



Limosaero currently offers its flagship long-endurance solar-powered drone as a service in the UK, giving Limosaero a competitive advantage given the UAV's extended endurance, without any emissions. The solar-powered drone achieves flight times of 5 to 12 hours, compared to the 1-2 hours of typical electric drones. The drone is deployable by a small team and was designed with cost and payload adaptability in mind. Sensor packages include on-board cameras to capture imagery, as well Limosaero's proprietary integration of a range of atmospheric sensors for trace gas, particulate, and meteorological monitoring.



Limosaero Drone Launch



Limosaero has a long-term future vision of extreme endurance for low-altitude platforms, and is aiming to extend flight durations to six days with future iterations.

In addition to its own flagship UAV, Limosaero holds permission to operate other commercial-off-the-shelf fixed-wing, VTOL, and multi-rotor drones. Limosaero's experience as a drone manufacturer, drone operator, data-analysis service provider, and engineering consultants, well places them to partner with Somerset Council in the development of a business case, CONOPS, regulatory authorisations, and overall demonstration-through-to-service planning to meet their environmental monitoring needs.

CONOPs considerations from the drone perspective include mission profiles, payload selection, ground support requirements, logistics, data collection/transfer/analysis, and regulatory permissions.



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