Can Global Climate Model projections meet Energy System Modeling needs? With **climate change** there is a rising need to **plan** for future renewable energy

systems **resilient** to the

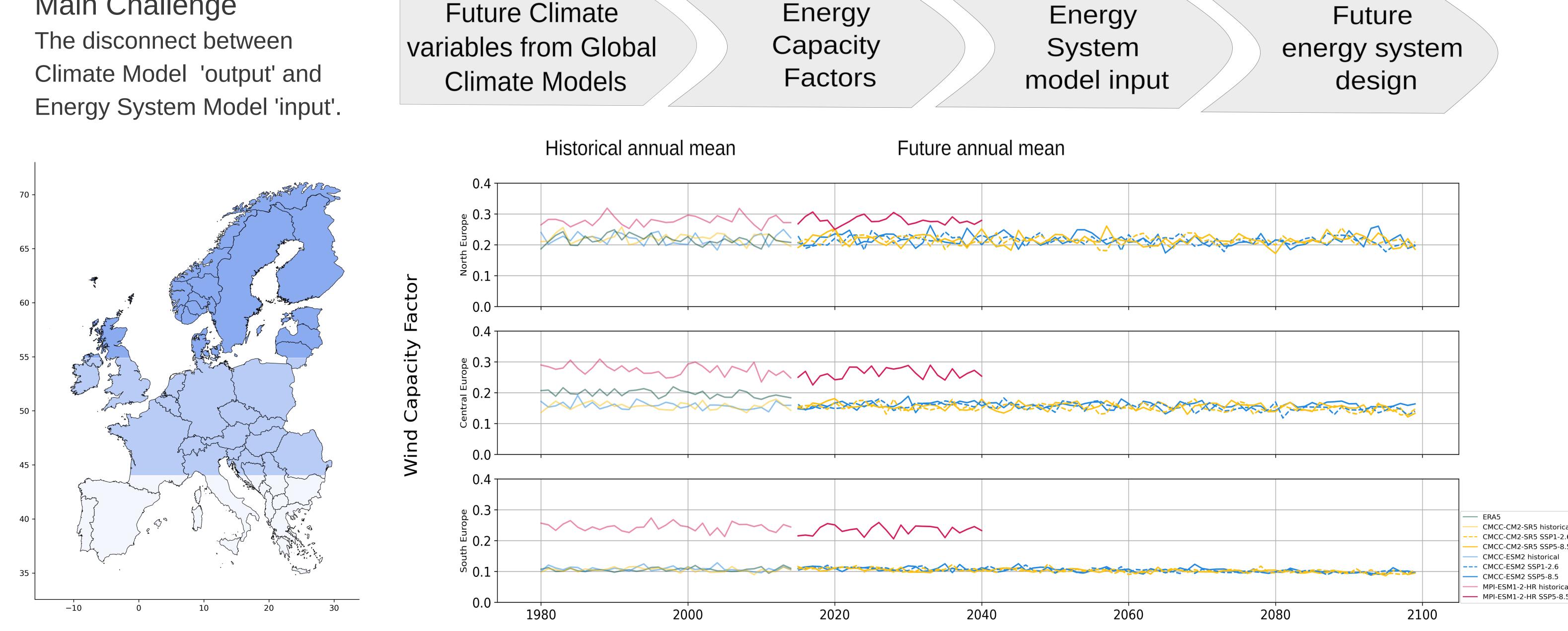
climate variability of the

Future calculation of wind energy capacity factors over Europe using CMIP6 model projections

Idunn Aamnes Mostue¹, Guillermo Andrés Valenzuela Venegas¹, Marianne Zeyringer¹, Trude Storelvmo2, and David Ruiz Baños

¹University of Oslo, Department of Technology Systems, ²University of Oslo, Department of Geosciences, ³University of Oslo, Department of Mathematics

Main Challenge The disconnect between Climate Model 'output' and





Outlooks we will further 1. Expand our model ensemble

2. Preform bias correction

3. Temporally and Spatially Downscale the Climate Data

4. Create a database of Single Future Weather years for Energy System Modeling





Idunn Aamnes Mostue idunnam@uio.no

