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der Republik Polen
in Berlin

IKEM: Transnational energy collaboration in the Baltic Sea region

On the cusp of accelerated development: Offshore wind and hydrogen in Poland

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The role of hydrogen in the energy policy:

- *One of the biggest hydrogen producers and consumers in the world*
- *Polish Hydrogen Strategy until 2030 with a perspective until 2040*
- *Colour palette*

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Polish Hydrogen Strategy:

Strategy sets the long-term vision for the industry and multiple stakeholders.

- *Objective 1 - implementation of hydrogen technologies in the energy and heating sectors*
- *Objective 2 - use of hydrogen as an alternative fuel in transport*
- *Objective 3 - support for industry decarbonisation*
- *Objective 4 - production of hydrogen in new installations*
- *Objective 5 - efficient and safe transmission, distribution and storage*
- *Objective 6 - creation of a stable regulatory environment.*

Source: https://www.paih.gov.pl/dlaczego_polska/strategiczne_polozenie

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Offshore development in Poland – support schemes

Phase I - pre-auction

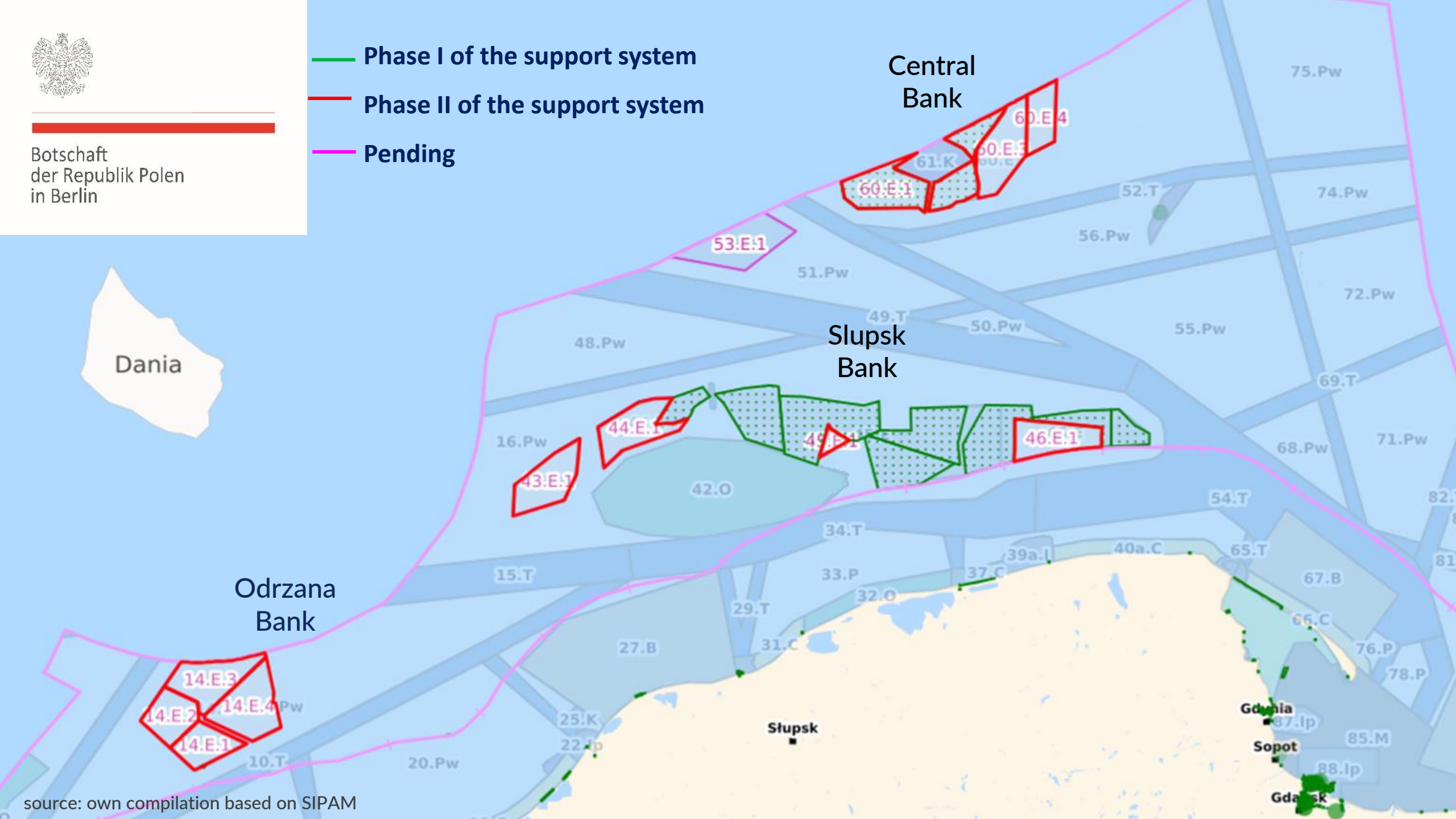
lasted until June 30, 2021

- applications due by March 31, 2021
- support from the ERO President for 7 projects with a total capacity of 5.9 GW
- the projects have been granted support in the form of a 25-year Contract for Difference (CfD)
- maximum price of PLN 319.6 (EUR 71.82) for a MWh of electricity produced at OWF

Phase II - auction

2025 onwards

- min. 3 bidders, the bid with the lowest energy price wins
- auction dates and volumes:
  - 4 GW in 2025
  - 4 GW in 2027
  - 2 GW in 2029
  - 2 GW in 2031
- later auctions also possible



source: own compilation based on SIPAM

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Phase I - Projects

	OWF	Investor	Investor-Partner	capacity (support)	distance from shore
1	Baltic Trade and Invest sp. z o.o.	RWE Renewables	(100%)	350 MW	50 km
2	MFW Bałtyk II sp. z o.o.	Polenergia (50%)	Equinor (50%)	720 MW	22 km
3	Elektrownia Wiatrowa Baltica - 2 sp. z o.o.	PGE Baltica (50%)	Orsted (50%)	1498 MW	40 km
4	MFW Bałtyk III sp. z o.o.	Polenergia (50%)	Equinor (50%)	720 MW	22 km
5	Elektrownia Wiatrowa Baltica - 3 sp. z o.o.	PGE Baltica (50%)	Orsted (50%)	1045,5 MW	25 km
6	Baltic Power sp. z o.o.	Orlen (51%)	Northland Power (49%)	1197 MW	23 km
7	BC - Wind Polska	Ocean Winds	(100%)	369,5 MW	23 km
	Total			5900 MW	

source: own compilation based on SIPAM

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Phase II - Projects

PSZW	OWF	capacity
60.E.1	MFW Bałtyk I sp. z o.o.	1 560 MW
60.E.2	Elektrownia Wiatrowa Baltica - 1 sp. z o.o.	896 MW
14.E.1	Energa MFW 1 sp. z o.o.	812 MW
14.E.2	Energa MFW 2 sp. z o.o.	896 MW
14.E.3	Orlen Neptun III sp. z o.o.	1 204 MW
14.E.4	Orlen Neptun IV sp. z o.o.	1 204 MW
43.E.1	PGE Baltica 4 sp. z o.o.	990 MW
44.E.1	Elektrownia Wiatrowa Baltica 9 sp. z o.o.	975 MW
45.E.1	Elektrownia Wiatrowa Baltica 2 sp. z o.o.	210 MW
46.E.1	Orlen Neptun VIII sp. z o.o.	966 MW
53.E.1	?	
60.E.3	Elektrownia Wiatrowa Baltica 1 sp. z o.o.	1 185 MW
60.E.4	Elektrownia Wiatrowa Baltica 5 sp. z o.o.	555 MW
	Total	11 453 MW

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THANK YOU FOR YOUR ATTENTION