

# Roadmap: Climate- and environmentally friendly cruise

## Requirements for an industry in transition

The aim of all efforts by the cruise industry must be to establish a business model that is in line with the Paris climate goals and the SDGs. The decisive factor for this is the switch to climate-neutral drive technologies by 2040 at the latest. At the same time, the innovative capacity of the providers can become the impulse and pacesetter of the entire ocean-going shipping.

### These goals can be achieved by

- Switching to drives that enable climate-neutral operation
- The use of 100% regenerative fuels on all ships
- Battery hybrid systems as well as wind support help to significantly reduce fuel consumption while driving. These technologies must be used on all ships (also by retrofitting the existing fleet!)
- Highest efficiency standards in both ship and hotel operations to enable maximum energy efficiency
- The use of regeneratively generated shore power in the port, as there are no conversion losses during direct electricity use (highest efficiency in terms of primary energy use)
- Offsetting and the use of all types of biofuels on a large scale are not suitable measures to sustainably reduce CO<sub>2</sub> emissions!

### NABU demands

NABU calls on companies in the cruise industry to make a clear commitment to the Paris climate goals. Companies must develop a clear climate strategy with milestones, mitigation targets and appropriate measures for complete climate neutrality and implement it immediately.

The measures laid down therein must also include the stock and, for example, provide for retrofitting the entire fleet with efficiency technologies. At the same time, air pollutant emissions with their negative effects on humans and nature must be minimized. Most technologies reduce both greenhouse gases and air pollutant emissions. The goal is emission-free shipping.

### Schedule

To be able to operate the entire fleet of cruise lines emission-free by 2040, NABU proposes the following schedule.



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# NABU cruise roadmap

## Requirements for an climate-neutral cruise sector



### Short-term, immediately implementable measures until 2023

1. Immediate **stop** of the use of **heavy fuel oil and heavy fuel oil blends**
2. Clear commitment to the **Paris climate goals**
3. Presentation of a **climate roadmap** with clear milestones, mitigation targets and measures up to 2040
4. All **newly build vessels** must be geared towards **climate-neutral** operation
5. **Efficiency measures** for ship and hotel operations
6. **Initial measures** on individual ships that pave the way to emission-free shipping, e.g.
  - Drop-in of RFNBOs<sup>1</sup>
  - Fuel cells
  - Battery Hybrid
  - Wind assistance
7. **Shore power connections** and upgrading of the on-board electrical system on all ships, use of shore power wherever possible
8. permanent use of **nitrogen oxide catalysts** and **soot particle filters**

### Mid-term measures to be implemented by 2030

1. **First** completely **climate-neutral operated ships** in the fleet
2. **New buildings** only **climate-neutral**
3. Conversion of the **first ships** in the existing fleet to **climate-neutral** operation
4. **Review** and, if necessary, adaptation of the **climate strategy**

### Long-term measures to be implemented by 2040

1. **Roll-out** of the selected **climate-neutral technologies** to the entire fleet
2. Completely **climate-neutral operation** of the entire fleet from 2040
3. **Climate strategy implemented** – all business areas are 100% climate-neutral!

