

Swedish Offshore Wind Market

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- The Swedish Wind Energy Association (SWEA) is the trade association for companies working with wind power - onshore and offshore - in Sweden
- More than 160 member companies in the whole value chain – from wind power producers to energy intense industry

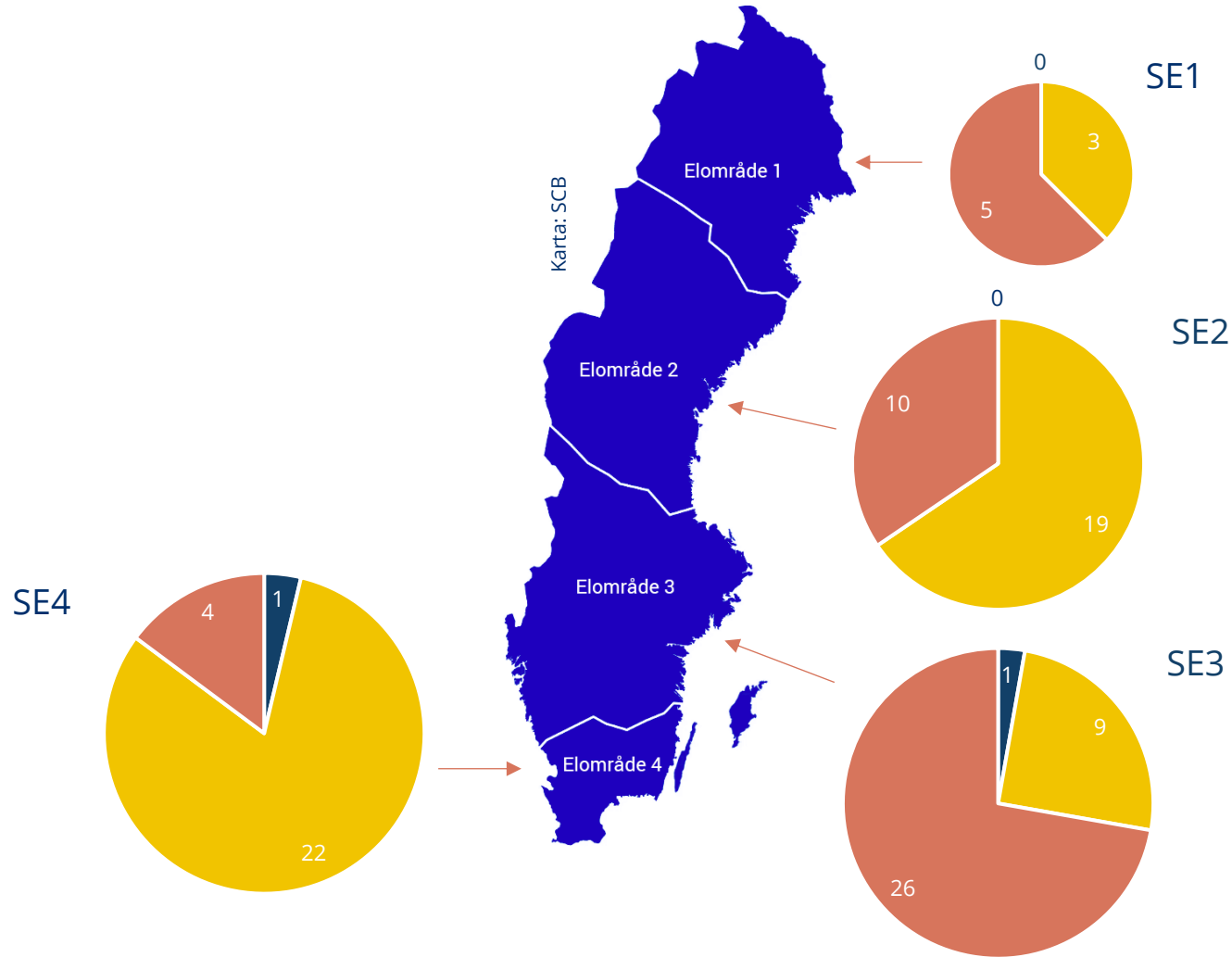
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Offshore Wind in Sweden

- Targets:
 - Net zero emissions 2045
 - Energy target: “plan for 300 TWh electricity use 2045”
- Offshore parks online
 - Lillgrund (Vattenfall, 2007)
 - Kårehamn (RWE, 2013)
- Open door market based, developer driven, system (under revision)



Offshore Wind Power Projects



A total of 100 gigawatt (GW) offshore wind power under development*

- 2 GW with permits
- 52 GW in the permitting process
- 46 GW in consultation

*In addition, there are more than 42 GW in the early stages.

Offshore Wind Power in Permitting Process

- 22 projects awaiting environmental permit from the government (see picture)
- Four projects in the Swedish economic zone have received a decision from the government on the environmental permit
- In addition, several projects are applying for an environmental permit in territorial waters



Source: regeringen.se

Faster Permitting Process Needed



Offshore regulations under revision

- Revision of the Maritime spatial plans: indicative target to enable 120 TWh offshore energy (dec 2024)
- Inquiry Commission of Off Shore Wind Power (Utredningen om havsbaserad vindkraft, nov 2024) will investigate exclusivity and a more streamlined regulation
- Grid Connection of OffShore Wind (Anslutning av havsbaserad vindkraft). TSO Svenska Kraftnät is planning to be able to connect 14,5 GW until 2041



Foto: iStock Photo

Transmission capacity

	Maritime zone	Allocated capacity
S1	Norra Västerhavet	1 200 MW
		1 500 MW
S3	Sydvästra Östersjön	2 850 MW
S4	Sydöstra Östersjön	1 600 MW
S5	Mellersta Östersjön 1	1 500 MW
S6	Mellersta Östersjön 2	-
S7	Norra Östersjön	1 000 MW
S8	Bottenhavet	2 400 MW
S9	Bottenviken	1 400 MW
	Total	14 450 MW

Source: Svenska kraftnät



Thank you!

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svenskvindenergi.org