



AgriPV

November 20th, 2022

Faculty of Engineering

Czech University of Life Sciences Prague

ABOUT FACULTY

Public; established in 1952; over 8,000 graduates

Agricultural engineering - precision agriculture, robotics, remote sensing, crop and soil status

Electrical engineering - PV control, PV panels, sensing systems, IoT, num. simulation, digital twins

Mechanics - constructions e.g. for PV



Production technologies - operational characteristics, production economics, circular economy

Prototype laboratory - design, construction and operation of drones and robots

Cooperation with Research Institute of Agricultural Engineering, p. r. i.

46 implemented international projects at CZU in 2020

e.g. CARES - City Air Remote Emission Sensing (<https://cares-project.eu/>)

ABOUT PROJECT



AgriPV systems for arid and semi-arid regions

Agriphotovoltaic systems for arid and semi-arid regions, where APV can provide shade to crops and grazing animals, supply electricity for water catchment and treatment, post-harvest treatment and cooling of crops, for community use etc., without any reduction in farmland available.

Benefits

Energy supply to farm and community in distant areas

Farm production maintained or ameliorated

Combatting desertification



CONTACT

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