



# Electric Propulsion Projects

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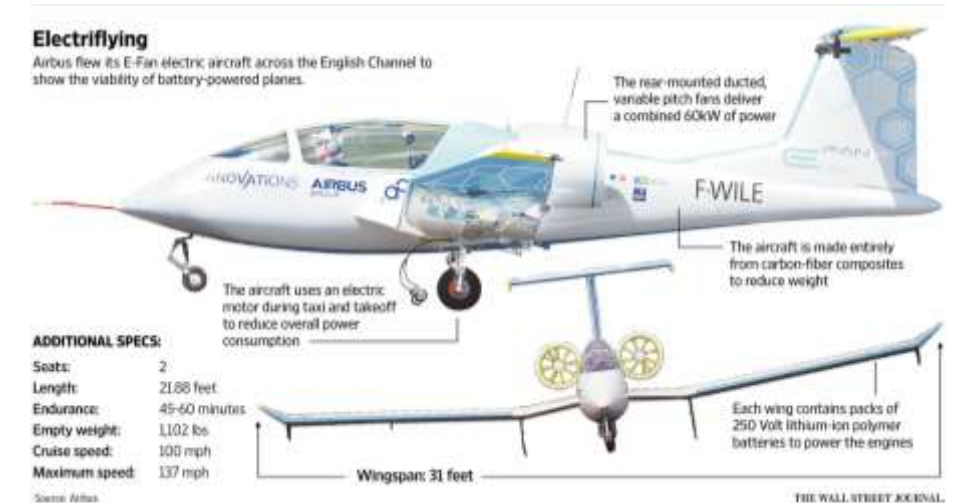
**AIRBUS**

# E-Fan

**AIRBUS**



- First flight in April 2014
- Demonstrated at 2014 Farnborough Airshow
- Crossed the English Channel on 9 July 2015



# Vahana

AIRBUS

- First flight January 2018
- Over 100 flights to date
- Exhibited at 2019 Paris Airshow and EAA Airventure
- Vertical take-off tilt wing
- Single passenger, fully automated, all electric





# City Airbus

**AIRBUS**



- First flight in May 2019
- Seats four
- Optionally piloted
- Eight 100kW electric motors

A multi-passenger, self-piloted electric vertical takeoff and landing (VTOL) demonstrator designed for urban air mobility with cost efficiency, high-volume production and a low environmental footprint in mind.

#### AUTONOMY

15 minutes

#### ENGINES

- 8 fixed pitch propellers powered by electric drive engines
- 8 x 100 kW separating power electric motors

#### SIZE

Compact size for ideal integration into urban landscapes

#### BATTERIES

- 240 kWh power x 4 batteries
- 110 kWh energy in all 4 batteries

Quietest high lift propeller units designed for efficiency, low acoustic footprint and safety

#### CAPACITY

Transports up to 4 passengers

Aerobics and autopilot built for optimized urban air traffic management

#### CRUISE SPEED

130 km/h

# Air Race E

AIRBUS

- Flown to Formula One rules
  - 5 laps, 5km course
  - 8 aircraft per heat
- All electric aircraft
- First races planned for 2020
- Host cities worldwide

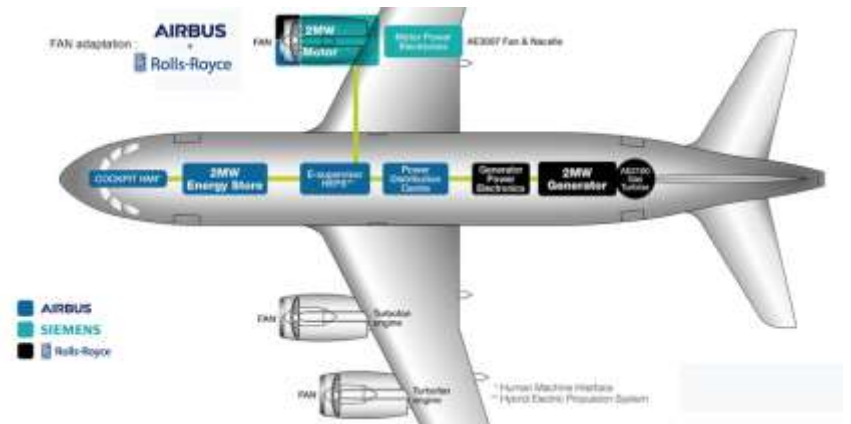


# E-FanX

AIRBUS



- Hybrid Electric testbed
  - 2 MW electric motor
  - 2.5 MW turbine generator
  - 2 MW battery
  - 3kV AC/DC distribution system
- First flight 2021





# Future

**AIRBUS**



Thank you