

The (electric) airport of the future



Henrik Littorin
Senior Analyst
henrik.littorin@swedavia.se
+46 734 331998

Swedavias role

- Energy capacity at the airports
- Charging infrastructure and charging solutions
- Coordinate with ground transportation
- Airspace close to the airports
- Passenger process
- Environmental permits
- Use airports as test arenas

Strategic direction

- Key role in the development of electric flights
- Possible to land, take off, charge and overhaul electric aircrafts at the airports
- Active part regarding electric aviation and airport infrastructure
- Not start own projects but be part of ELISE, Green Flyway, NEA and Kvarkenrådet

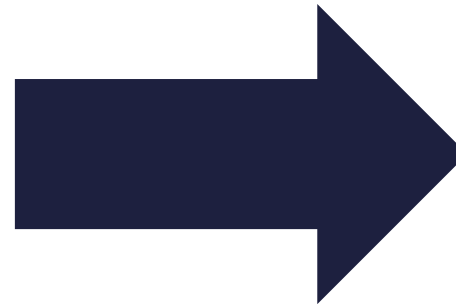
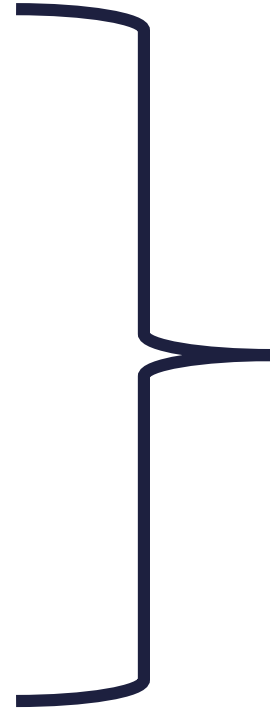
A mix of energy sources

Jet A-1

Biojet

Electricity

Hydrogen

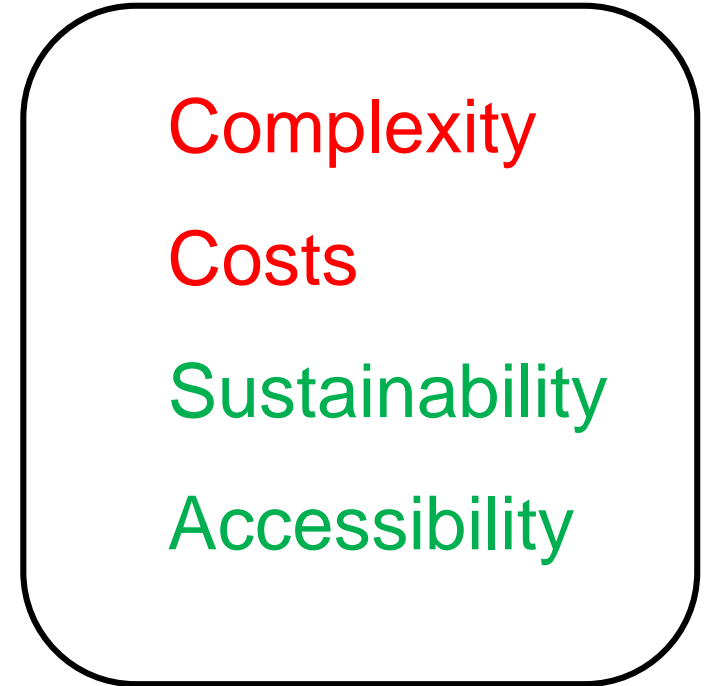


Complexity

Costs

Sustainability

Accessibility



And a mix of aircrafts

Adding something of an infrastructure challenge...



We will see

- Smart grids
- New business models
- New airlines
- New routes
- New ways to transfer to and from the airport



Energy storage

- Expensive
- Large
- Heavy
- Only profitable if it decreases the investment to the same degree or if there are no alternatives



Summary 1-10 MW

0,5-1 MW

- Within one year
- Very approximately: 3 MSEK + chargers

1-5 MW

- 1-3 years of forward planning

5-10 MW

- 2-5 years of forward planning
- Considerable investments (also outside the airport)

