

# APOLLO – Anhalt Photovoltaic Performance and Lifetime Laboratory



## Quality Assurance for Photovoltaic

The Anhalt Photovoltaic Performance and Lifetime Laboratory (APOLLO) focuses on Photovoltaic metrology, performance measurements, reliability, and durability of Photovoltaic modules and systems. We operate an outdoor and indoor laboratory with state-of-the-art test facilities to characterize Photovoltaic cells, modules, and system components under laboratory and real operation conditions.

### Highlights of our laboratory facility

- Class AAA LED sun simulator with two independent light sources according to IEC standards
- Mobile LED sun simulator for field testing
- Spectrometer for time-resolved (TCSPC) and time-integrated (Raman)
- High-precision meteorological equipment for on-site measurement of environmental parameters
- Energy yield measurements of single PV modules with I-V tracer in different applications (open rack or facade)
- Energy yield measurements of grid-connected Mono- and Bifacial PV systems
- AgriPVplus demonstrator with vertical east/west mounted Bifacial PV modules

## Collaboration

APOLLO is part of the TruePower™ Alliance, founding member of PhotoVoltaic Collaborative to Advance Multi-climate Performance Energy Research (PV CAMPER), and founder of the AgriPVplus Network.

As your partner in national and international research or industrial projects, we offer the development and testing of new PV module technologies and components. If you are looking for an academic partner for funding projects or looking for a reliable test facility for PV prototypes or independent third-party testing, please feel free to contact us.

## Contact

**Prof. Dr. Ralph Gottschalg**  
**Prof. Dr. Carlos Meza**  
**Mr. Sebastian Dittmann**

Department of Electrical, Mechanical and Industrial Engineering

- ✉ [apollo-projects@hs-anhalt.de](mailto:apollo-projects@hs-anhalt.de)
- ☎ +49 3471 355 2354
- 🌐 [www.hs-anhalt.de/apollo](http://www.hs-anhalt.de/apollo)

Research cooperation with

