

Vision: Climate compatible and sustainable cruises in 2050

Requirements for the transition of an industry

The objective of all efforts by the cruise industry must be to establish a business model that is in line with the Paris climate targets and the Sustainable Development Goals (SDGs). The decisive factor here is the switch to emission-free technologies by the year 2050 at the latest. By doing this the innovative ability of the cruise companies can set the tone and pace for the entire shipping industry.

The goals can be achieved through

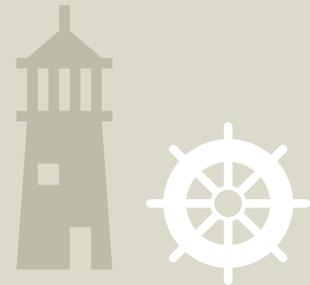
- The switch to ship propulsion systems that enable emission-free operation
- The use of 100% renewable fuels on all ships
- Battery hybrid systems and wind support as they help to significantly reduce fuel consumption while driving. These technologies must be used wherever possible, on new ships and the existing fleet needs to be retrofitted.
- Highest efficiency standards in both ship and hotel operations to enable the highest energy efficiency possible
- The use of renewably generated shore power for every ship in every port, because there are no conversion losses with the direct use of electricity (highest efficiency in relation to primary energy use)
- Offsetting and the large scale use of any kind of biofuel are no suitable measures to reduce CO₂ emissions sustainably

NABU demands

NABU demands that companies in the cruise industry make a clear commitment to the Paris' climate goals. As a result, all cruise lines will have to operate completely climate-neutrally in 2050. For this it is necessary to develop a clear climate strategy with milestones, reduction targets and suitable measures up to 2050 for every company (in absolute numbers / not per person / night) and to start implementing it.

The measures specified therein must also include the existing fleet and include, for example, retrofitting with efficiency technologies for the entire fleet or, if necessary, the scrapping of old, inefficient ships. At the same time, air pollutant emissions with their negative effects on people and nature must be minimized. Most technologies reduce both greenhouse gas and air pollutant emissions. The overall goal is therefore emission-free shipping.

In order to be able to operate the entire fleet of the cruise lines emission-free by 2050, NABU proposes the following schedule.



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NABU cruise roadmap

Requirements for an emission-free cruise sector



Short-term, immediately implementable measures until 2023

1. Clear commitment to the **Paris climate goals**
e.g. Drop-in of renewable fuels, fuel cells, battery hybrid, wind support
2. Development of a **climate roadmap** for each shipping company with clear milestones, reduction targets and measures to be implemented by 2050
3. Implementation of **efficiency measures** in ship and hotel operations (propellers, hull coating, etc.)
4. **First measures** on individual ships paving the way to **emission-free shipping**
5. Use of shore power wherever possible. All ships in the fleet are equipped or retrofitted with **shore power connections**
6. Immediate **stop** of the use of **heavy fuel oil** (incl. VLSFO)
7. Unrestricted use of **nitrogen oxide catalysts**
8. Unrestricted use of **soot particle filters**

Mid-term measures to be implemented by 2030

1. **First**, completely emission-free ships in the fleet
2. **New buildings** only with zero emissions standard
3. **Retrofitting the first ships** in the existing fleet with zero-emission technologies
4. Review and, if necessary, **adjustment of the climate strategy** with clear milestones, reduction targets and measures to be implemented by 2050

Long-term measures to be implemented by 2050

1. Roll-out of the chosen **zero-emission technology** for the entire fleet
2. Completely emission-free operation of the **entire fleet** by 2050 at the latest
3. Climate strategy implemented – all business areas are **100% emission-free!**

