Sustainable aviation

We are innovating sustainable technologies in support of the air transport industry's commitment to reach net-zero CO₂ emissions by 2050.

**Engine efficiency**
Continuously striving to improve our current line of engines to deliver maximum performance and efficiency
- Enhancing GTF architecture
- High-temperature materials
- Reducing propulsion system weight

**Hydrogen propulsion concepts**
Developing advanced concepts for hydrogen-burning aircraft engines and hydrogen fuel cell electric propulsion, as well as hydrogen storage and distribution systems
- Fuel cells
- Engine
- Hydrogen storage
- Distribution
- Sensing

**Lighter-weight, energy-efficient systems**
Ensuring our components and systems are designed to be the lightest, most energy-efficient and safest products made
- High-density power conversion
- Nacelles
- More electric systems
- Environmental controls
- Landing gear systems
- Interiors

**Route and operations optimization**
Providing digital solutions to enable more predictable and fuel-efficient operations across the aviation ecosystem
- Aircraft data management and connectivity
- Ground systems
- Air traffic management technologies
- Integrated avionics systems
- Weather sensing and processing

**Hybrid electric propulsion**
Optimally pairing aircraft engines with electric motors, battery systems and controls
- High-density machines
- Power distribution and safety
- Energy management

**Sustainable aviation fuels**
Supporting "drop in" sustainable aviation fuel with 100% SAF-ready fuel propulsion system components
- Fuel controls
- Pumps
- Engines