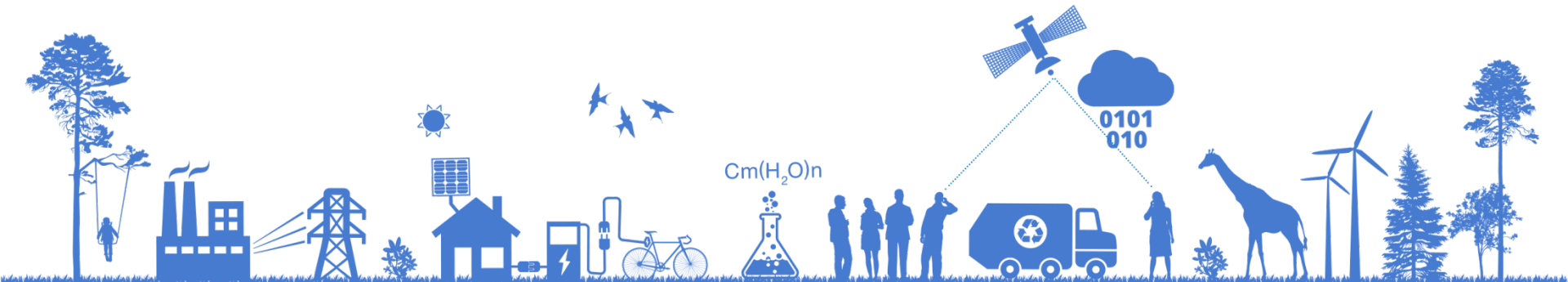


The Swedish Energy Agency's Perspectives on Marine Energy

Sara Bargi

Head Sustainable power unit

Swedish Energy Agency



Our mission: A renewable energy system

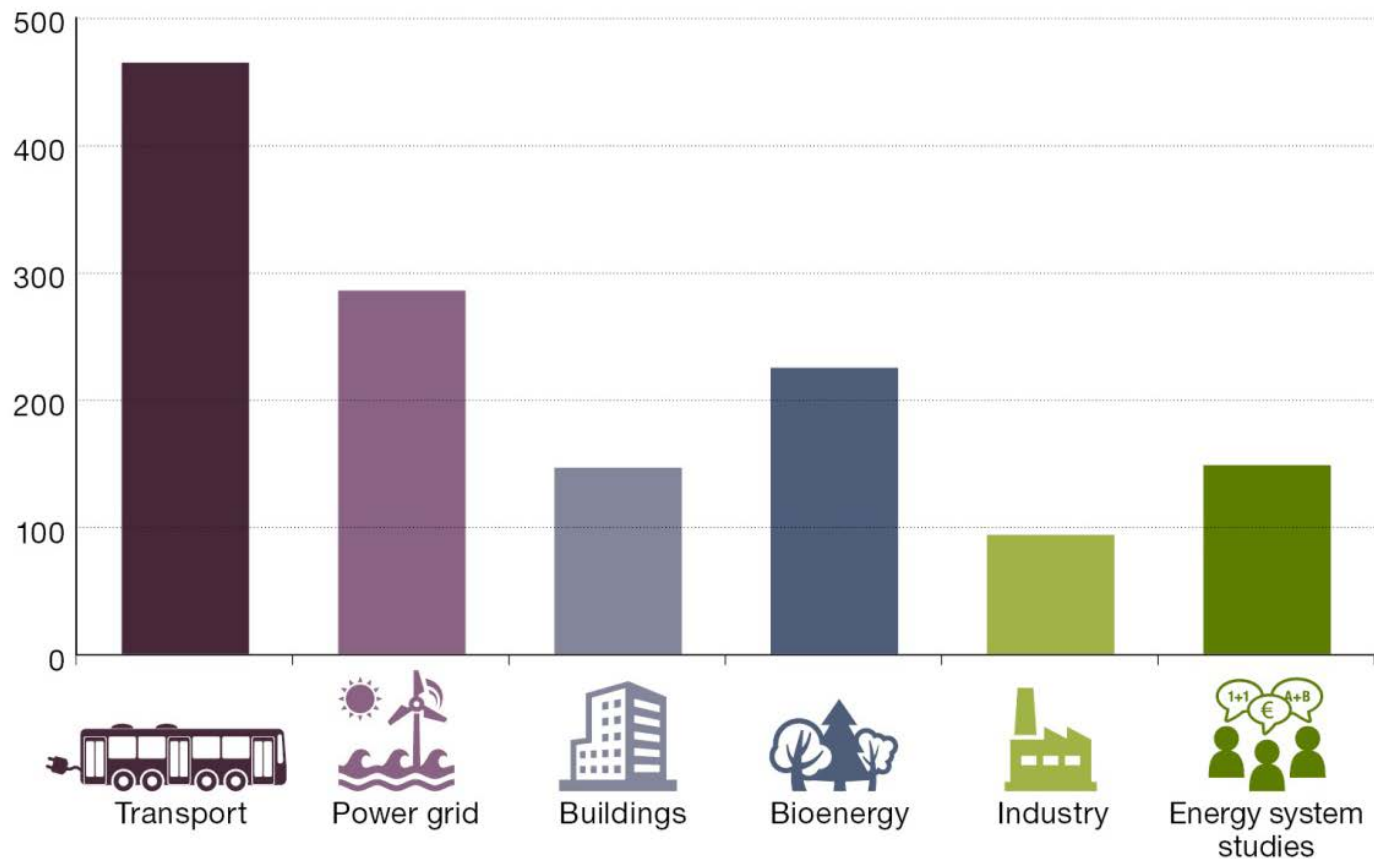
- National authority for energy policy issues
- Sorts under Ministry of Environment and Energy
- The Director-General is appointed by the Government
- Government funded
- Around 370 employees, Eskilstuna

Funding of energy research and innovation is part of policy to achieve a renewable energy system

Research and innovation funding

- From basic research to demonstration
- Annual budget approximately 140 million €
- Doubled through industrial co-funding
- Some 55 programmes and 900 projects running
- In-house priority settings and evaluation of proposals

Research funding per theme area, 2014, million SEK



R&I Vision for a Renewable Power System

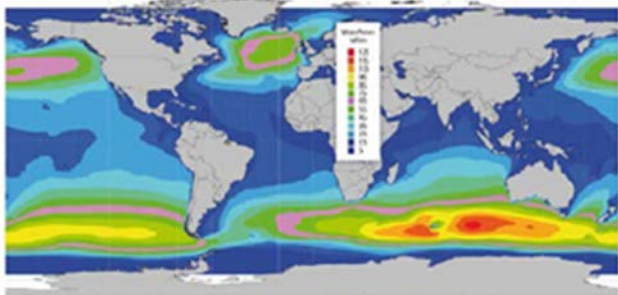
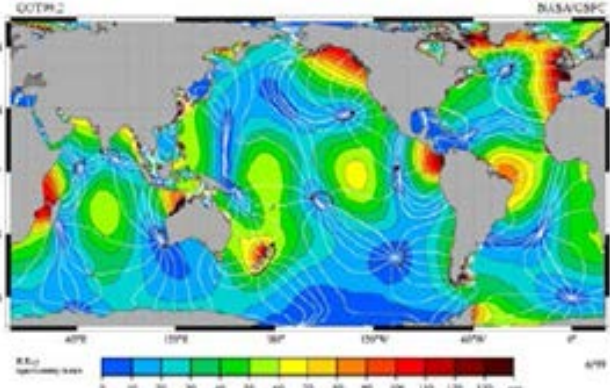


Sweden's electricity system supports at least 100 % renewable electricity while maintaining security of supply. The electricity system is carbon neutral, resource efficient and cost efficient

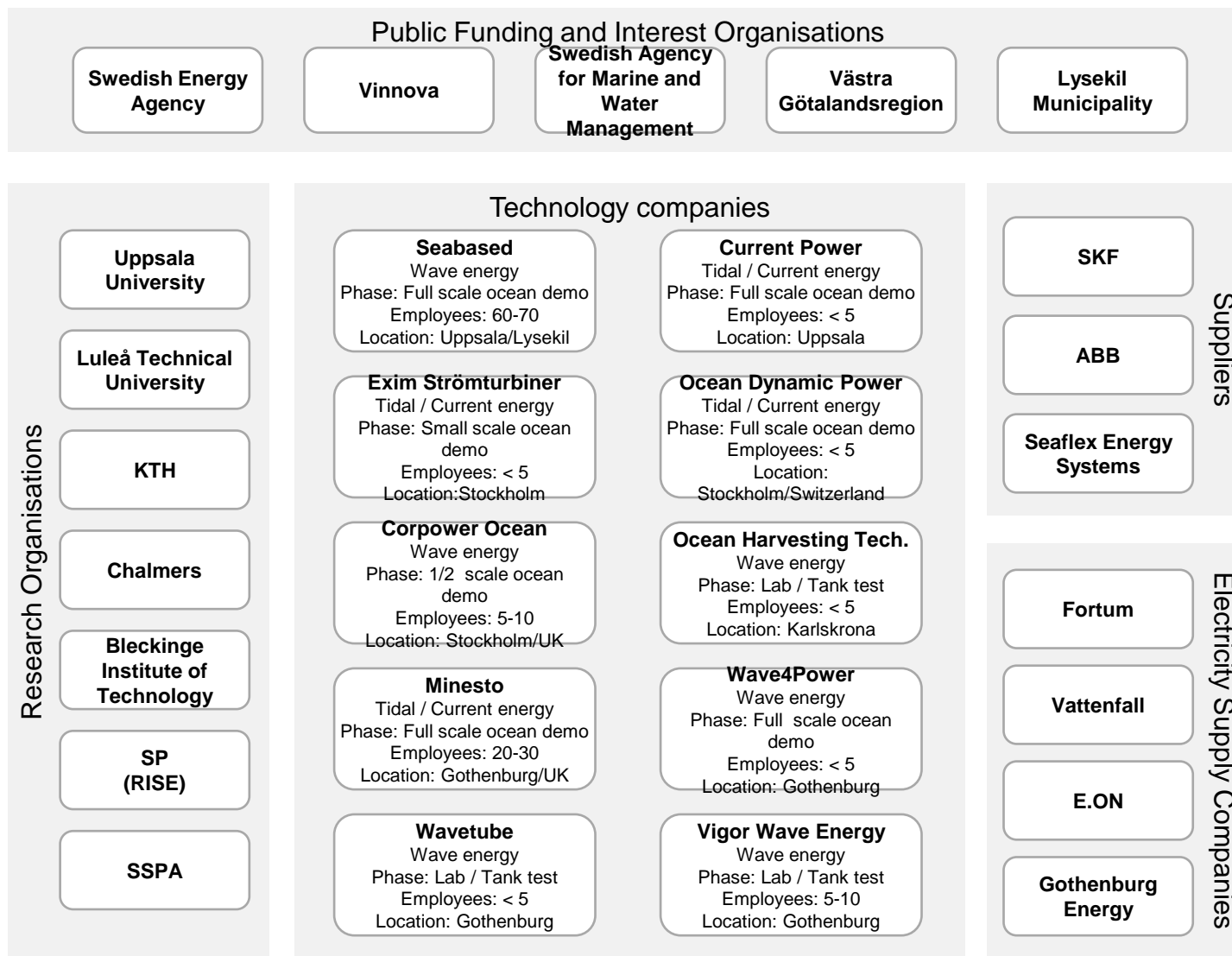
Sweden is in several areas world leading within the electricity sector and delivers knowledge, innovation and energy services on a global market

Swedish consumers, prosumers and producers provide flexibility and make use of competitive prices

Ocean Energy Potential

<i>Realistic potential</i>	Wave Energy	Tidal Energy
Sweden	<ul style="list-style-type: none"> • 10 – 30 TWh/year • ≈ 7 % of electricity use 	<ul style="list-style-type: none"> • No potential
West Europe	<ul style="list-style-type: none"> • 420 TWh/year • ≈ 15 % of electricity use 	<ul style="list-style-type: none"> • 48 TWh/year • ≈ 1.5 % of electricity use
Worldwide	<ul style="list-style-type: none"> • 4 400 TWh/year • ≈ 28 % of electricity use 	<ul style="list-style-type: none"> • 350 TWh/year • ≈ 2.2 % of electricity use
	 <p>Figure 6.1 Global offshore annual wave power level distribution (Cornett, 2008).</p>	

Ocean Energy in Sweden – Stakeholders



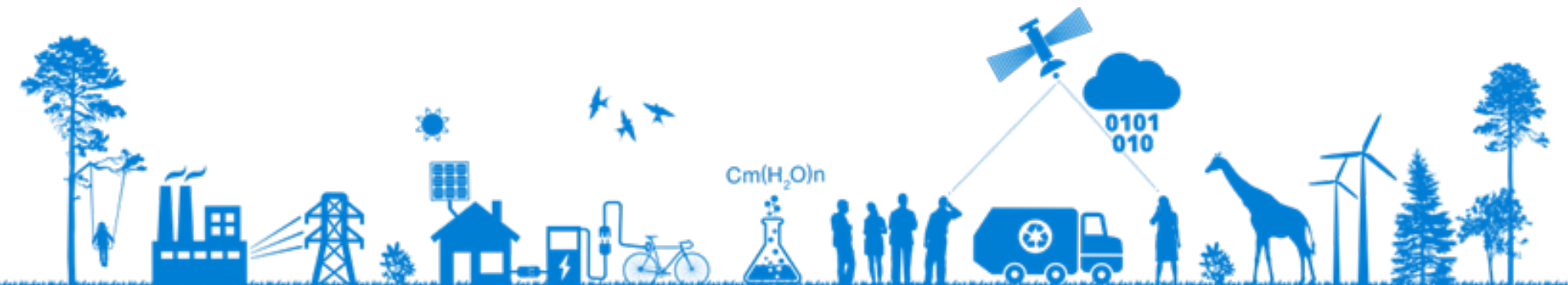
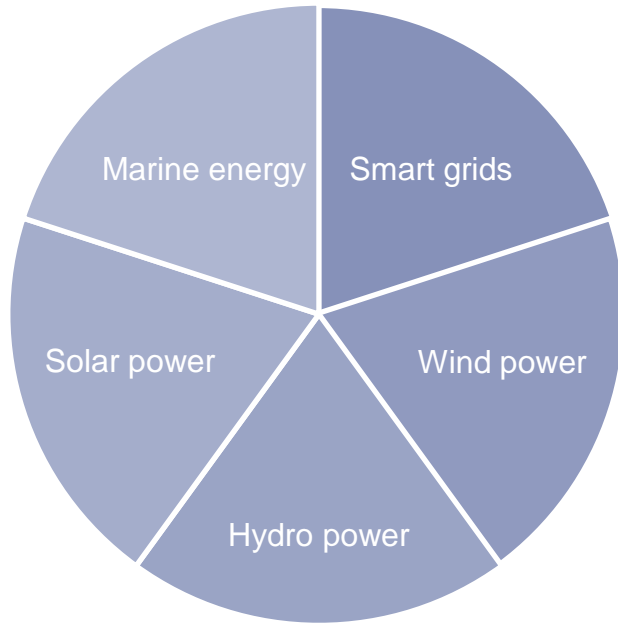
R&I programme on Marine energy conversion (MEO)

R&I Objectives Marine energy in Sweden:

Improve Sweden's already solid position within research and development

Contribute to the development of sustainable electricity production systems, with the potential for implementation in Sweden and abroad

Contribute to increased collaboration between (and within) the private and academic sectors, both nationally and internationally



R&I programme on Marine energy conversion (MEO)

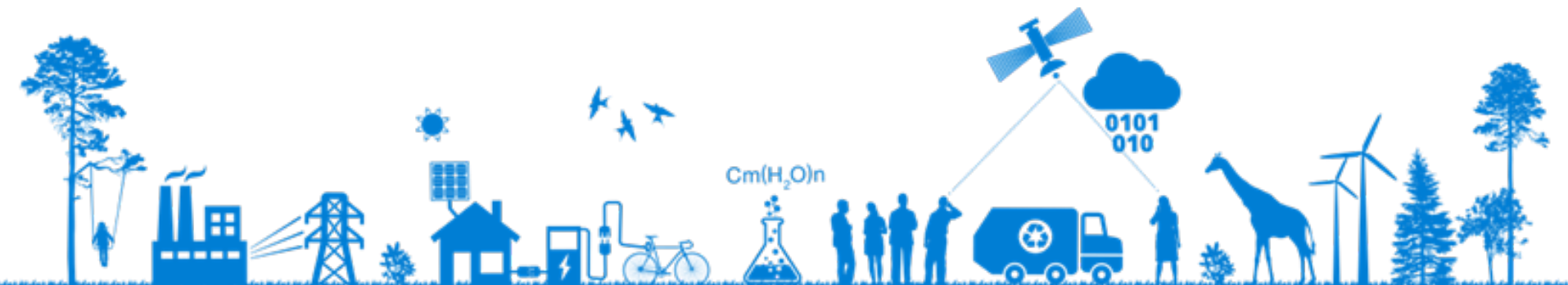
R&I Objectives Marine energy in Sweden:

- SEK 53 million (\approx 5 MEUR)
2015 – 2018
- Call 1 - 2015: 7 projects
funded - \approx 30 MSEK (23
submitted)
- Call 2 - 2016: 26 projects
submitted

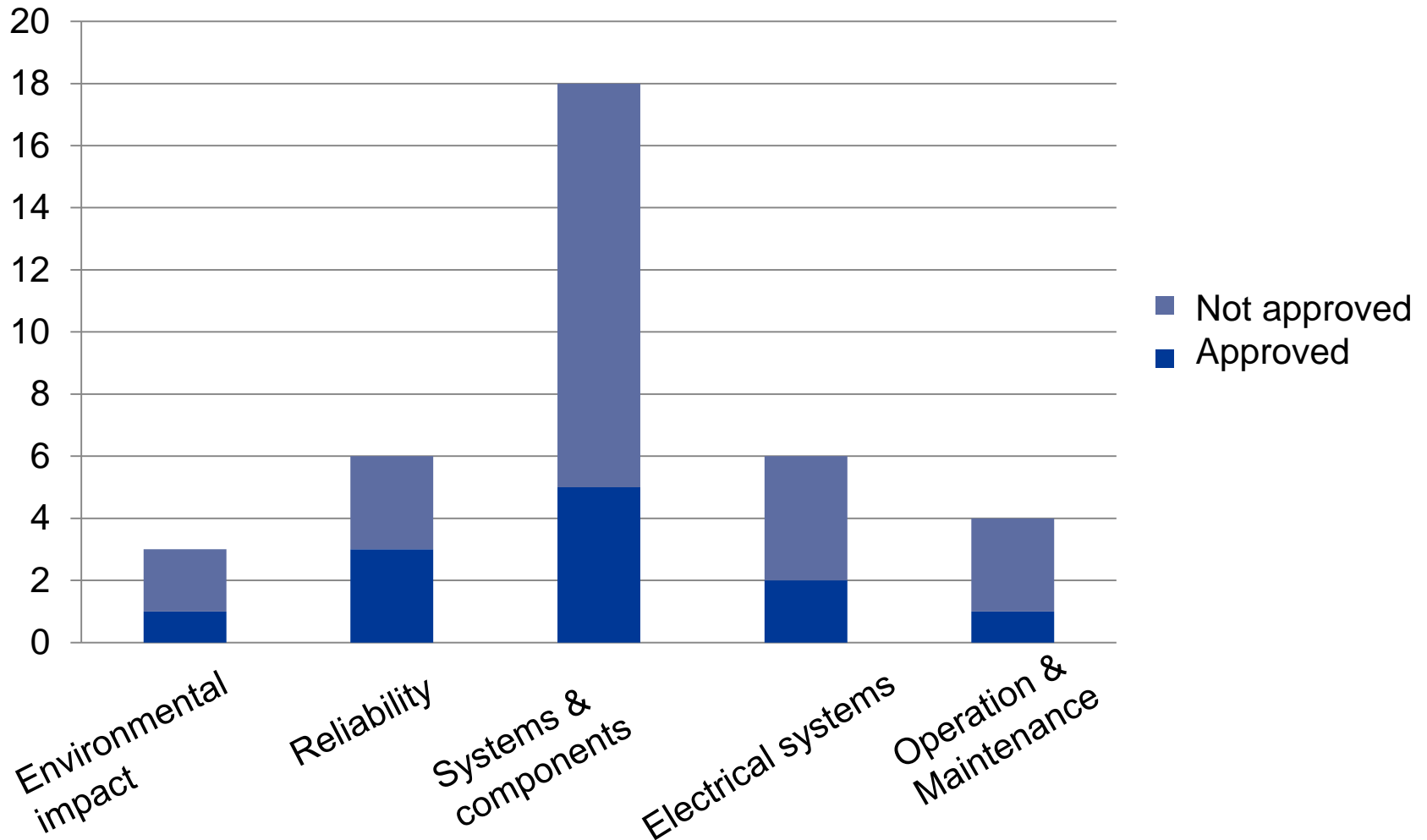
Improve Sweden's already solid position within research and development

Contribute to the development of sustainable electricity production systems, with the potential for implementation in Sweden and abroad

Contribute to increased collaboration between (and within) the private and academic sectors, both nationally and internationally



Projects funded in first call



OCEANERA-Net

- 2nd call launched
- Application for cofund submitted

IEA OES

- Annex IV-
environmental
issues

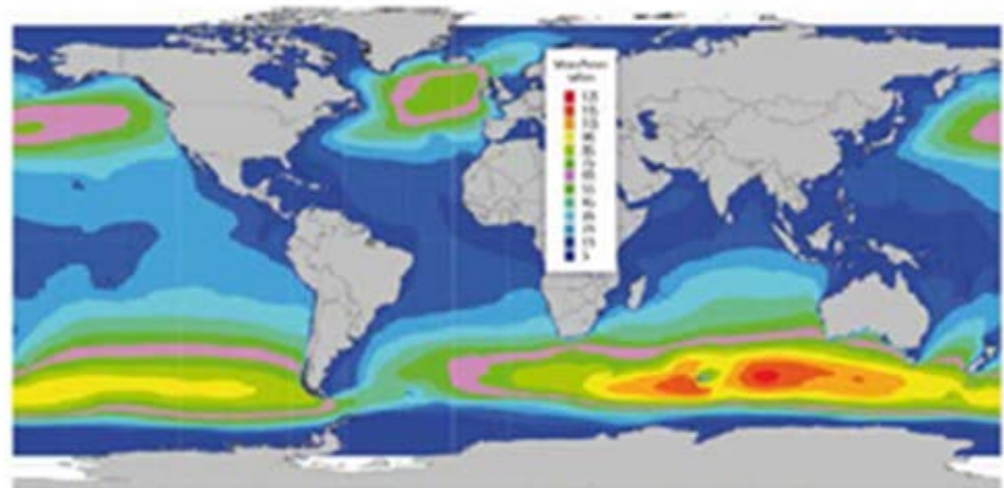


Figure 6.1 | Global offshore annual wave power level distribution (Cornett, 2008).

Thank you for your attention!

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