

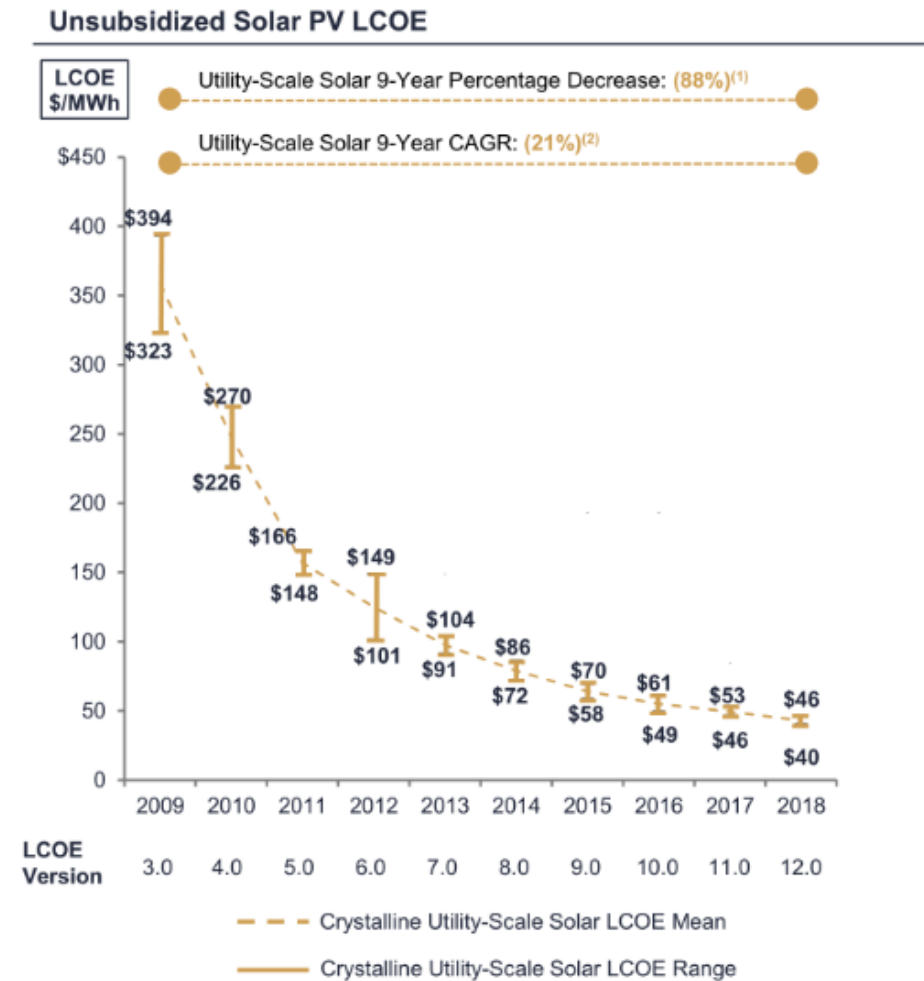
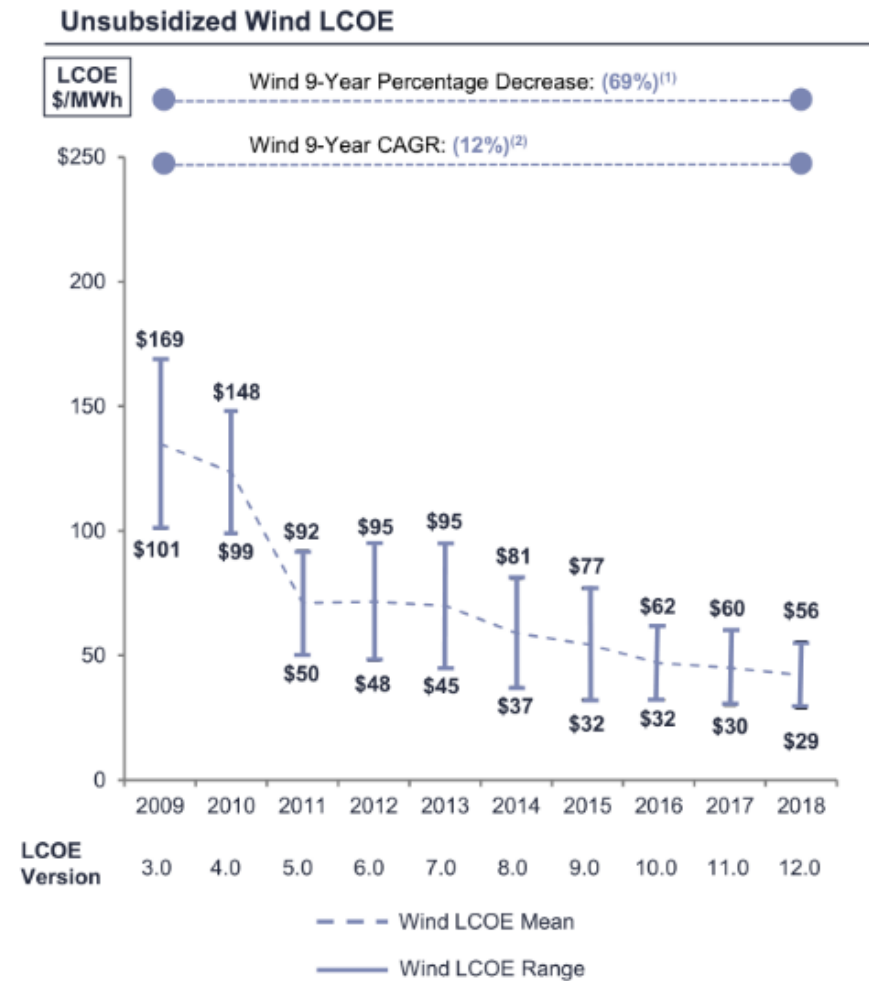
Task 44

Flexible bioenergy and system integration

Flexible Bioenergy workshop

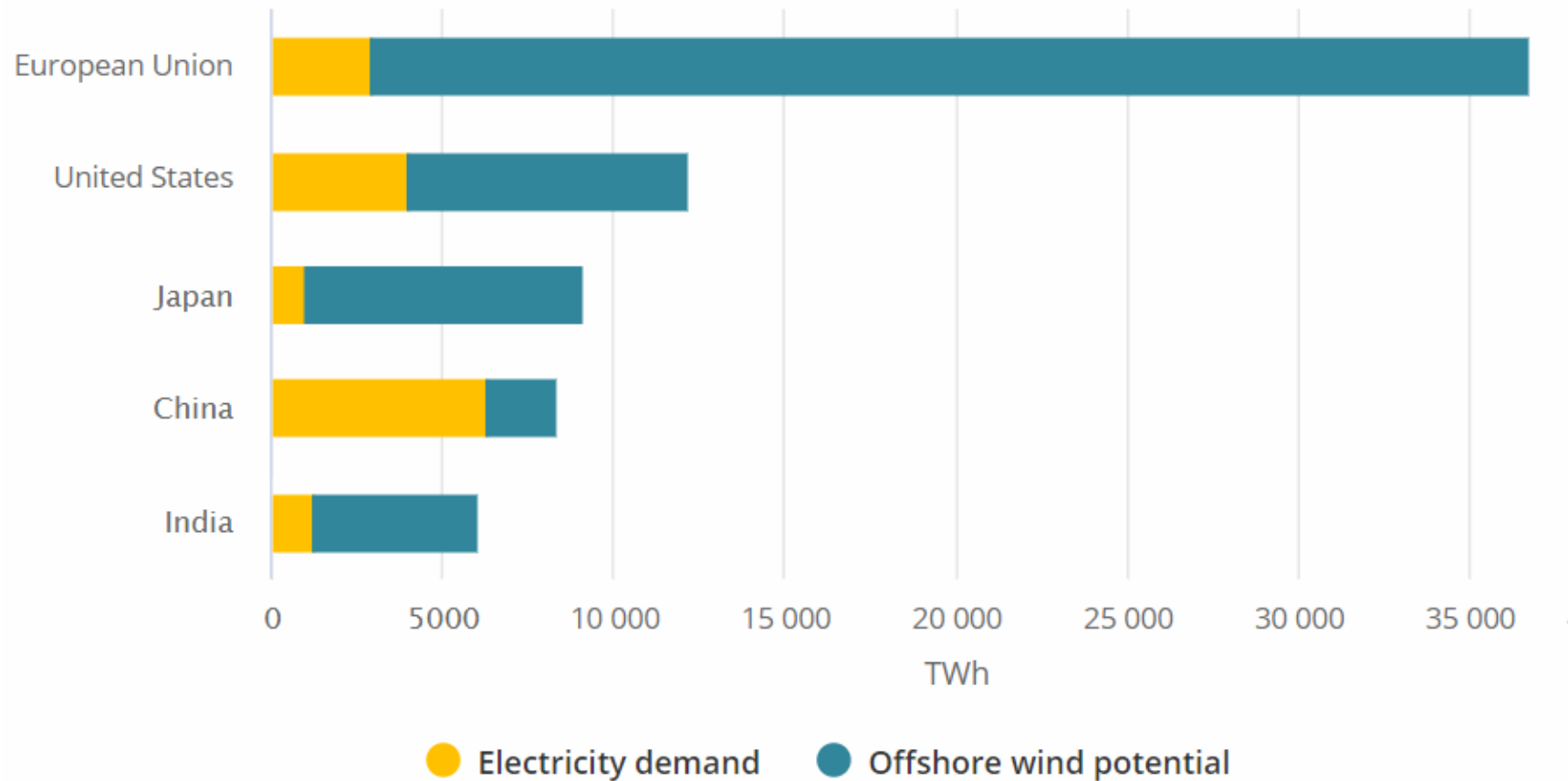
**Central European Biomass Conference
24th Jan 2020, Graz, Austria**

Cost of wind and solar has decreased drastically

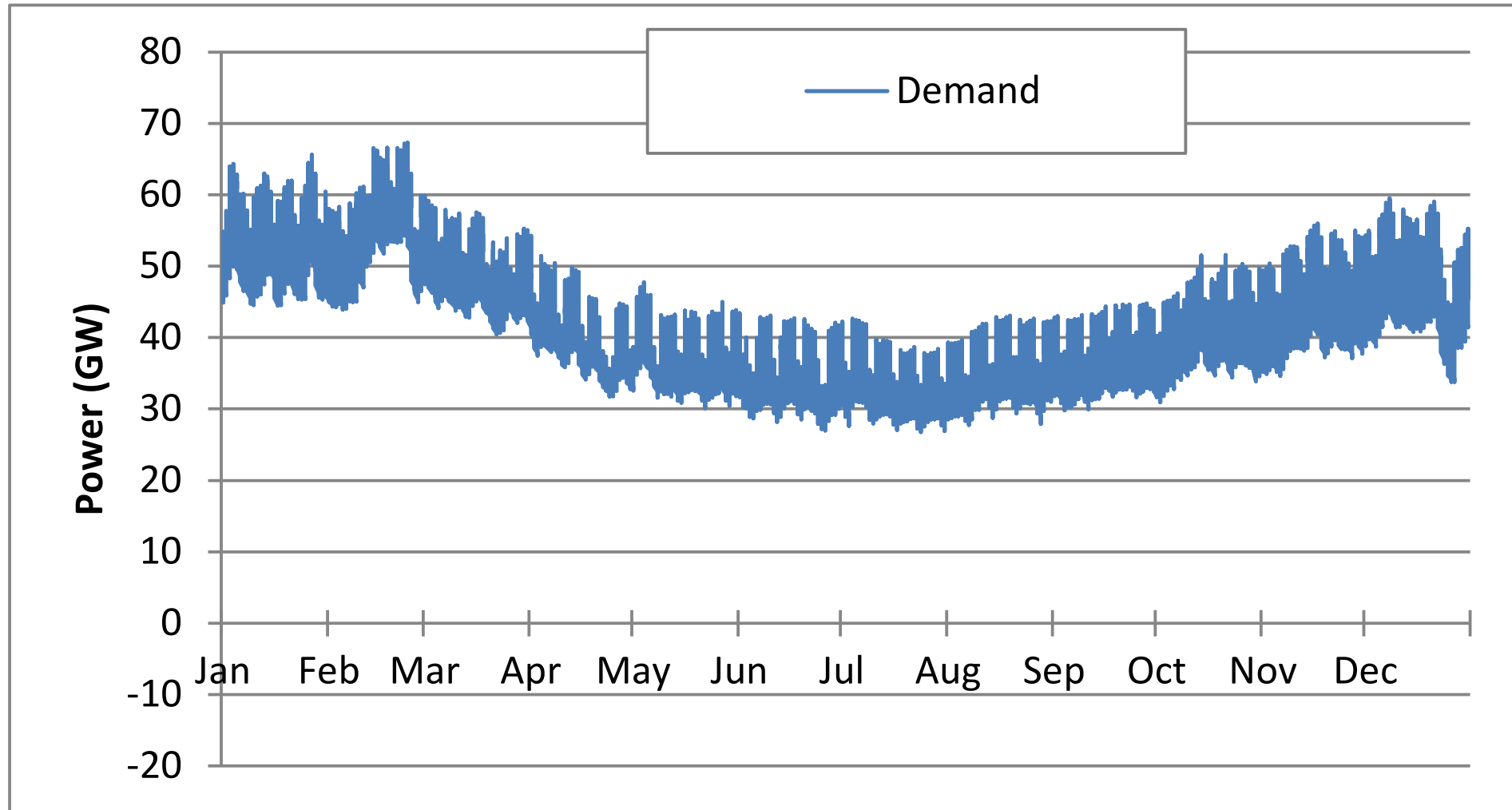


Offshore wind has massive potential

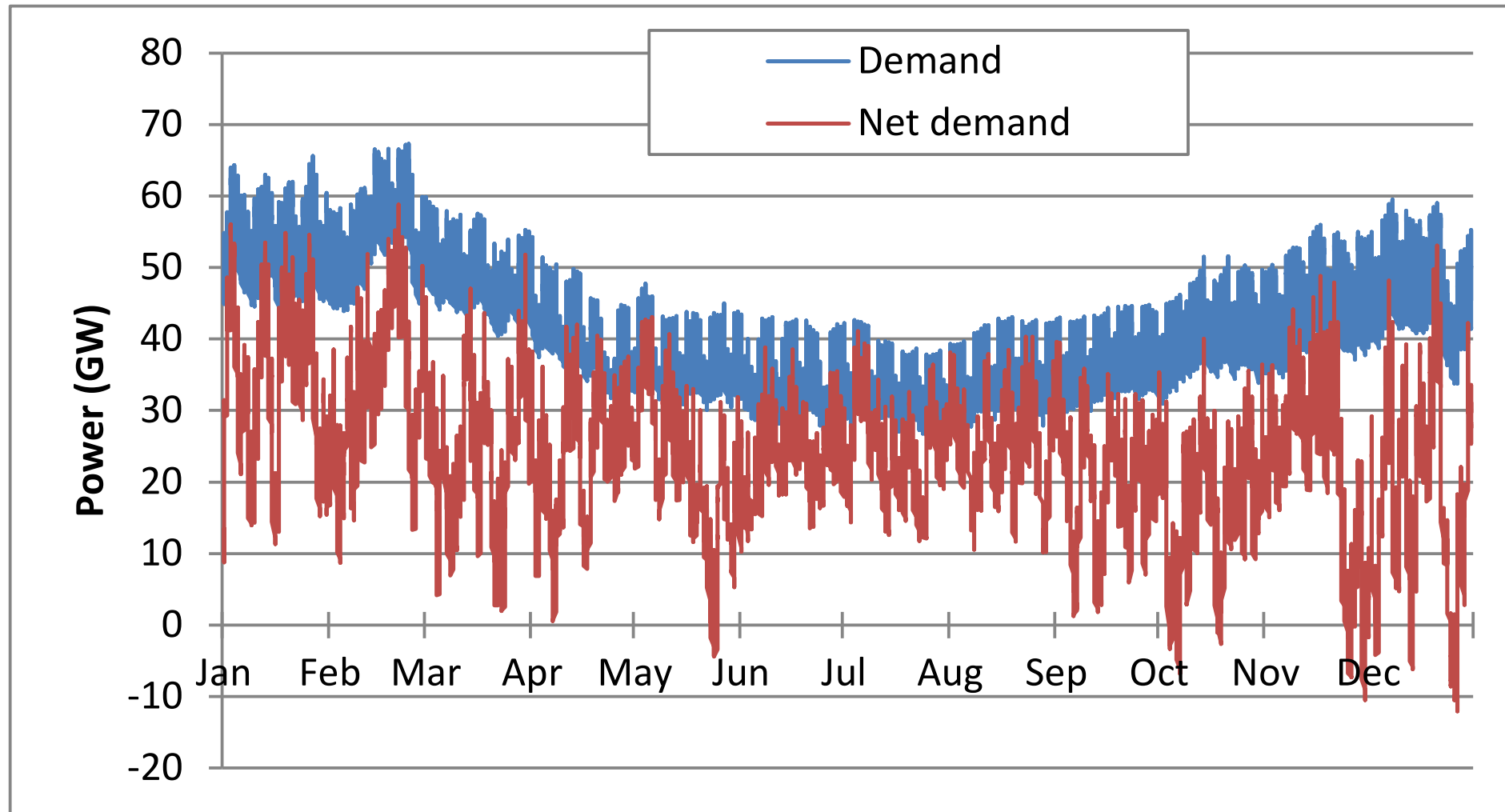
Offshore wind technical potential and electricity demand in 2018



Variability is normal

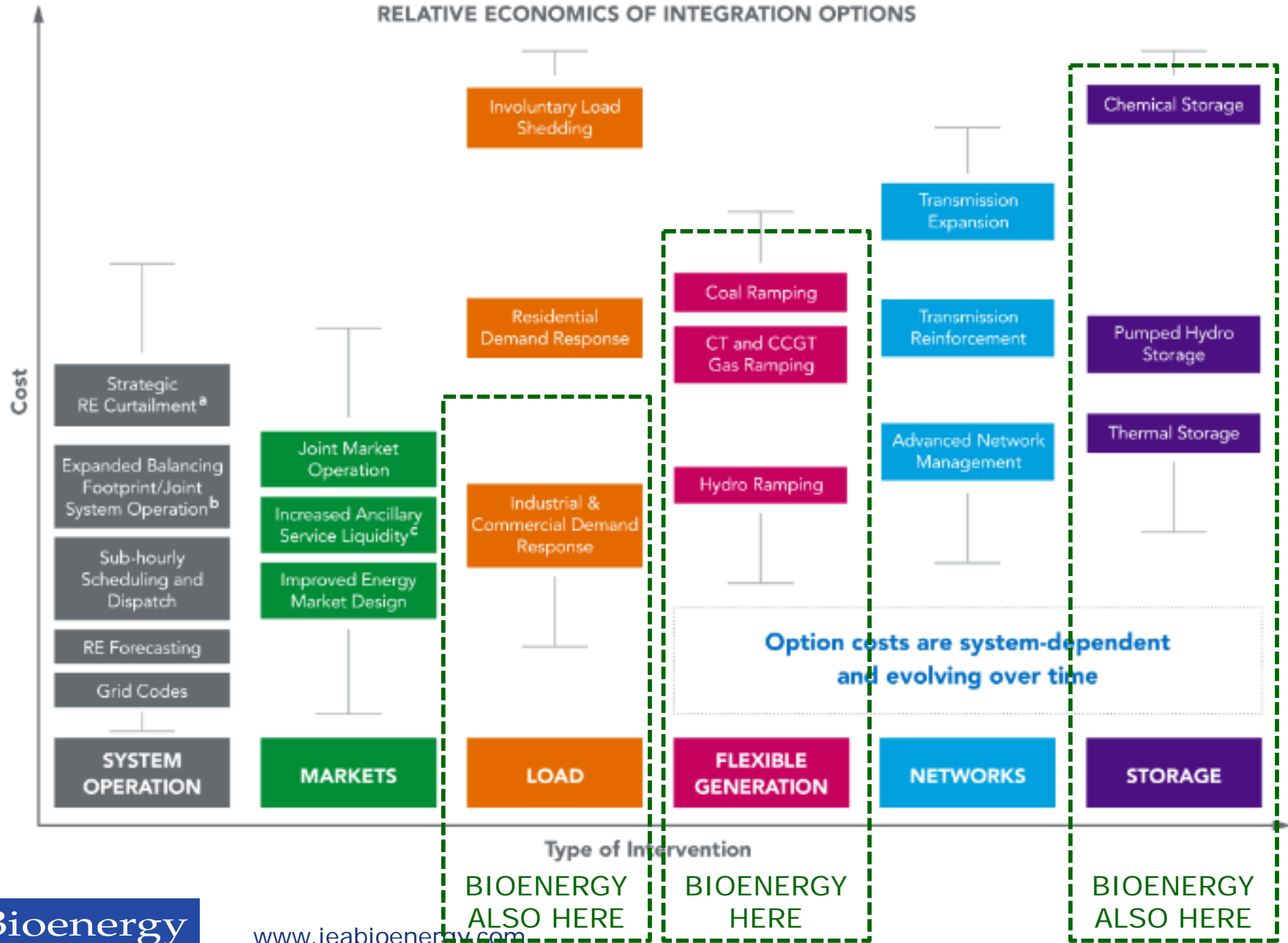


But variability increases with more wind



When 40% of electricity demand covered by wind power in an example system

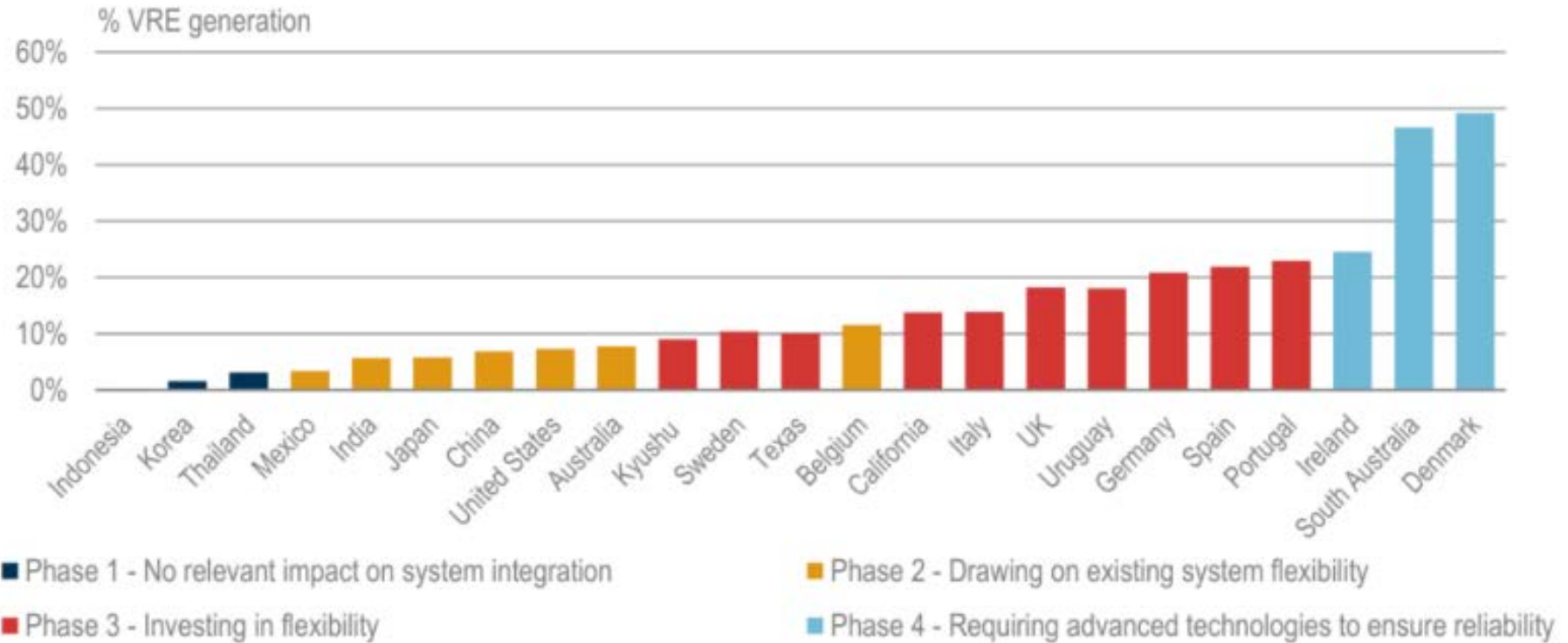
RELATIVE ECONOMICS OF INTEGRATION OPTIONS



VRE deployment phase in selected countries



VRE share in annual electricity generation and system integration phase, 2017



Many countries/regions in Phase 1 and 2 are transitioning to higher phases of system integration

Source: Renewable 2018: Analysis and Forecasts to 2023

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IEA Bioenergy Task 44:

“Flexible bioenergy and system integration”

Member states

- Australia
- Austria
- Finland
- Germany
- Ireland
- The Netherlands
- Sweden
- Switzerland
- USA

Deliverables (2019 – 2021)

D1.1 Promising bioenergy concepts for low-carbon energy system

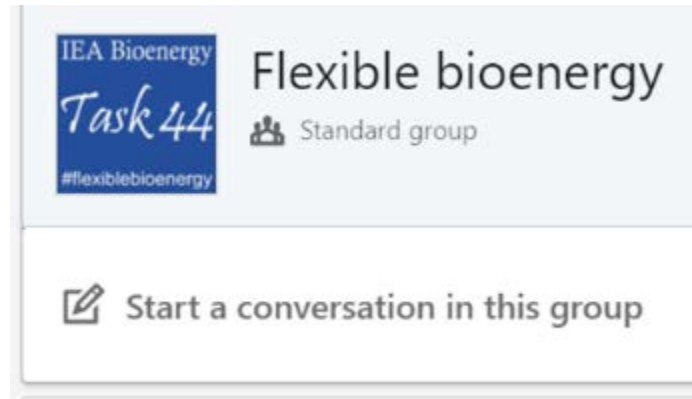
D2.1 The status and role of flexible bioenergy in selected MS

D2.2 RDD&I Roadmap

D3.1 Workshop: “Renewables integration”

D3.2 Workshop: “Role of bioenergy in a low-carbon energy system”

Our website & LinkedIn group



<https://www.linkedin.com/groups/13682476/>

