The intentional implementation of sustainable land-management practices and agricultural techniques is integral for success in Agrivoltaics

Sustainably grown food produced energy

Conventional agricultural practices often lead to multiple sustainability challenges, including water scarcity, soil degradation, and loss of biodiversity

When biodiversity declines, so does the land's ability to sustain productive agriculture. Over time, this can significantly reduce crop yields and ecosystem function.

OUR PROJECT



Our goal is to collect
ecological data before,
during, and after panel
installation to get an image of
biodiversity to inform bestpractices guidelines for
sustainable agrivoltaic
development



BIODIVERSITY

THE WIDE VARIETY OF LIFE ON EARTH







WHY IS IT IMPORTANT FOR AGRIVOLTAICS?

WHAT IS BIODIVERSITY?

Biological Diversity: the variety of organisms present at different scales

Genes 📉

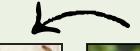


Species



Ecosystem

S











Everything is CONNECTED

Diverse ecosystems are made up of a

variety of **biotic** (living) and **abiotic** (non-living) factors with complex ecological relationships

Higher biodiversity = more ecological variation = stronger, more resilient ecosystems

WHY IS BIODIVERSITY FAVORABLE IN AGRIVOLTAICS SUCCESS?

Agrivoltaics systems may help farmers address **economic and ecological challenges.**

Compared to conventional farming, Agrivoltaic systems may



Pollinator variety



Pollination success



Water retention Erosion control



Carbon storage



Soil Temperature



Beneath the NiPa Action 678-333-7390

View photos of the biodiversity recorded during our pre-installation surveys!





