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## **Council 02-2025 agenda item 7 National matters - Sweden**

### **Swedish Maritime Administration – re-directs R&D**

The Swedish Maritime Administration (SMA) re-directs its R&D, which now will focus more on development that increases efficiency and reduces costs for the agency, rather than research in the maritime field in a more general aspect. R&D development will onward have a greater focus on innovation and development of internal processes regarding port calls, fairway maintenance, icebreaking and sea charting aiming for less manual work, optimized planning and less consumption of resources both material and human. This means future R&D in the SMA will be more clearly connected the work being done by IALA and the IHO.

### **Purchase of new era pilot vessels for reduced CO<sub>2</sub> footprint**

The SMA has purchased new pilot vessels.

- a)** Electric Foiling EF-12 from Artemis, cruise speed 25knot, approx. 45Nm range
- b)** Electric transport vessel for pilot station “Sandhamn”, cruise speed 20knot, 3Nm range, 12 passengers
- c)** Four lightweight pilot vessels from Marell, with aluminium hulls, 2/3 reduction of CO<sub>2</sub> compared to conventional heavier pilot vessels



**a)**



**b)**



**c)**

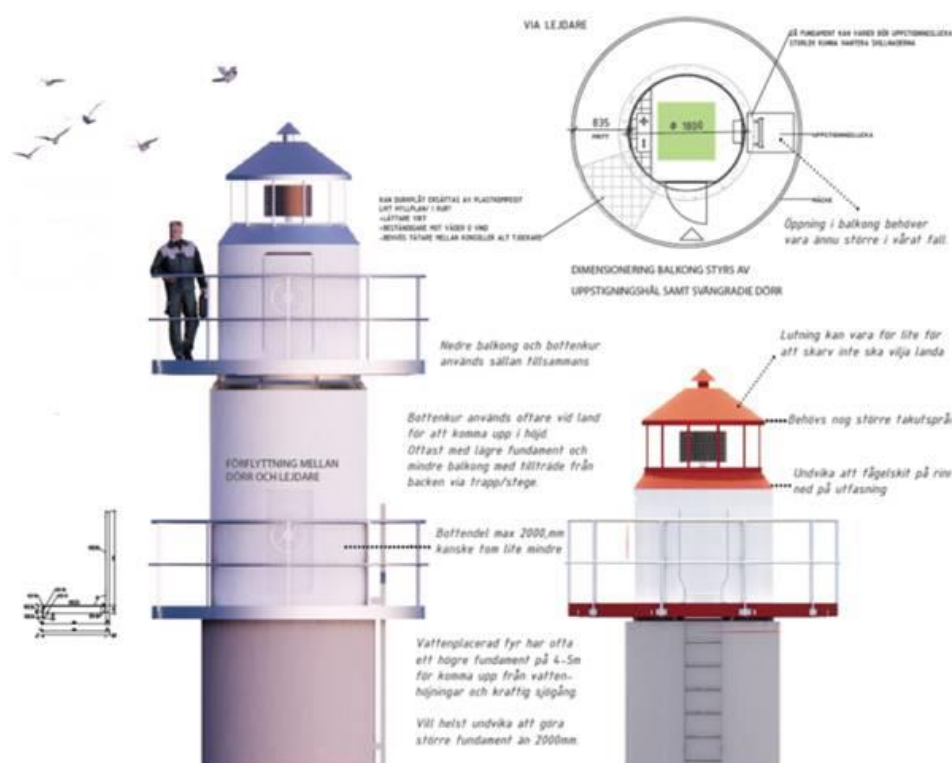
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## New Swedish standard design for lighthouses

Sweden has a program in place aiming to convert all Swedish government owned lights from incandescent light to LED until 2033, at a pace of 75 lights per year. In most cases the conversion leads to major reconstruction of the complete lighthouse also taking into account work environment challenges as well as minimizing future maintenance

The Swedish government has assigned all authorities building infrastructure to account for genuine and timeless Swedish design when constructing facilities. Since the Swedish Maritime Administration is about to reconstruct well over 500 Swedish lights a project started a year ago to develop new lighthouse design and make it a product for fairways. Visual properties, work environment and maintenance have been considered, and the project now enters into prototype making, with the aim to have the first new lights installed in 2026.



The lighthouse is modular and can be built as 3 or 6m height, and is possible to use as a top lantern on older concrete lighthouses.

## Sweden considers to cease DGPS operations by end of 2028

Satellite navigation methods have developed impressively since the introduction of GPS in the mid-nineties, selected availability has been off for over 20 years,

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making the need for differential GPS-services (DGPS) questionable and future investments required for granting the signals doubtful. Sweden for that reason starts to investigate the consequences if the Swedish DGPS-service is shut down, with the aim to cease the services at the end of 2028. The intention is to keep transmitting infrastructure and permits for radio frequencies for future use in emerging technologies.