



Policy for Local Industry for Energy Efficiency & Clean Energy Adoption

1. Policy purpose

To formalize ACU's role as a regional partner for industry in Mandya and surrounding districts by providing technical services, training, research support, pilot demonstration projects, and institutional capacity building focused on energy efficiency (EE), demand-side management, and clean/renewable energy (RE). The policy makes ACU a predictable, accountable service provider that helps local industry lower energy costs, reduce emissions, and meet state and national targets.

Evidence base: ACU already maintains campus sustainability programs and on-site solar capacity identified in its energy/green audit documents, which form the operational foundation for outreach.

2. Scope

Applies to all ACU schools, departments, centers, and affiliated colleges. Services may be delivered to: micro/SME factories, agri-processing units, healthcare facilities, educational institutions, and energy-using service firms within a 100 km radius of the campus.

3. Definitions (brief)

- **Direct services:** On-site energy audits, technical consultancy, pilot installations, training workshops, workforce upskilling, joint R&D, and incubation support for clean-energy startups.
- **Industry partner:** Any non-academic organization receiving services under this policy.

4. Guiding principles

- Evidence-based, measurable interventions.
- Cost-effective and replicable models.
- Alignment with Karnataka Renewable Energy Policy and MNRE programs.
- Stakeholder engagement and knowledge transfer.
- Financial sustainability and transparent accounting.

5. Institutional structure & governance

1. Energy & Sustainability Cell (ESC) (existing cell expanded): central unit responsible for program delivery, liaising with departments, industry outreach, and monitoring. ESC reports to the Registrar and the Environmental & Energy Committee.



2. Industry Outreach Unit (IOU) under ESC: business development, MOUs, invoicing, and coordination of pilots.
3. Technical Subunits: Energy Audits, Renewable Systems (solar/wind/biomass), Process Efficiency (manufacturing/HE/AC), and Training & Capacity Building.
4. Advisory Board: External members from KREDL, MNRE nodal agencies, local industry, and faculty.

6. Core services

A. Energy audits & diagnostics (Tiered)

- Level 1: Walk-through (quick savings assessment).
- Level 2: Detailed audit (metering, baseline, cost-benefit, payback).
- Level 3: Continuous monitoring & verification (sub-metering, IoT dashboards).
(Use the university's prior energy audit methodology as a template.)

B. Renewable energy project support

- Rooftop solar feasibility, design, vendor selection, and supervision (leveraging state rooftop schemes and MNRE incentives).

C. Process and system optimization

- Compressed air, motors & drives, pumps, HVAC, lighting retrofits, power factor correction, and waste-heat recovery.

D. Demonstration & pilot projects

- Host on-site pilots (e.g., solar + battery + demand response) on partner premises or ACU land to show economics and technical reliability. ACU will document KPIs and produce a replication handbook.

E. Training & certification

- Short courses for industry engineers and technicians (energy manager certification prep, operation/maintenance for solar, energy-efficient manufacturing practices).

F. Joint R&D & student engagement

- Applied research projects with cost-sharing; internships and final-year projects focused on industry problems.

G. Incubation & finance facilitation

- Help startups access state incentives (KREDL), MNRE schemes, bank loans, and CSR funding.

7. Financing & incentives

- Services will be offered under three models: fee-for-service, subsidized pilot (co-funded by grants/CSR), and revenue-share for demonstrated savings.



- ESC shall maintain a revolving “Energy Outreach Fund” seeded from institutional CSR, research grants, and a portion of consultancy fees to subsidize SMEs.
- ACU will actively connect industry partners with relevant Karnataka and central schemes (rooftop solar incentives, PM-KUSUM for agri applications, capital subsidies where applicable).

8. Quality assurance, monitoring & reporting

- All projects require a Project Implementation Plan (PIP) with baseline, expected savings, financing plan, and M&V protocol.
- ESC issues an annual Energy Outreach Report with measured outcomes (energy saved, emissions avoided, participant feedback). Reports are reviewed by the Environmental & Energy Committee and published on the ACU.

9. Alignment with state & national policy

This policy is designed to work alongside Karnataka’s Renewable Energy Policy 2022–27 and central MNRE programs — facilitating rooftop solar, energy storage pilots, and state RE targets — while using ACU’s on-campus experience as a demonstration engine for local industries.


Dr.C.K.Subbaraya
Registrar
Adichunchanagiri University
B.G.Nagara- 571 448