

Surveillance

Ultra light fixed-wing drone with electric engine



1 kg CO2

Ultra-light rotary-wing drone with piston engine



82 kg CO2

Very light aircraft with piston engine



84 kg CO2

Very light helicopter with piston engine

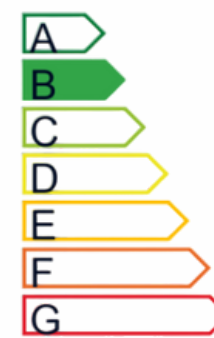
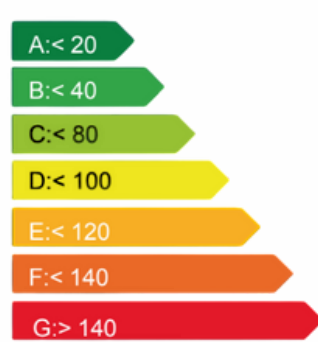


327 kg CO2

Light helicopter with single turbine



1217 kg CO2



In kg of CO2 / flight hour

CO2 emissions multiplied by 1000

Under equal flight conditions * :



3H



1000 ft



Low speed



3 kg payload



* Each aircraft is capable of carrying the necessary sensors and performing the expected trajectories to record the data with the required accuracy.

Freight transportation

Mission:  **300 km range**  **Payload: 1 ton or 6 tons**

Very light, soft wing drone with single piston engine



Twin turbine medium-sized aircraft



Twin-turbine heavy aircraft



Single turbine light helicopter



Twin turbine heavy helicopter



2072 kg CO₂ / 16 shifts

2604 kg CO₂ / 3 shifts

3019 kg CO₂ / 1 shift

6500 kg CO₂ / 10 shifts

7266 kg CO₂ / 2 shifts

CO₂ emissions multiplied by 3



388 kg CO₂ / 3 shifts

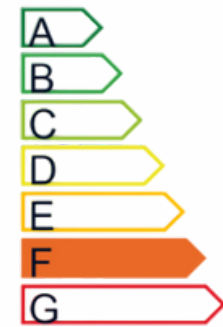
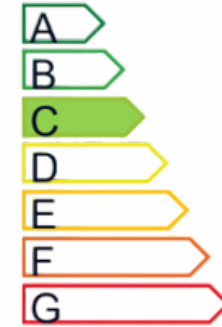
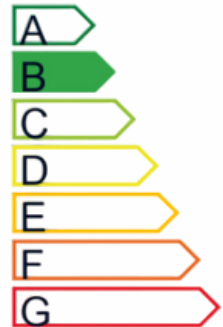
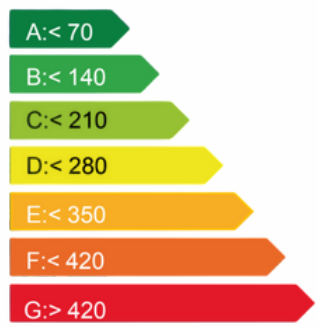
868 kg CO₂ / 1 shift

3019 kg CO₂ / 1 shift

1300 kg CO₂ / 2 shifts

3633 kg CO₂ / 1 shift

CO₂ emissions multiplied by 10



In kg of CO₂ / ton transported / 100km

Airplanes or drones with vertical and short take-off and landing capability are often less energy-efficient than conventional aircrafts, but enable freight to be brought as close as possible to the final destination when the destination is not an airport. This operational capacity shall be taken into account in the overall calculation of CO₂ emissions.

