

Funding Request

Battery Energy Storage for the ACT College Solar System

Parakar Campus, Armenia • August 2026

Dear Mr. Simonian:

Thank you for your generous offer to support ACT College with a gift of USD 6,000. We are delighted to propose an investment that will make an immediate, visible difference in the daily life of our campus: the first battery energy storage unit for our existing solar installation.

The Challenge

ACT College's campus in Parakar is equipped with solar panels that generate clean electricity and reduce our operating costs. However, like most grid-connected solar systems, ours cannot operate during power outages: when the main electricity supply is interrupted, the solar system automatically shuts down for safety reasons, and the campus is left without power — even on a sunny day.

Each outage stops classes that depend on computers, design software, and internet connectivity; interrupts online sessions and examinations; and puts our servers and laboratory equipment at risk. For a technology college, electricity is not a comfort — it is the classroom itself.

What Your Gift Will Fund

Your gift of USD 6,000 will fund a complete, working backup power system built around modern lithium iron phosphate (LiFePO4) batteries — the safest and most durable storage technology available today, with a service life of 10–15 years and minimal maintenance:

Item	Estimated cost (USD)
LiFePO4 battery bank, ~10–12 kWh (expandable, stackable modules)	3,400 – 3,900
Hybrid inverter/charger, 8–10 kW (sized for future battery expansion)	1,300 – 1,600
Cabling, protection, automatic transfer switching, mounting	400 – 500
Installation, commissioning, and system configuration	400 – 500
Total	USD 6,000 (approx.)

This system will keep the heart of the campus running through an outage — our servers, internet connectivity, and a core group of classrooms — switching over automatically within seconds, and recharging directly from our solar panels.

Importantly, the system is designed to grow. The batteries are stackable modules and the inverter will be sized for expansion, so your gift establishes the foundation of a campus-wide energy resilience system to which future capacity can simply be added. Your contribution is not a stopgap — it is Phase 1.

Figures are preliminary estimates based on current market prices. We will obtain competitive vendor quotations and share the final specification with you before purchase, and any minor difference from the estimate will be covered by the College.

Impact

- **Continuity of education** — 550 applicants competed for 90 places this year; uninterrupted instruction protects the learning of every enrolled student.
- **Protection of equipment** — servers and network equipment are shielded from damaging sudden shutdowns.
- **Lower operating costs** — stored solar energy reduces electricity costs, freeing funds for scholarships and teaching.
- **Educational value** — students see renewable energy and storage technology working on their own campus, a living example of the green engineering we teach.

Recognition and Reporting

We would be honored to recognize your generosity in the manner you prefer — including naming the energy system in your honor — and will provide a full financial report with vendor invoices upon completion, together with photographs and performance data from the installed system.

Thank you for this meaningful investment in the resilience of ACT College. We would be glad to answer any questions at your convenience.

With gratitude and warm regards,

Amalya Yeghoyan

Executive Director, GITC Scientific-Educational Foundation
Founder, ACT College — Parakar, Armenia