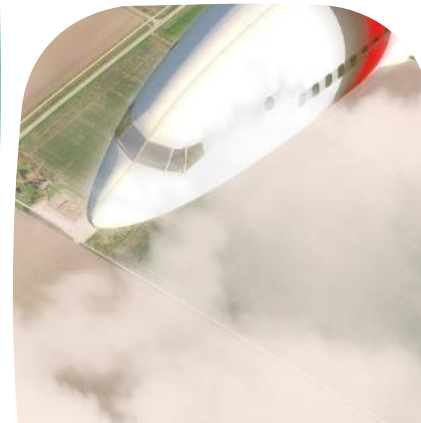




Lelystad Airport



## NAG Event – Airport Development

Sander Mulder

6 Februari 2025

- 
- ↳ Historie Lelystad Airport
  - ↳ Politiek & besluitvorming
  - ↳ Luchthaven in transitie
  - ↳ Airport Strategy & Planning
  - ↳ Rondleiding
  - ↳ Borrel

# Historie Lelystad Airport



••••• **Ontstaan Lelystad Airport**



••••• **Twin-airport van Schiphol**



# Politiek & besluitvorming

## Alders akkoord 2008

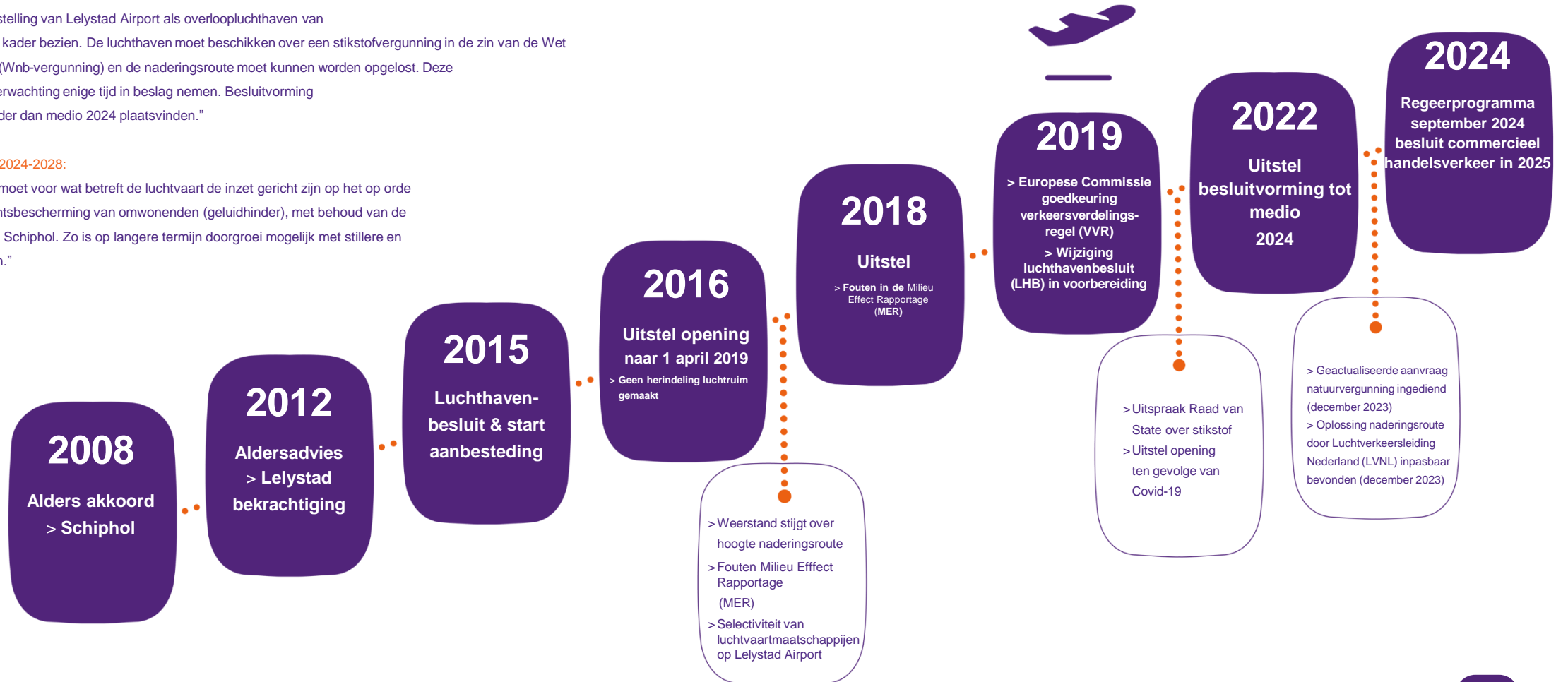
Alders akkoord uit 2008 is door alle kabinetten tot nu toe onderschreven. Huidige hoofdlijnenakkoord zegt hier niet expliciet iets over.

## Brief 24 juni 2022:

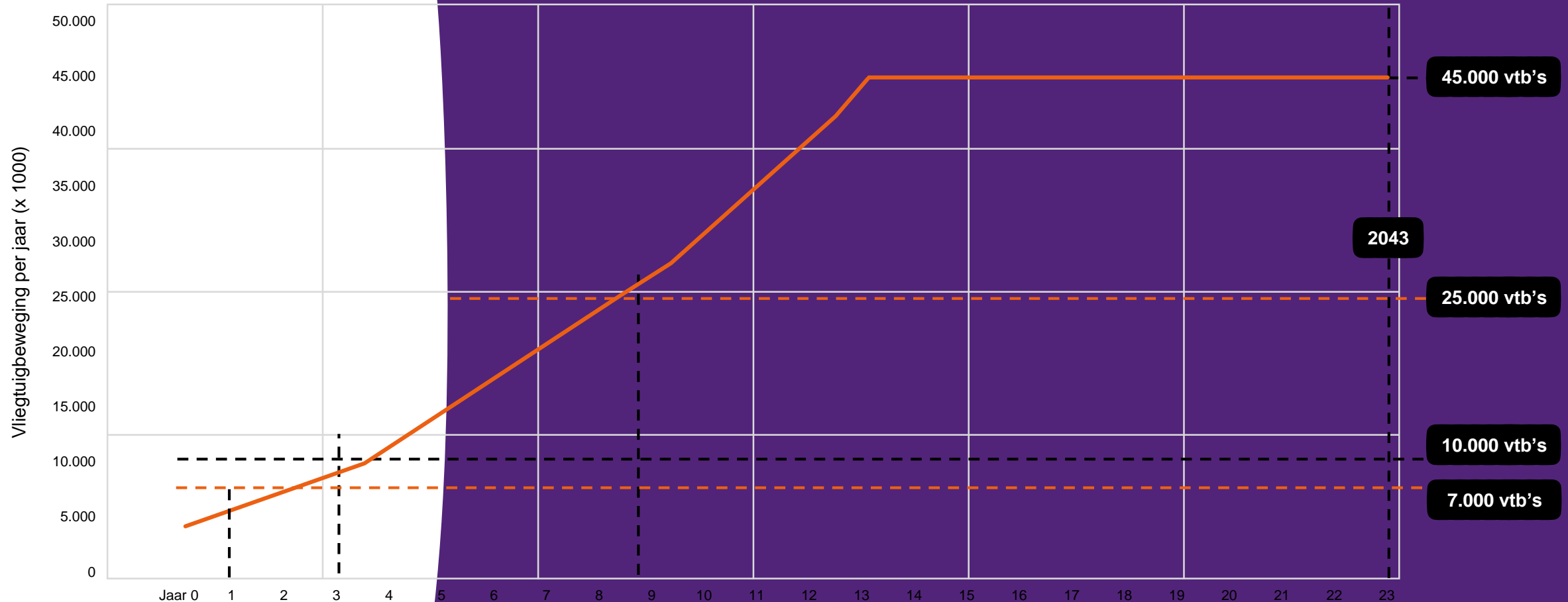
"De eventuele openstelling van Lelystad Airport als overloopvluchthaven van Schiphol wordt in dit kader gezien. De vluchthaven moet beschikken over een stikstofvergunning in de zin van de Wet natuurbescherming (Wnb-vergunning) en de naderingsroute moet kunnen worden opgelost. Deze zaken zullen naar verwachting enige tijd in beslag nemen. Besluitvorming kan daarom niet eerder dan medio 2024 plaatsvinden."

## Hoofdlijnenakkoord 2024-2028:

"De komende jaren moet voor wat betreft de luchtvaart de inzet gericht zijn op het op orde brengen van de rechtsbescherming van omwonenden (geluidhinder), met behoud van de netwerkqualiteit van Schiphol. Zo is op langere termijn doorgroei mogelijk met stillere en schonere vliegtuigen."



# Gefaseerde ontw



Gem. vluchten/dag: 10 14



# Huidige business

aantal vliegtuigbewegingen



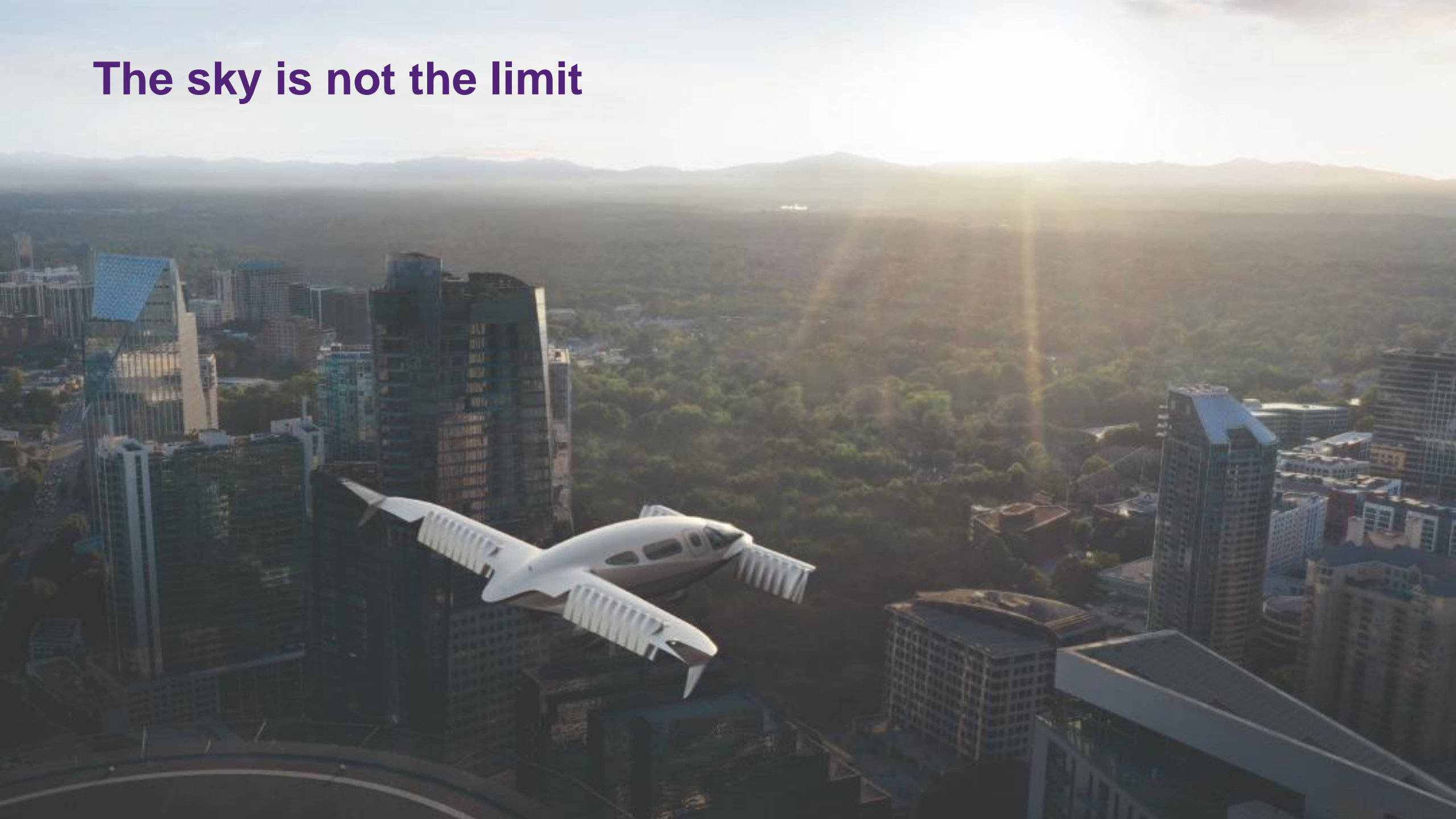
- 10.000 20.000 30.000 40.000 50.000 60.000 70.000 80.000



# Luchthaven in transitie



**The sky is not the limit**







# Electrifying aviation

## Aircraft size



eGA

2025 - 2027

eRAM 9- to 19 seaters



eBA

2027 - 2030

eVTOL integration



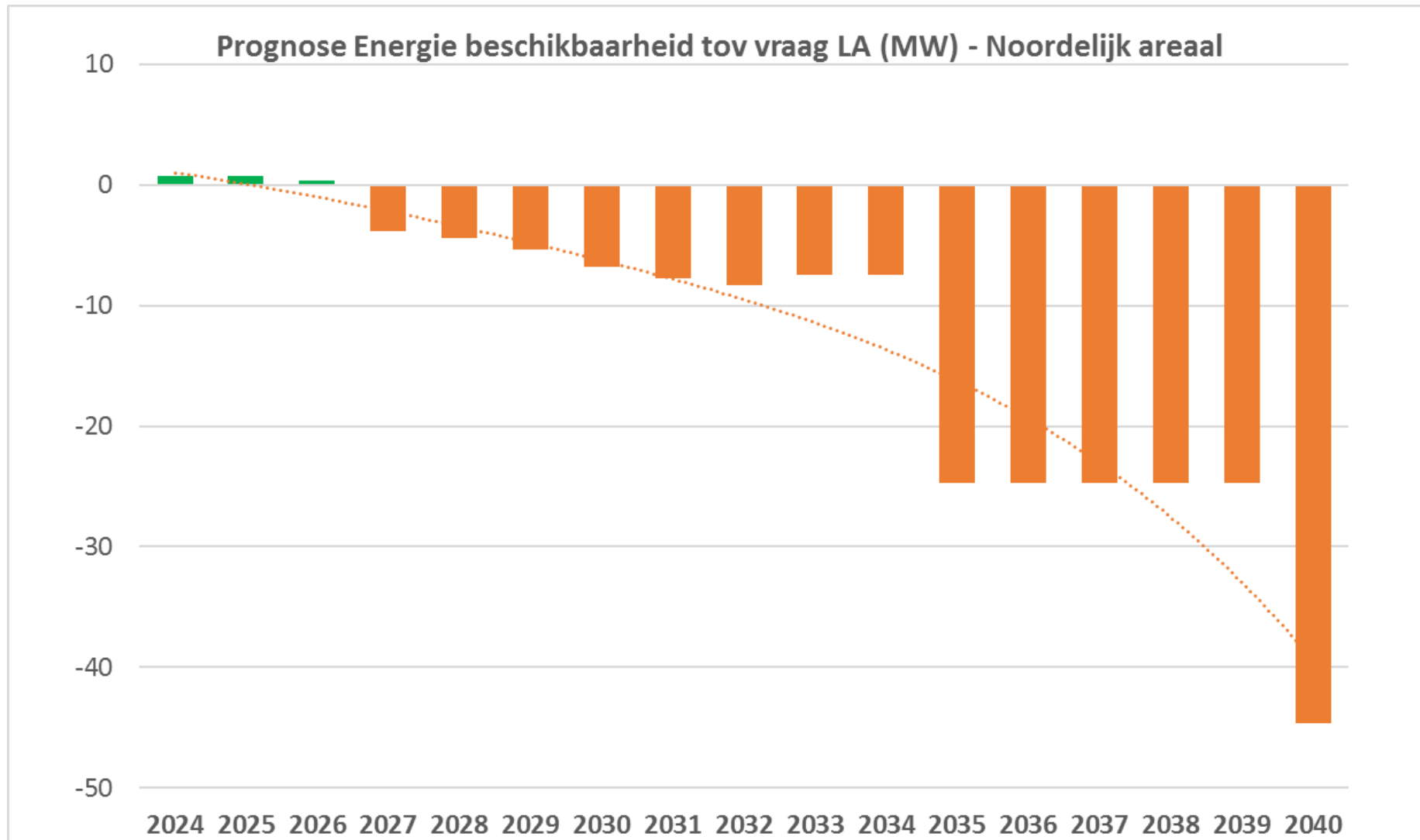
eCA

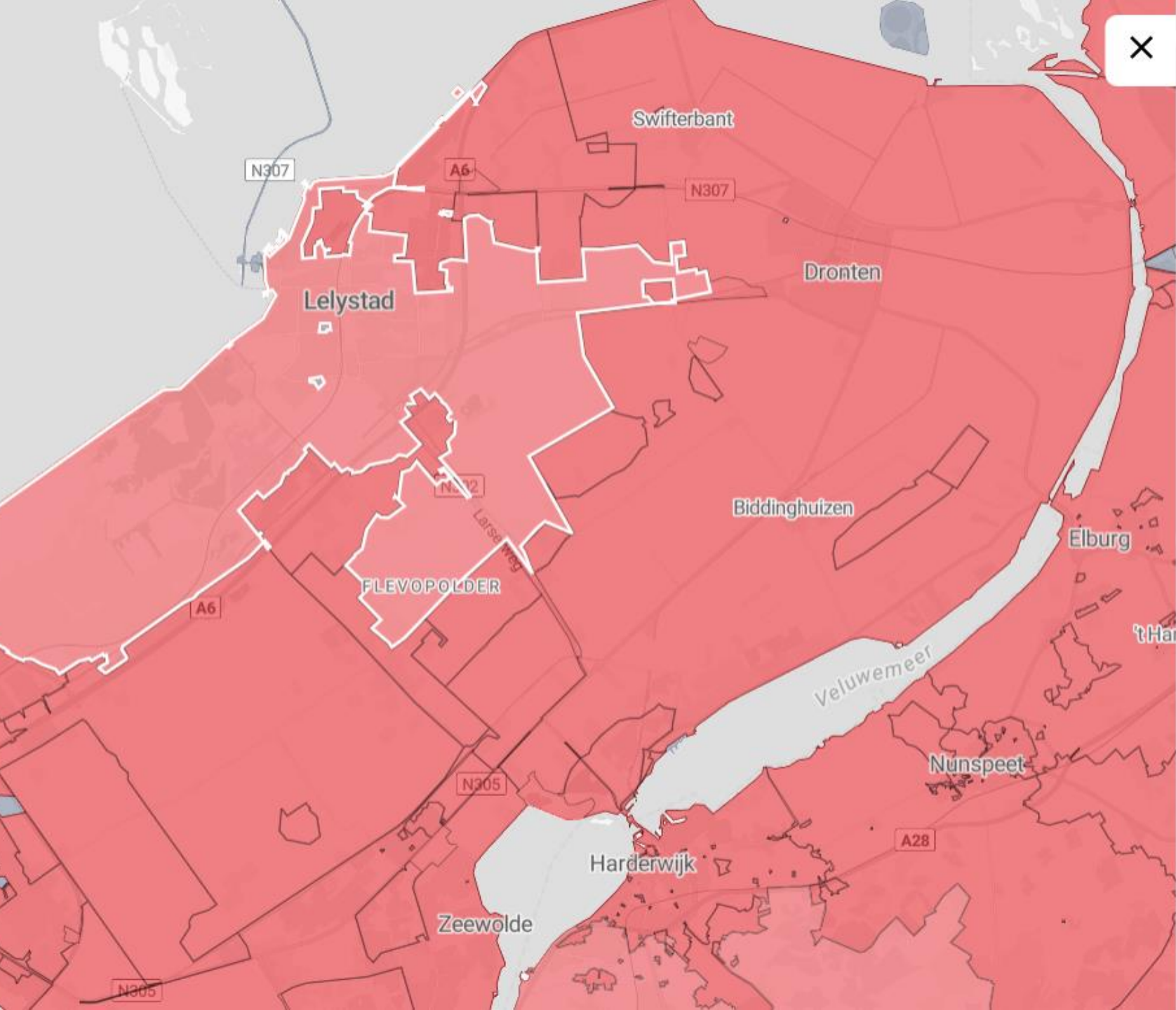
2032 +

Large eCTOLs integration  
50- to 80 seaters



# Benodigde capaciteit LEY groeit snel





Voedingsgebied

### OS ZUIDERVELD 10-1i

#### Aanwezige transportcapaciteit

afname	teruglevering
69.3 MW	69.3 MW

#### Benodigde transportcapaciteit

afname	teruglevering
82.2 MW	66.8 MW

#### Unieke verzoeken in een wachtrij

afname	teruglevering
90	58

#### Wachtrij in vermogen

afname	teruglevering
32.8 MW	36.6 MW

# Renewable energy generation Flevoland

## Zonnestroom

MJ/inwoner

**7.326**

Flevoland

**4.034**

Nederland

Bron: Berekening aandeel per inwoner | 2023



## Wind op land hern. elektriciteit

MJ/inwoner

**32.729**

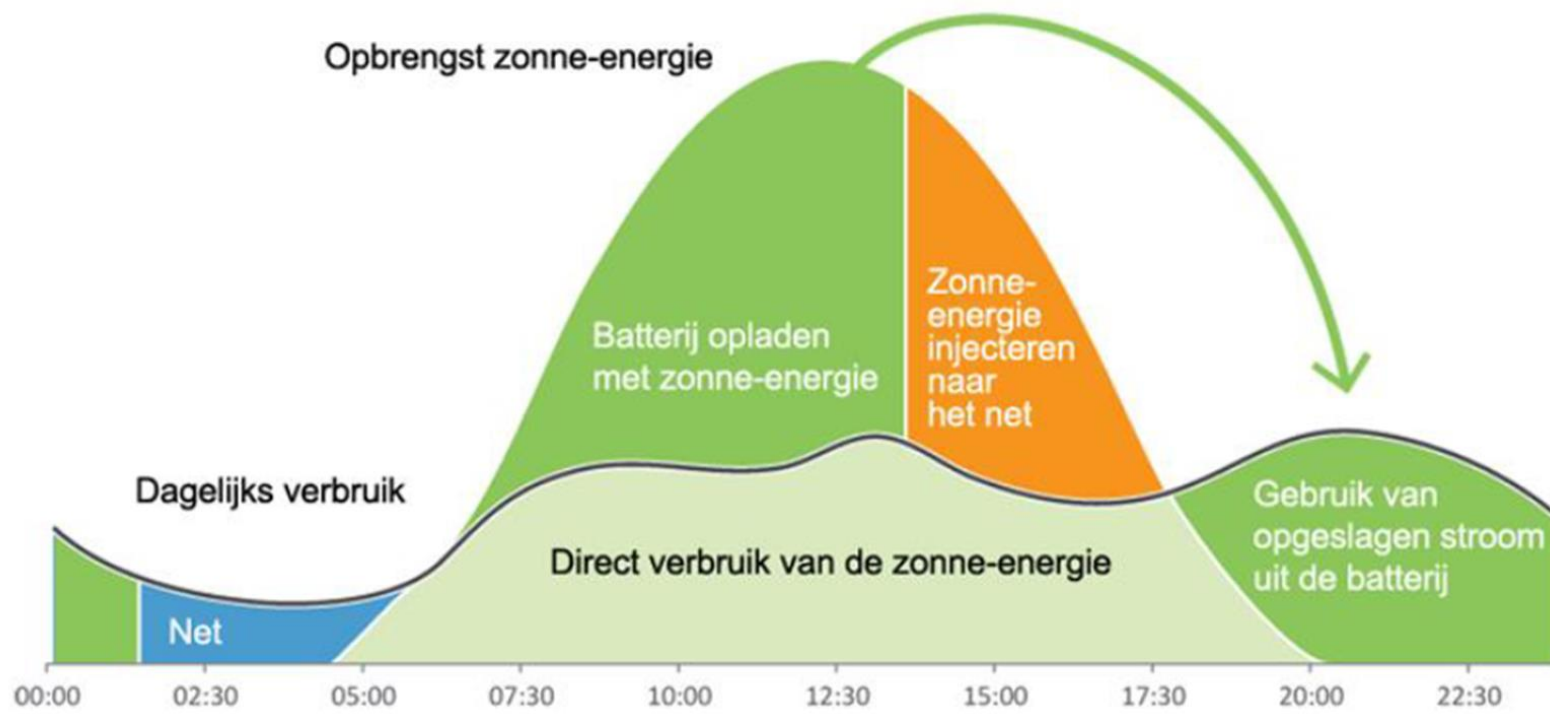
Flevoland

**3.181**

Nederland

Bron: Berekening aandeel per inwoner | 2023





# Lelystad Airport Sustainability & Innovation strategy

Lelystad Airport is the largest general aviation airport in The Netherlands. It facilitates over 80.000 flight movements per year. The majority is executed by local flight schools. We believe that electric aviation will soon be adopted by the user group, allowing for gradual infrastructural transition to support this development.

Lelystad Airport is part of the Royal Schiphol Group and collaborating with Provincial government, Municipality Lelystad and regional development agency to develop a sustainable and future proof airport environment. The aim is to meet infrastructure requirements for small scale hybrid/electric aircraft developments while preparing to accommodate sustainable flying by commercial airlines in the future.

To accelerate the evolution of sustainable aviation we coordinate and synchronize innovation projects through an Innovation ecosystem (in development). The aim is to accelerate innovative developments by synchronizing knowledge from a triple helix in the areas of education, High-tech industry and knowledge centers near Lelystad Airport & adjacent Business park.

Sustainable flying starts small, within a network of airports that support such operations. As the largest General Aviation airport in the Netherlands, Lelystad Airport will become a central location that facilitates these innovations.

**"The vision for Lelystad Airport is to create an E-mobility hub that supports various forms of sustainable mobility from a central location in the Netherlands."**



# Sustainability & Innovation @ Lelystad Airport / Businesspark

## Lelystad Innovation Airport

- Developed by:
  - Provincial Govt,
  - Municipality Lelystad
  - Lelystad Airport
- We coordinate and synchronize projects through the innovation ecosystem
- Focus on main theme's:
  - Sustainable aviation, including eVTOLs
  - Sustainable fuels incl. electric charging.
  - Digitalization / Twin

## Electric flying @ Lelystad Airport

- Two fully operational 180KW DC chargers
- Test and development in collaboration with ROC Field lab.
- Electric charging network with Teuge Airport (to be expanded to other airports)

## Local Innovation ecosystem

- NLR: Netherlands Aerospace centre
- Mobility & Infrastructure test centre
- Schiphol innovation orchestrator NLMTD
- EFC: Electric Flying Connection
- Power Up
- NAG: Neth. Aviation Group

## Energy Availability

- Developing a local energy community at Airport Business park
- Utilizing solar- and wind energy from nearby sources:
  - Roof top solar power from logistic warehouses at Airport Businesspark
  - Local wind farms
- Energy buffering through areal battery storage facility

## Education Airport

- Integrating educational development at all levels of education:
  - Technical University
  - University of applied science
  - Vocational technical education
- Airport Field Lab by ROC to educate future aviation mechanics by means of case studies





# Lelystad Innovation Airport – Main focus area's

Sustainable aviation,  
including eVTOLs

Battery Electric flying by flight schools

Battery Electric or Hybrid operation by eVTOLs & BA aircraft

Education, MRO & Electric aircraft retrofitting

Sustainable fuels  
incl. electric charging

Charging facilities, MW charging

Modular SAF (eFuel) Production & H2 storage

Smart Charging infrastructure (Maxem platform integration SPL)

Digitalization incl.  
Digital Twin & Robotics

Smart Energy hub @ Lelystad Airport & Business park

Mobile energy Solutions

Green energy generation in Energy Community

Baggage Innovation Test center @ Lelystad



*If we all worked on the assumption that what is accepted as true is really true, there would be little hope of advance*

**Orville Wright**

***Would you be using an (Electric) Urban Air Mobility Vehicle in 5 years time?***

***Why / why not?***





**Lelystad Airport**

Een nieuw vertrekpunt

**Thank you**

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