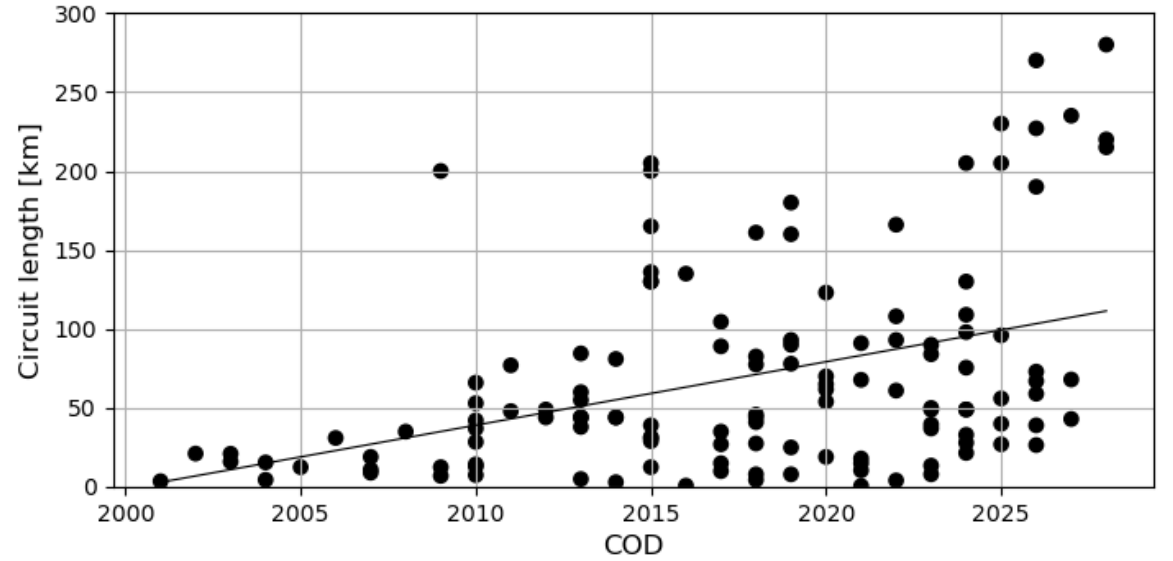
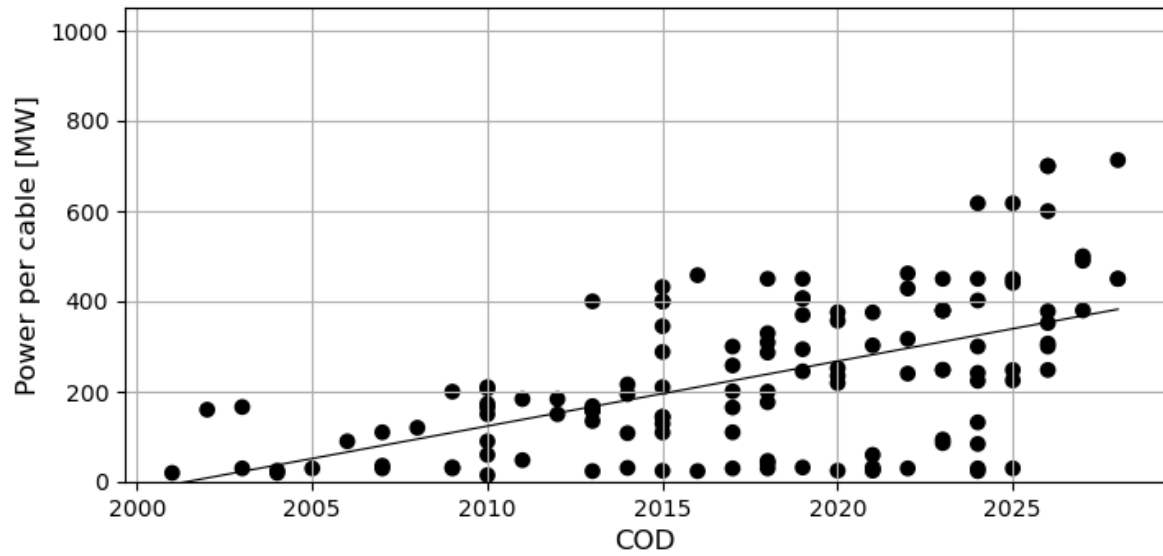
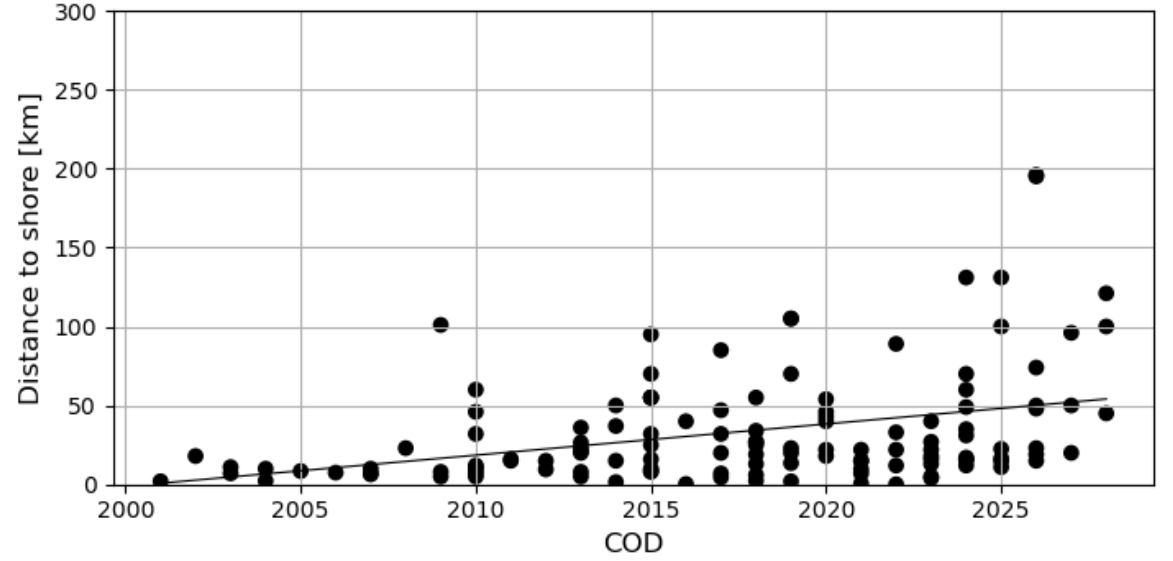
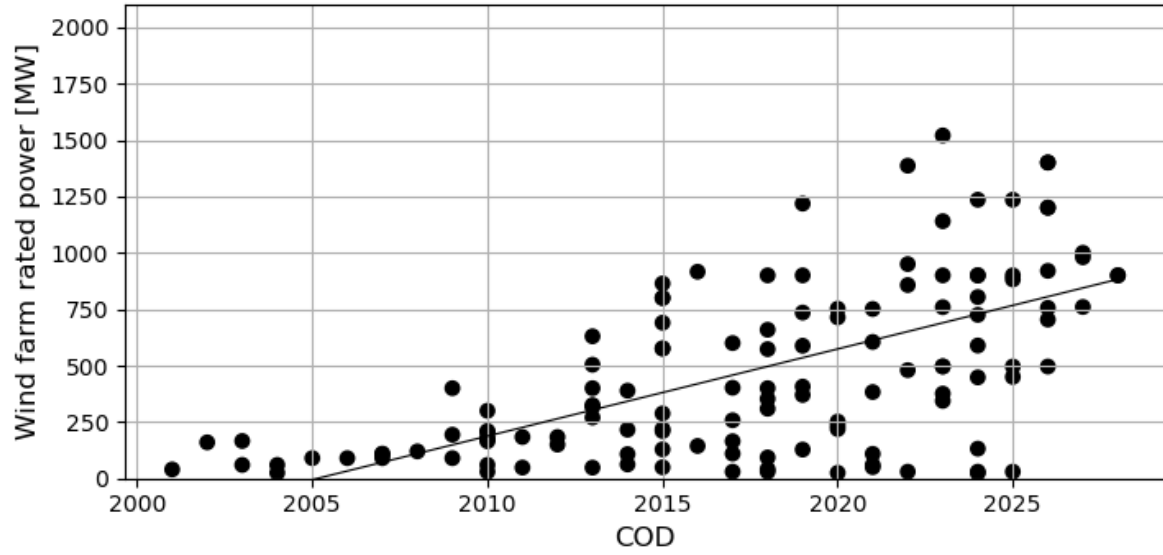


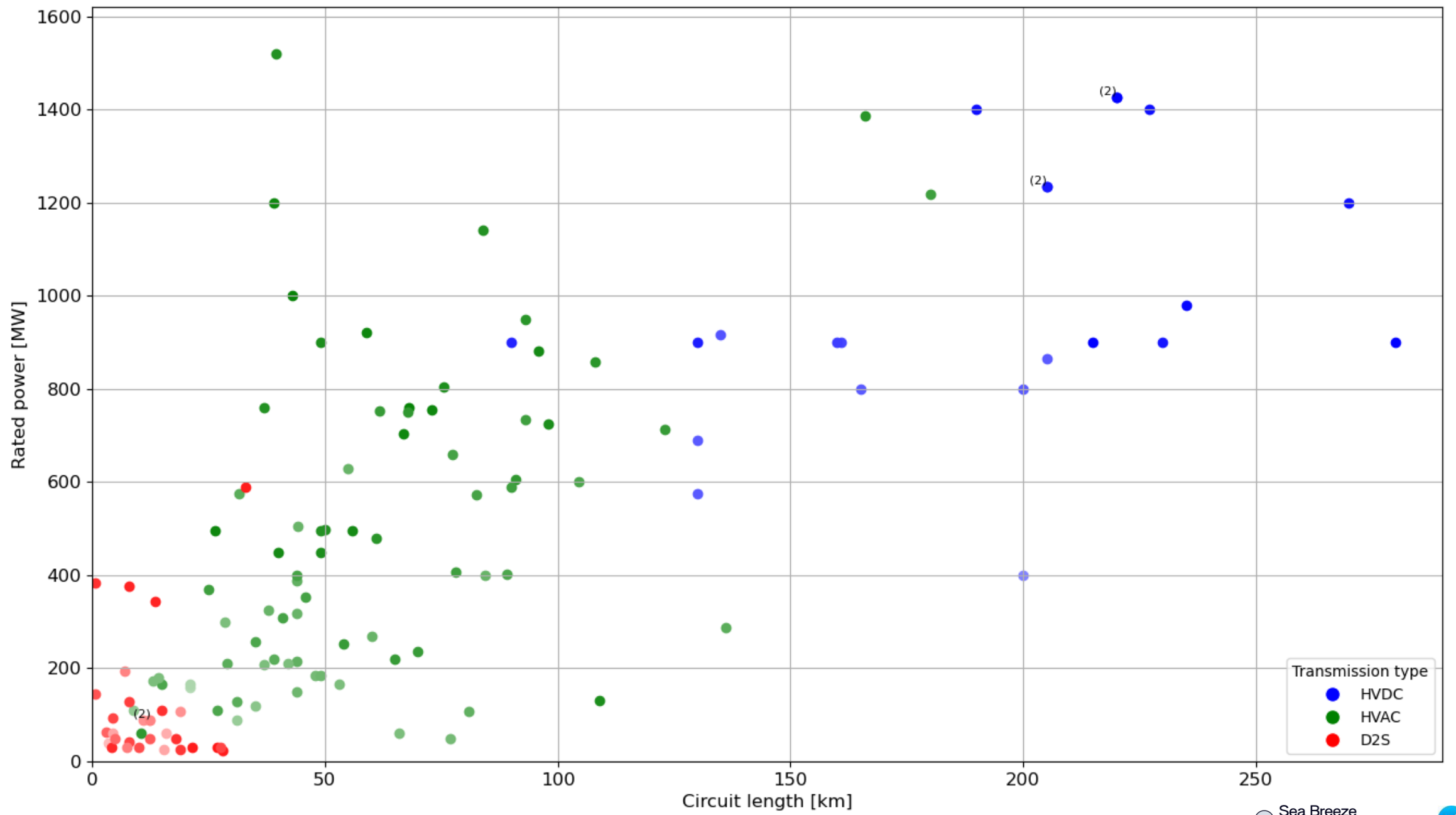
Evolution in transmission system design for offshore wind

Henrik Kirkeby
DeepWind 2024

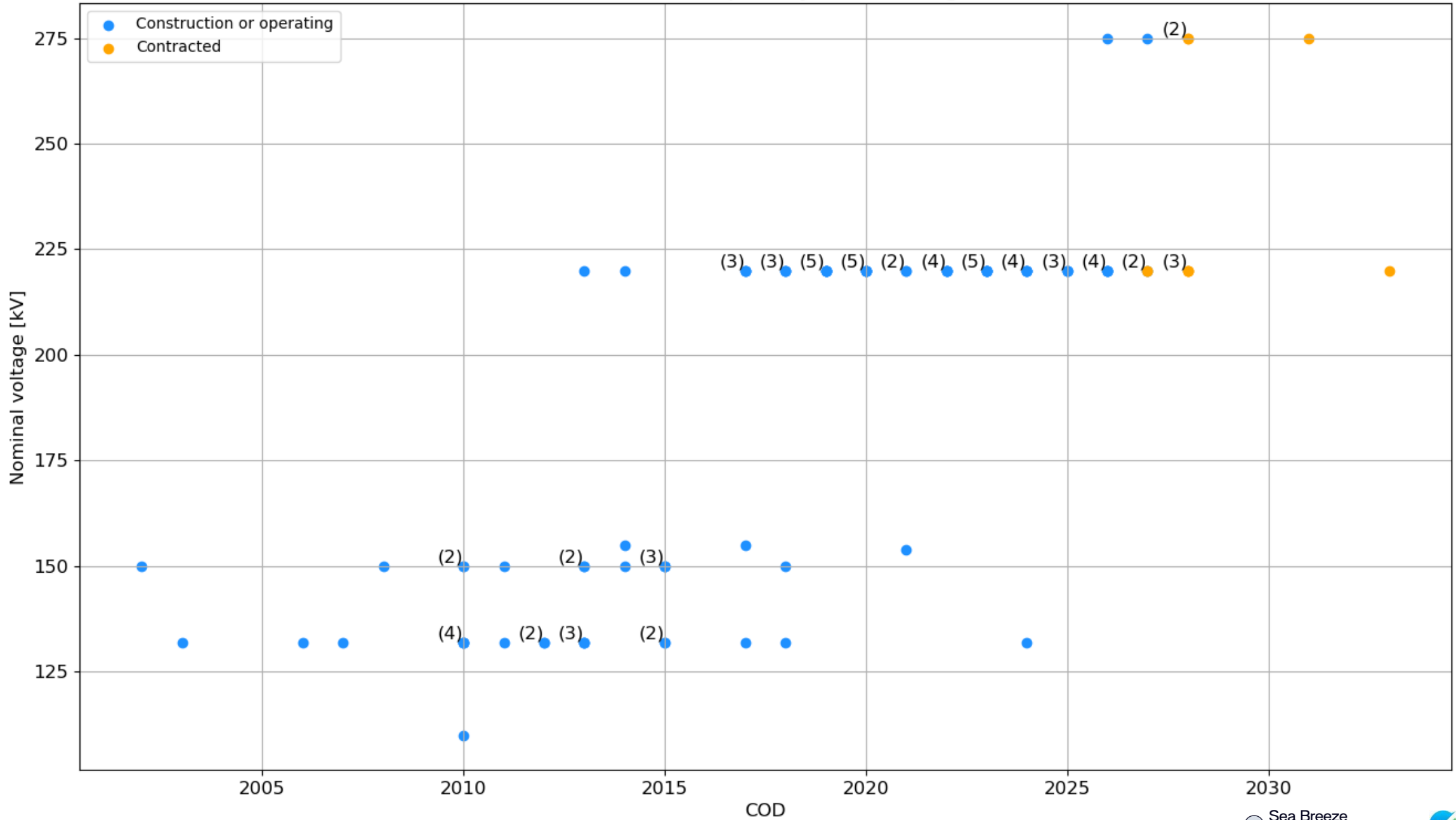
Increase in power and distance



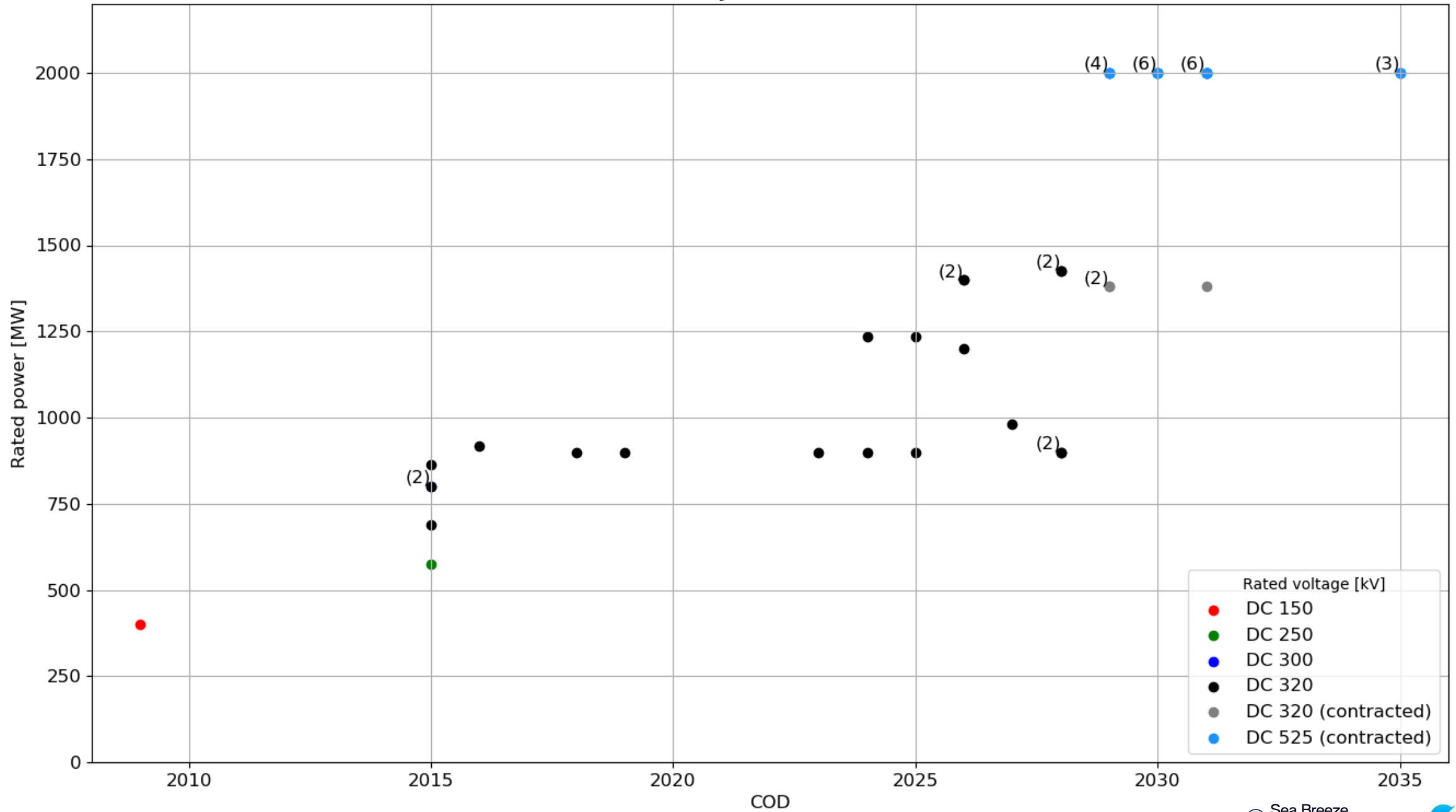
Transmission solution



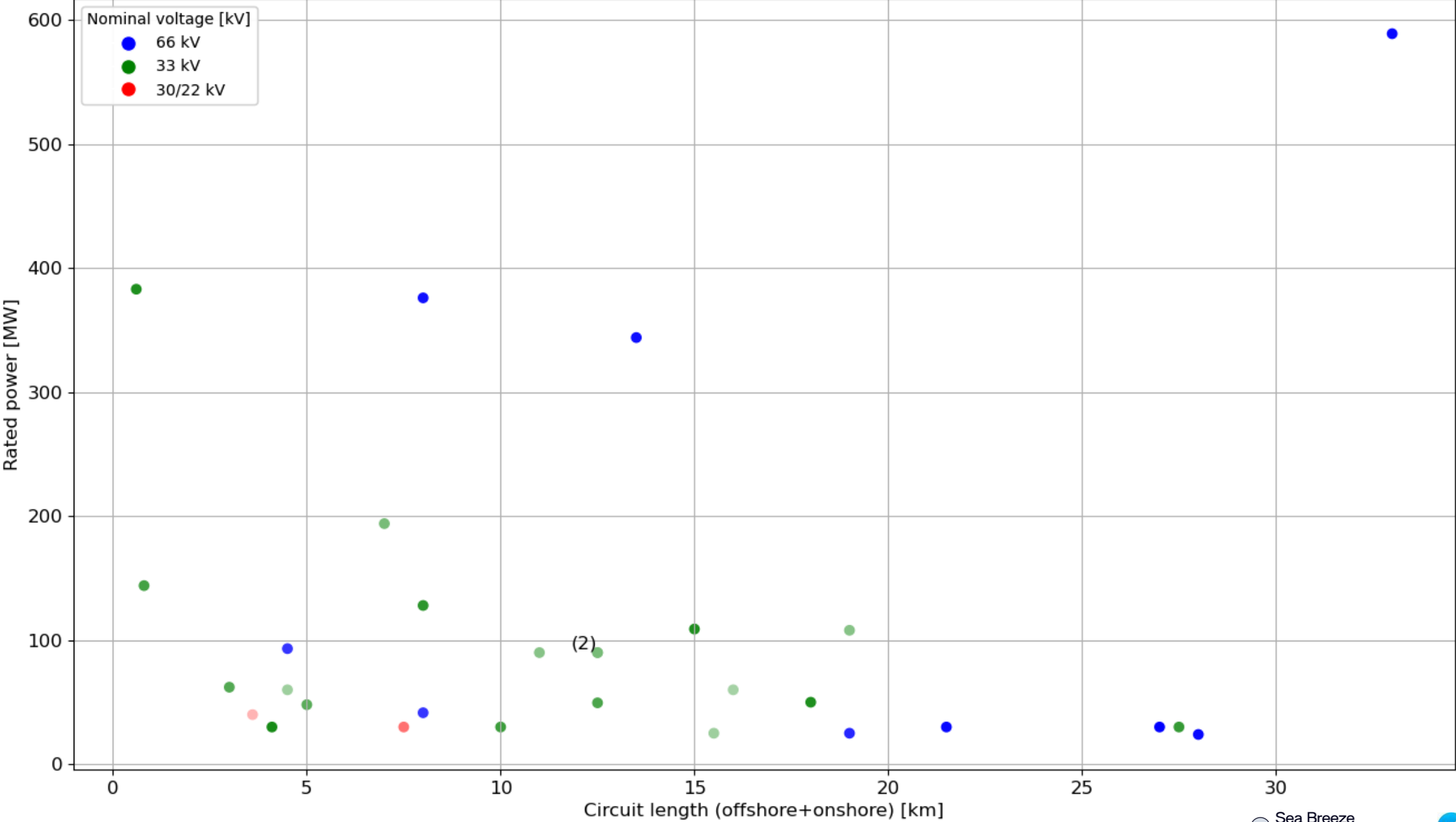
Increase in export system voltage



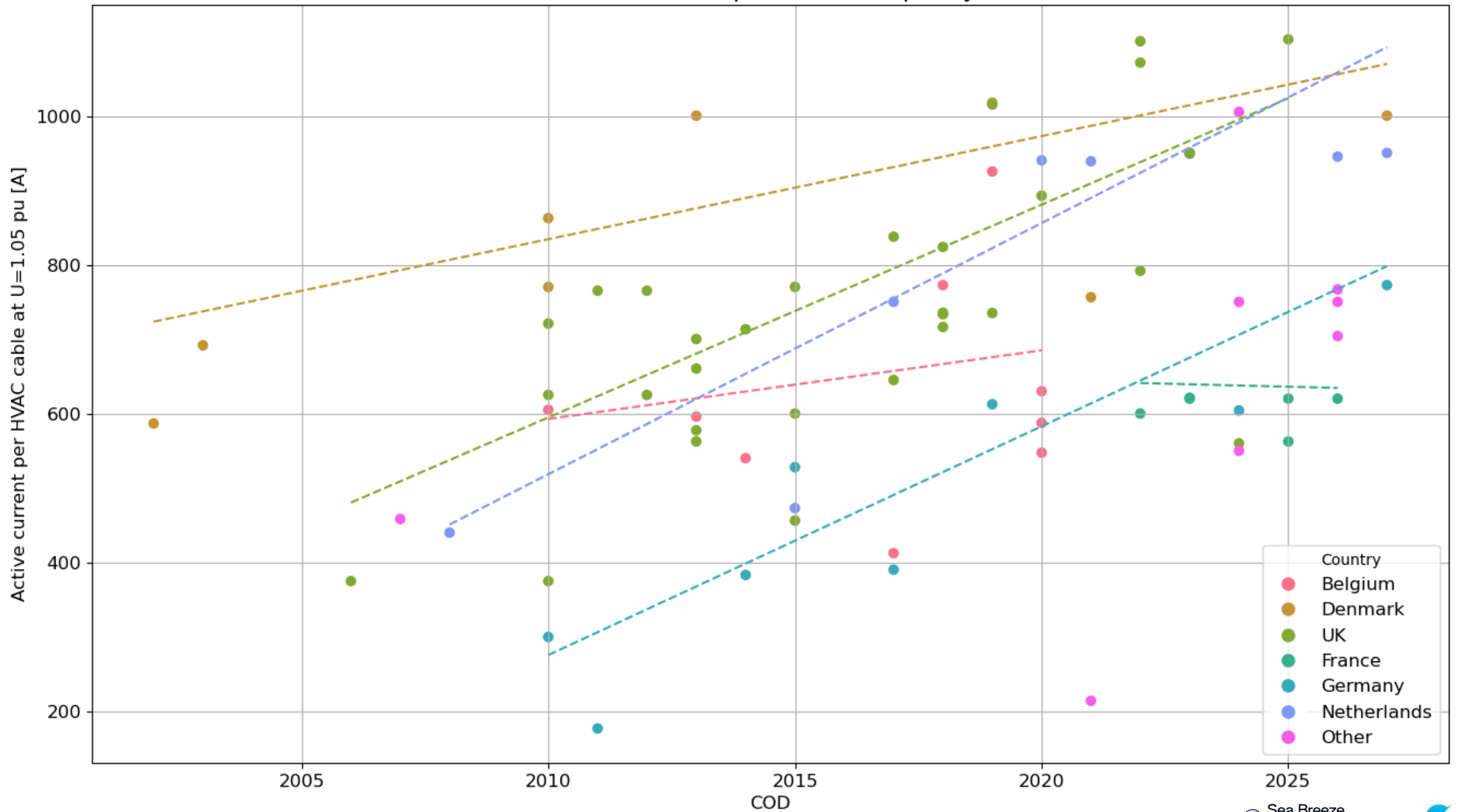
HVDC system evolution



Direct to shore projects



Increase in export cable ampacity



Conclusions

- Windfarm size and distance to shore increases for mature markets
- Export cable voltage and ampacity goes up, which limits cost
 - But optimal choice for transmission type and voltage is project dependent
- Cost efficient export systems is built by..
 - .. considering available technology and best practices
 - .. being aware of both the costs and benefits of standardisation