



**A story of the  
decarbonization of  
maritime solutions**

**ENOVA**



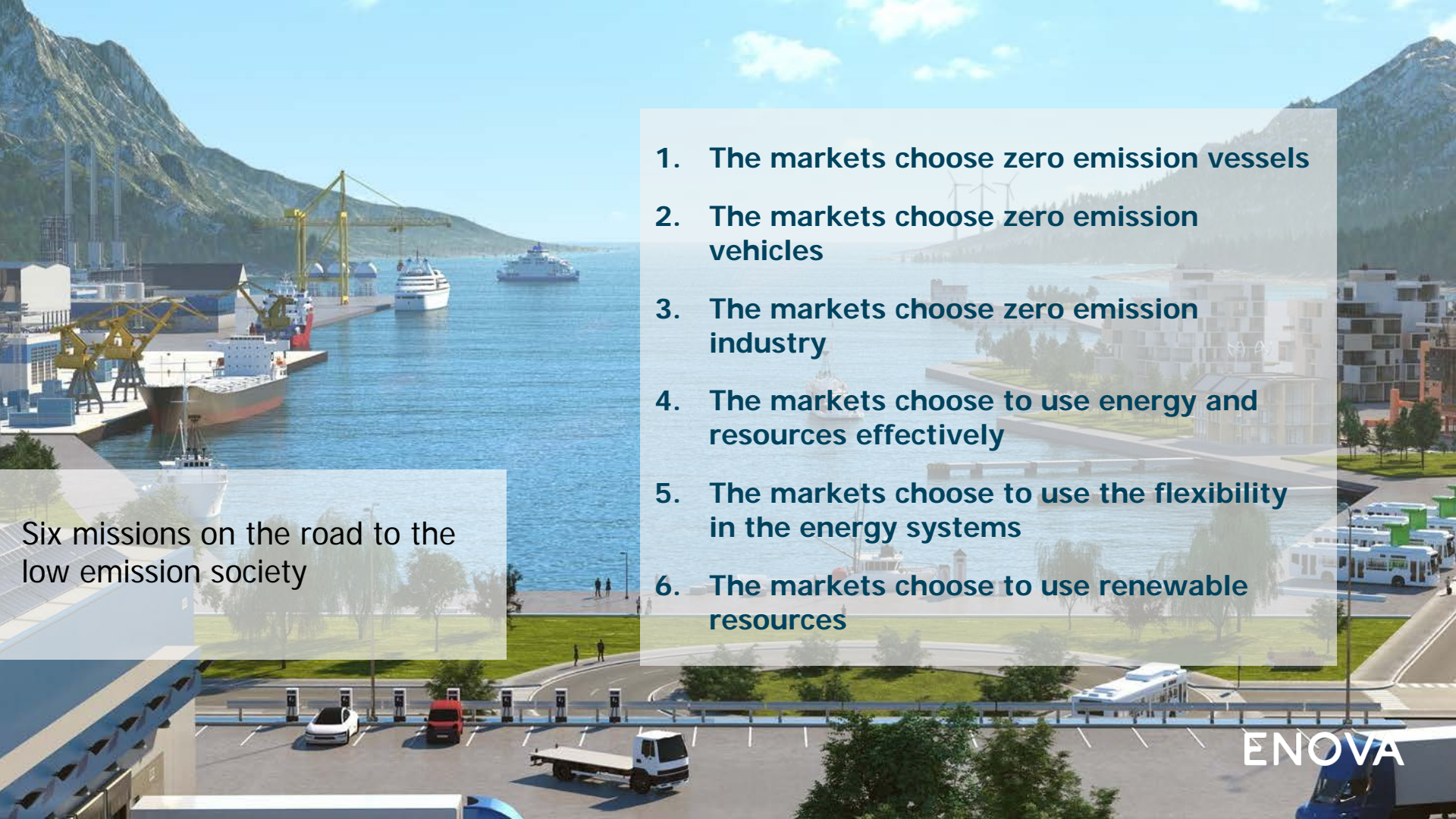
# Enova

Enova is owned by the Ministry of Climate and Environment and operates under four-year contracts.

Our current goals are to achieve

- *Reduced climate gas emissions* that contribute to fulfilling Norway's climate commitments for 2030
- *Increased innovation* in energy- and climate technologies for the transition to a low emission society
- *Strengthened security of supply* through flexible and efficient use of power and energy

Enova's activities shall target *lasting market changes*, i.e. where environmentally friendly solutions eventually are chosen without the need for state aid.



Six missions on the road to the low emission society

1. The markets choose zero emission vessels
2. The markets choose zero emission vehicles
3. The markets choose zero emission industry
4. The markets choose to use energy and resources effectively
5. The markets choose to use the flexibility in the energy systems
6. The markets choose to use renewable resources

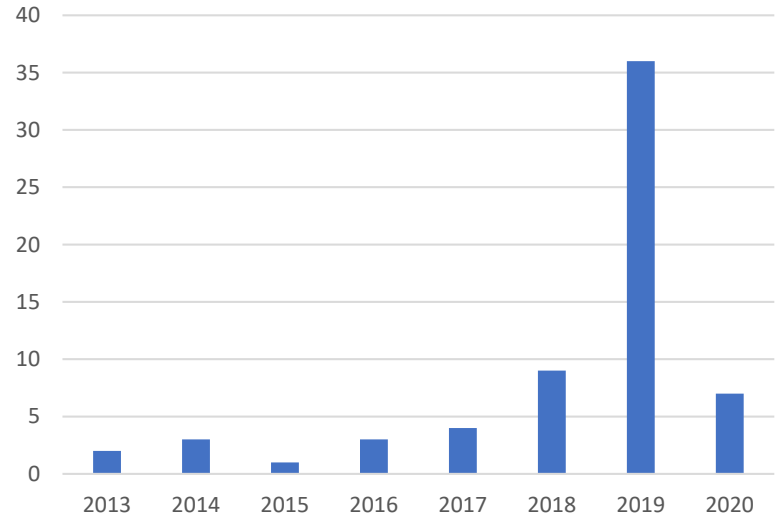


2015

ENOVA



Passenger ferries with battery in Norway



# PILOT-E

A fast-track from idea to commercial product

**PILOT-E is a collaboration between The Norwegian Research Council, Innovation Norway and Enova, targeting energy- and climate related societal challenges**

**PILOT-E is a special purpose tool for projects that:**

- Increase utilization of climate-friendly and energy efficient solutions (Enova)
- And add value to Norwegian companies (Innovation Norway)
- In projects with R&D challenges (Norwegian Research Council)

# PILOT-E

Thematic initiatives



[www.pilot-e.no](http://www.pilot-e.no)

## 2016:

- Zero-emission maritime transport

## 2018:

- Zero-emission maritime transport 2.0





**Future of the Fjords**  
Fully-electric tourist vessel

ENOVA





Hurtigruta

ENOVA



North Sea Giant

ENOVA



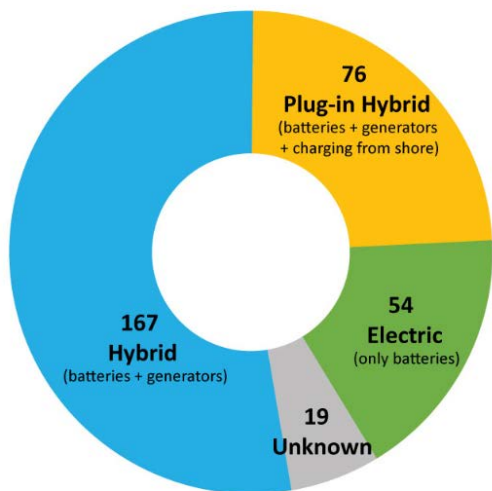
**Elfrida –**

**Worlds first plugin-hybrid service vessel in  
fish farming**

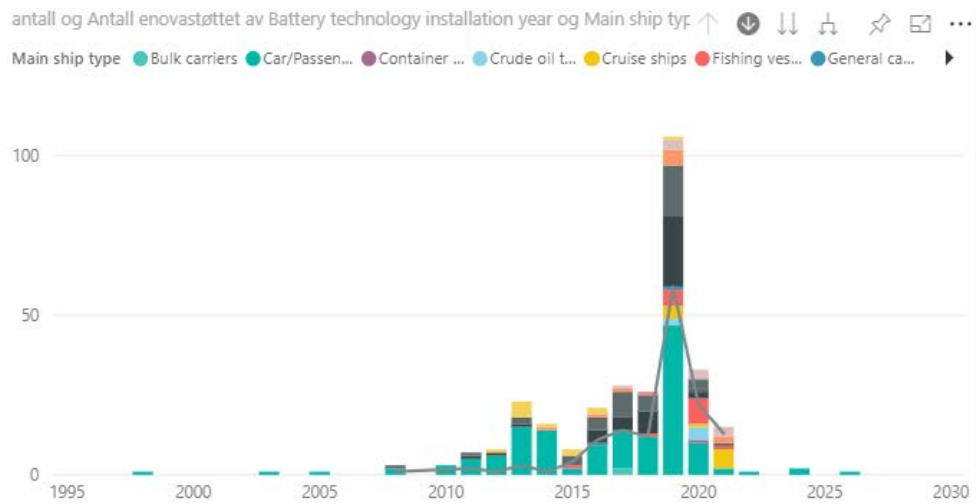
**Salmar Farming AS**

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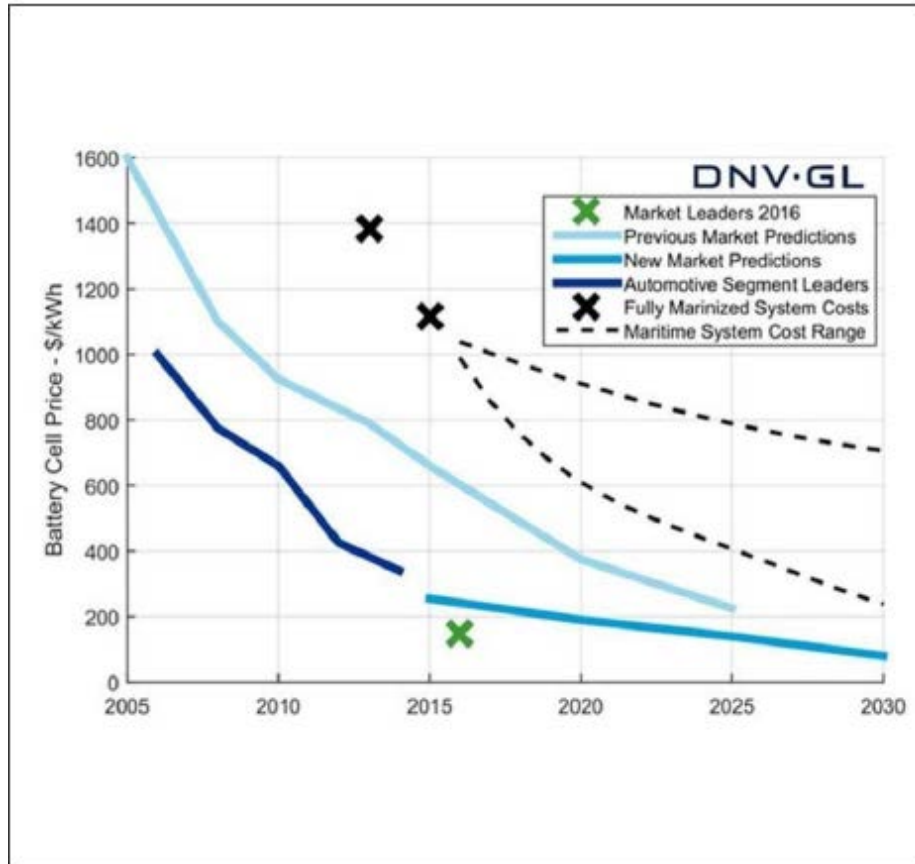
Vessels with batteries installed has reached 300 worldwide, and the curve is steep



Number of marine vessels installed with batteries as registered by the Maritime Battery Forum and in DNV GL's Alternative Fuels Insight Platform.



....and cost is going down



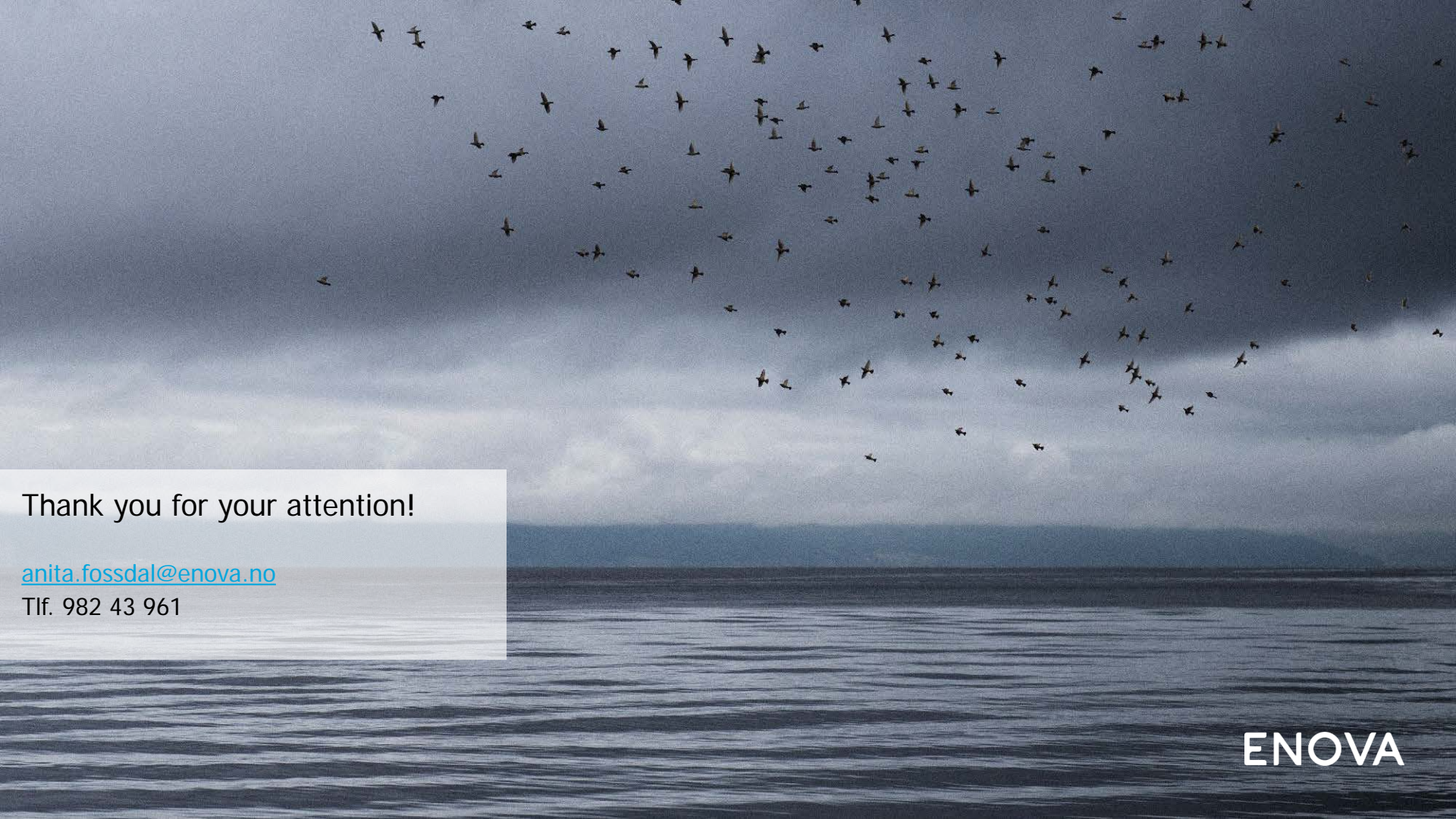
2015



2020+ ?



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Thank you for your attention!

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