

Dutch Sustainable Aviation policy

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Overview

- CO₂-ceiling
- SAF
- Innovation: Aviation in Transition programme

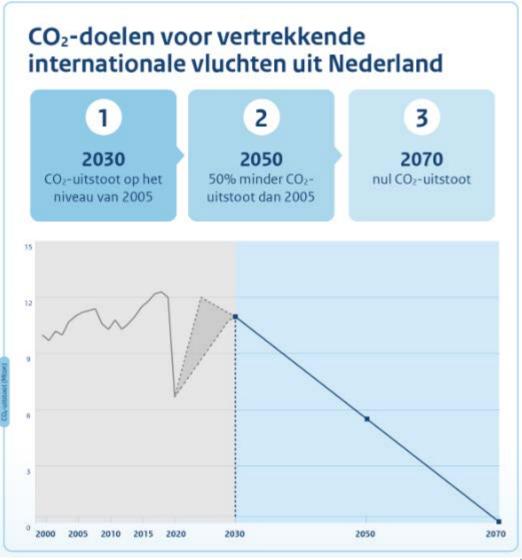


Political context

- Sustainable Aviation Agreement (2018)
- Aviation Policy Memorandum (2020)
- Coalition Agreement (2022)
- > The National Growth Fund



CO₂-ceiling





SAF Policy

- Sustainable Aviation Agreement (2018)
- > Public private cooperation with stakeholders
- Opt-in for aviation in implementation of REDII
- SAF goals:
 - 14% SAF in 2030
 - 100% sustainable in 2050
- Context ReFUEL



SAF policy

- NL is one of the ambassadors of the Clean Skies for Tomorrow SAF policy toolkit
- NL will join ACT SAF and made a financial contribution of 500.000 to the environmental fund of ICAO to support capacity building and setting up projects to advance the use of SAF globally
- NL will also host the EUR/NAT regional seminar on SAF on 13 and 14 april in Rotterdam
- SAF is of major importance in reaching the Long Term Aspirational Goals of Net-Zero in 2050!



Aviation in Transition (LiT)

Goals

- Achieving a climate neutral aviation sector by 2050
- Accelerating the development of sustainable technology
- Structural increase of earning capacity of participating organisations

How we do this?

- Financial contribution from Dutch National Growth Fund (NGF)
 - EUR 383 million
- Financial matching by Aviation sector
- Aviation in Transition programme



Programme overview and structure

- Multi-year programme (2023-2030)
- 3 programme lines:
 - Sustainable Technology
 - Sustainable Knowledge
 - Sustainable Ecosystems
- 13 projects
- Cooperation between 60+ organisations
- 3 demonstrator aircrafts



Sustainable Technology



Hydrogen combustion

- Consortium NAC with Rolls- Royce
- Fokker 100 demonstrator platform retrofit



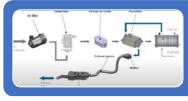
Hydrogen Fuel Cell Electric

- Consortium HAPSS with DASH-8-300 retrofit
- Consortium Embraer demonstrator aircraft with High Temperature Fuel Cell



Materials, Production Technology and Structures

- Consortium GKN Fokker small, medium & large light weight structuretechnologies
- Design & manufacturing technologies for factory of the future (thermoplastics)

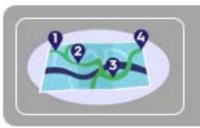


Electrical & Thermal Systems

- Consortium GKN Fokker Electrical High Power and Data Distribution and Methods
- Consortium Aeronamic for thermal and pneumatic systems



Sustainable Knowledge



Flying Vision

- . Consortium TU Delft & partners
- Towards an ecosystem-wide vision and roadmap for the research and development of innovations for climate-neutral aviation



Promising research

- . Cooperation NLR and TU Delft
- •Technology research for > 2030 Open calls



Dutch Aviation Systems Analysis Lab DASAL

- . Cooperation NLR & partners
- · 'digital twin' of the aviation ecosystem



Sustainable Ecosystem



Strengthening Ecosystem

- Open calls
- Through resources for SMEs for open innovation, outside the fixed consortia and supporting companies with valorisation



International cooperation

- Aviation in Transition
- Improving access to the international market by connecting research organizations & companies to the international value chain and European programs maximizing social and economic impact.



Human Capital Agenda

- Consortium CVBLO
- Providing sufficient and adequate trained staff with the focus on technology, sustainability and innovation.