Template for Evidence(s)
UI GreenMetric Questionnaire

University : Andijan State Institute of Foreign Languages
Country : Uzbekistan
Web Address : www.adchti.uz

[6] Education & Research

[6.16] Number of sustainability-related startups (ED.11)

No.	Information
1	Startup name: Smart Air Purifier "Artificial Tree" (campus prototype) Startup category in UI GreenMetric questionnaire (SI, EC, WS, WR, TR, ED): SI URL: N/A (prototype concept inspired by Green City Solutions' CityTree biofilter approach) Date established: 24-09-2025 Income (in USD): 18.700.000 Revenue (in USD) : 25.000 **Employees:** 3 (student team) + academic supervisor Description: A compact, vertical 'artificial tree' designed to improve local air quality in and around campus by combining a moss (bryophyte) biofilter module with replaceable particulate/gas filters and an integrated ventilation system. The unit draws polluted air through the moss layer and filters, captures dust and selected harmful gases, and releases cleaned air back to the surrounding area. The proposed model targets high-dust urban conditions and can be installed near roads, dormitories, and high-footfall campus spaces. Key modules: (1) moss layer for biofiltration, (2) high-efficiency filters, (3) fan/ventilation unit, and (4) protective mesh + structural frame. Estimated prototype material cost: 18,700,000 $ (based on local component pricing). Photos: (see image below)  

Andijan State Institute of Foreign Languages (ASIFL) promotes sustainability-oriented entrepreneurship by supporting student and staff initiatives that address local environmental challenges through practical innovation. Under ED 6.20, ASIFL reports sustainability-related startup activity through applied projects developed in collaboration with academic units and external partners. A representative initiative is the Smart Air Purifier ("Artificial Tree") concept, which aims to improve urban air quality by combining filtration and nature-inspired biofilter principles. The prototype idea focuses on reducing particulate matter and improving the microclimate in public spaces (campus areas, streets, and community sites), while also raising environmental awareness through demonstrative, science-based solutions. These efforts most directly support SDG 3 (Good Health and Well-being) by contributing to healthier air and reduced pollution-related risks; SDG 9 (Industry, Innovation and Infrastructure) through applied prototyping and innovation; SDG 11 (Sustainable Cities and Communities) by improving environmental conditions in shared urban spaces; SDG 13 (Climate Action) by promoting adaptation-oriented solutions that strengthen local environmental resilience; and SDG 17 (Partnerships for the Goals) through cross-unit and external collaboration. ASIFL documents these startups/projects through internal project proposals, presentations, and implementation plans, ensuring transparent reporting of sustainability entrepreneurship outcomes.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file): https://green-institute.adchti.uz/
https://green-institute.adchti.uz/#education