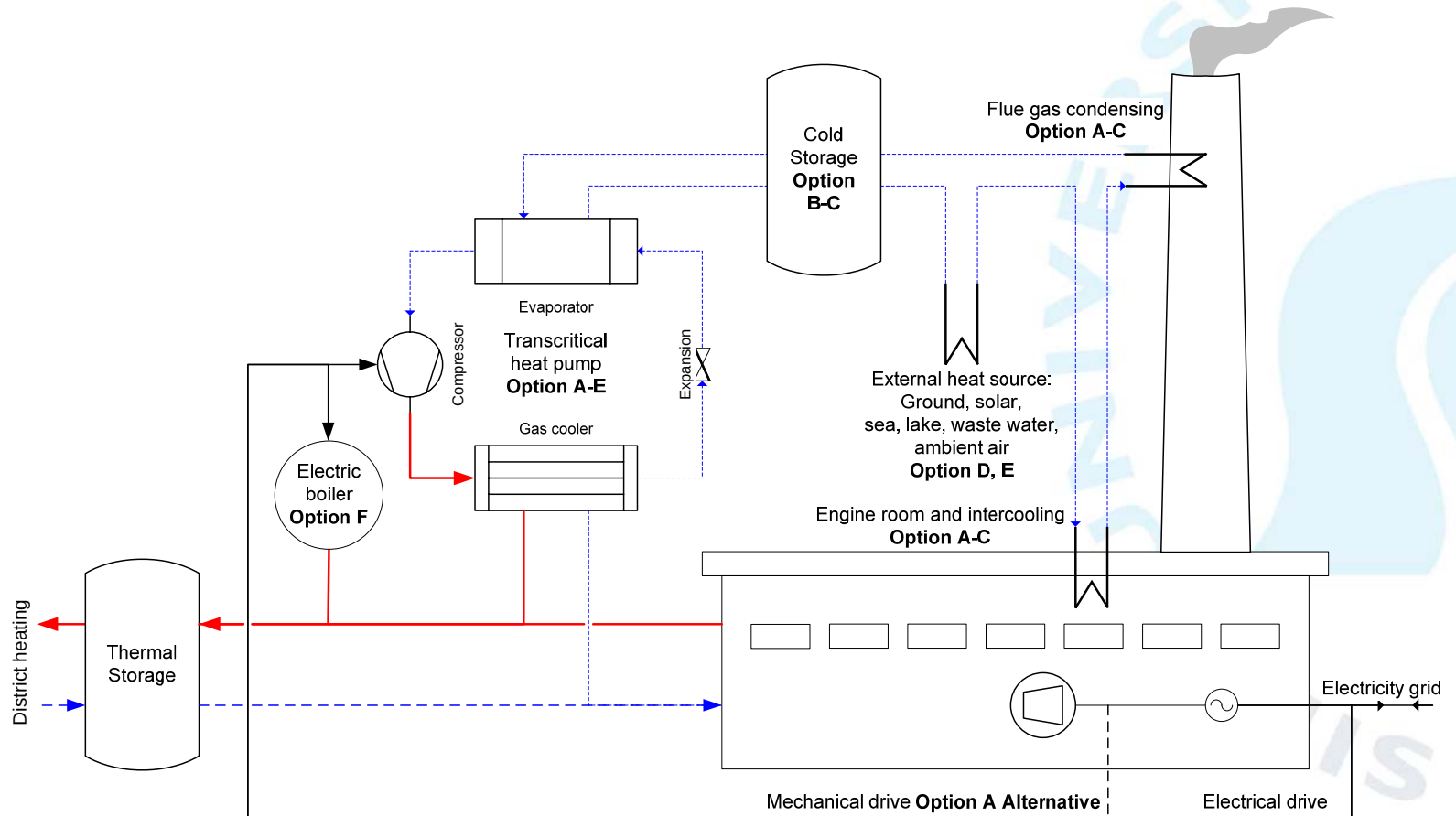
Kraftvarmeanlæg med varmepumpe, røggaskøling og “koldt varmelager”



Kraftvarmeanlæg med elkedel



Fremtidens kraftvarmeanlæg?



Fremtidens køretøj?

