

Homagic to Deliver 100 Zero-Carbon Modular Schools Across Africa by 2027 – UN-Backed Initiative

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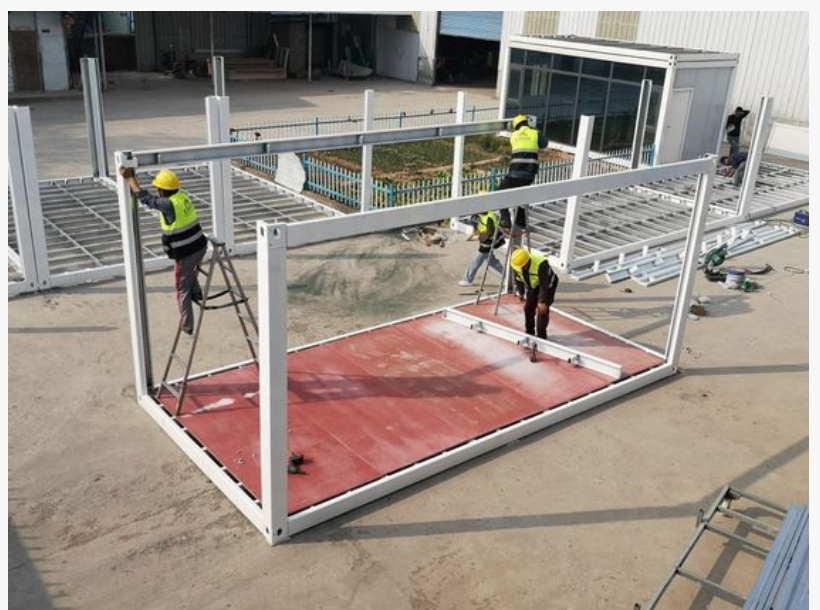
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Construction Integrated Building Co., Ltd. ([CSCEC](#)), through its globally recognized [Homagic](#) brand, has signed a landmark Memorandum of Understanding with UNICEF and the African Union to deliver 100 fully zero-carbon modular schools across 18 African nations by December 2027. Valued at \$680 million, the “SunClass 2027” initiative will see each school built in just six weeks using Homagic’s award-winning Concrete Modular Integrated Construction ([C-MiC](#)) system, powered entirely by off-grid solar and constructed with 95% recycled materials.

Africa’s Education Crisis Meets the Modular Revolution

Africa is home to the world’s fastest-growing school-age population, yet faces a deficit of over 13 million classrooms. UNESCO estimates that sub-Saharan Africa alone needs 4.3 million new teachers and 33 million

additional learning spaces by 2030 to achieve SDG 4 (Quality Education). Traditional brick-and-mortar construction costs \$120–\$180 per square meter and takes 18–36 months per school, while corruption, remote locations, and rainy-season delays routinely push budgets 40% over target.



The global modular education market is exploding in response. McKinsey projects the segment will grow from \$8.4 billion in 2024 to \$24.6 billion by 2030 at a 19.2% CAGR, driven by:

- Speed: 90% off-site fabrication cuts delivery to 4–8 weeks.
- Cost certainty: Factory-controlled processes eliminate weather and theft losses.
- Net-zero mandates: 78% of African governments now require carbon-neutral public buildings by 2035.
- Digital inclusion: Solar-powered smart classrooms with pre-installed Starlink terminals.
- Climate resilience: MiC withstands cyclones, earthquakes, and termites far better than CMU blocks.

UNICEF's 2025–2030 "Generation Unlimited" framework explicitly prioritizes prefabricated, solar-powered schools in fragile states. Homagic's SunClass program directly answers this call, with pilot sites already operational in Kenya (Nairobi County), Rwanda (Kigali Innovation City), and Ghana (Tamale STEM Academy).

Homagic: The Only MiC Provider with Proven Zero-Carbon DNA at Continental Scale

Backed by CSCEC—the world's largest builder and Fortune Global 500 13—Homagic operates as the group's dedicated industrialization platform, running eight digital factories and a 400-strong design institute that holds 186 active patents. The Shenzhen headquarters alone produces 30,000 MiC units annually on fully robotic lines, achieving ± 1.5 mm tolerances and zero construction waste through closed-loop recycling.

SunClass Technical Specifications (Permanent 50-Year Asset)

- Structure: C-MiC with post-tensioned concrete cores + recycled steel frames
- Footprint: 1,200 m² standard campus (24 classrooms + admin + library + ICT lab)
- Height: 1–3 stories (stackable to 20 stories for urban sites)
- Energy: 45 kWp rooftop solar + 120 kWh Tesla Megapack storage □ 100% off-grid
- Water: Atmospheric water generators + rainwater harvesting (15,000 L/day)
- Connectivity: Starlink High-Speed + fiber-ready conduits
- Lifespan: 50 years, fully mortgageable under African Development Bank green bonds
- Build time: 6 weeks from foundation to handover (vs 18 months traditional)

Each classroom ships as four complete volumetric modules—walls, floor, ceiling, MEP, furniture, and interactive whiteboards pre-installed in the factory.

Flagship Deployments Already Transforming Lives

1. Kenya – St. Mary's Solar Academy (Nairobi, Feb 2025)

32 classrooms for 1,200 girls, built in 38 days during rainy season. First African school to achieve

LEED Platinum + ZERO Carbon Certification.

2. Rwanda – Kigali Green Valley School (June 2025)

28 classrooms + 5G innovation hub. Modules craned over volcanic terrain impossible for traditional cranes.

3. Ghana – Tamale STEM Academy (Sept 2025)

40 classrooms + robotics lab. Community trained to assemble final 10% on-site, creating 180 local jobs.

4. Emergency Response – Mozambique Cyclone Freddy (2023 legacy)

Homagic airlifted 60 temporary classrooms in 72 hours; now converting to permanent SunClass hybrids.

Strategic Partnerships Powering Continental Roll-Out

- UNICEF: Curriculum integration + teacher training for 200,000 students
- African Development Bank: \$400 million green-climate financing at 0.75% interest
- CIMC-MBS Alliance: Hybrid steel-concrete modules for seismic zones (Madagascar, Ethiopia)
- Tesla Energy: Exclusive Megapack supply for all 100 sites
- Starlink: Free education bandwidth for 10 years

Phase 1 (2026): 35 schools in Kenya, Rwanda, Ghana, Senegal, Côte d'Ivoire

Phase 2 (2027): 65 schools in Nigeria, Ethiopia, DRC, Tanzania, Uganda, Zambia, and 8 others

From Factory Floor to Future Leaders

Every SunClass campus is designed as a “living lab”: students monitor real-time energy data via IoT dashboards, learning sustainability by living it. Homagic guarantees 25-year performance warranties on solar and structure, with all components recyclable in 2077.

As Africa races toward middle-income status by 2040, education infrastructure remains the single biggest bottleneck. Homagic’s 100 zero-carbon schools will serve 150,000 children annually while demonstrating that speed, sustainability, and scale can coexist.

Developers, ministries, and impact investors seeking replicable models are invited to join the SunClass movement.

Visit the full SunClass 2027 portfolio and download technical whitepapers at

<https://www.homagic.com/>.

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