

AUGA TECH: agricultural technologies



AUGA M1 (Technology Readiness Level (TRL) 8)

a biomethane and
electric-powered tractor

AUGA E1 (TRL 6)

a multimodal electric
agricultural platform
that can handle various
agricultural tasks (e.g.,
cutting, sowing, treshing)

Sustainable feed production and feeding technology (TRL 6)

optimised livestock
farming with sustainable
milk production

- To be defined at later stages
- Minimize environmental impact across the entire agricultural lifecycle
- Lithuania
- Nordic countries, European Union
- Pilot (AUGA M1) and prototype (AUGA E1; Feed production and feeding technology)



AUGA Tech, is a company indirectly owned by AUGA group, developing "Mission no cost to nature" technology portfolio aimed at changing the face of farming.



HOW IT WORKS

One AUGA M1 tractor can save 114 tonnes of CO₂e emissions per year compared to conventional diesel tractors. AUGA M1 tractor uses biomethane, a renewable fuel produced from secondary raw material, which offsets more emissions per unit of energy in the production and use cycle than it itself emits.

AUGA Tech is also developing AUGA E1, a multimodal electric-powered platform, designed to handle all key farming cycle operations, complementary to AUGA M1. AUGA E1 will use standard and AUGA Tech modified implements to complete a range of agricultural operations. One AUGA E1 unit can save 56 tons of CO₂e per year. Initial farm testing for this technology is set to begin in 2024. AUGA E1 does not only eliminate the need for fossil fuels but also offers economic benefits such as reduced operational costs and additional revenue source from grid-balancing capabilities during off-season.

In addition to AUGA Tech's agricultural machinery, a sustainable feed production and feeding technology, aimed at significantly reducing greenhouse gas emissions from milk production, has been pioneered. This patent-pending technology involves centralized production of sustainable feed, automated feeding systems, and advanced AI-driven monitoring of emissions.

BUSINESS

The company's technology portfolio includes AUGA M1, the world's first hybrid biomethane and electric-powered tractor for professional use, AUGA E1, a multimodal electric agricultural platform, and a sustainable feed production and feeding technology. By enlisting external financial and industry partners and successfully testing AUGA technologies, they will become accessible to farmers.

AUGA Tech's solutions enhance sustainability and efficiency in farming. AUGA M1 hybrid tractor operates on both electricity and biomethane produced from secondary raw materials of livestock farming activities, namely cow slurry and chicken manure, significantly reducing CO₂ emissions compared to traditional diesel-powered machinery.

AUGA E1, a versatile electric platform, complements AUGA M1 by handling various agricultural tasks, such as cutting, sowing, treshing and more, with zero fossil fuel consumption. The feed production and feeding technology optimises livestock farming through centralised sustainable feed production, automated feeding processes, and AI tools used to monitor and reduce methane emissions, making milk production more sustainable and cost-effective.

