



الجمهورية الجزائرية الديمقراطية الشعبية
Democratic And Popular Republic Of Algeria
وزارة التعليم العالي والبحث العلمي
Ministry of Higher Education and Scientific Research
جامعة عباس لغرور - خنشلة
University Khenchela - Abbés Laghrour



07. Clean and Affordable Energy

07-05 Low Carbon Energy Use

07-05-02 Total Energy Used from Low-Carbon Sources

Yes, I can provide the following analysis of our low-carbon energy utilization in our university:

Current Low-Carbon Energy Integration:

Solar Energy Implementation: Our primary low-carbon energy source is solar photovoltaic electricity:

Current Deployment (Phase 1):

- **Public Lighting System:** Our pioneering initiative uses solar energy to power outdoor lighting throughout the campus
- **Operational Experience:** This initial implementation has provided valuable experience in maintenance, management, and optimization of solar systems
- **Lessons Learned:** We have developed institutional knowledge in solar technology operation specific to our regional conditions

Planned Expansion (Phase 2): Following technical studies and securing necessary financing, we plan significant expansion of solar energy applications:

Night Lighting:

- Extension of solar-powered lighting to all campus outdoor areas
- Integration of energy-efficient LED technology with solar power
- Smart controls optimizing lighting based on occupancy and natural light

Water Pumping:

- Solar-powered pumping systems for drinking water distribution
- Elimination of grid electricity for water supply operations



- Demonstration of renewable energy applications beyond electricity generation

Security and Monitoring Systems:

- Solar power for surveillance cameras and security equipment
- Renewable energy for alarm systems and access controls
- Enhanced energy resilience for critical safety systems

