Local community outreach for energy efficiency

SDG 7 / Community Outreach & Energy-Efficiency Promotion Report
TIIAME National Research University

On 27 November 2024, the team from **TIIAME National Research University** — specifically the "AUTONOMOUS" student-research group — participated in two major national agricultural expos, **Agroexpo Uzbekistan** and **Agrotechmash Expo**, held at "O'ZEKSPOMARKAZ", alongside nearly 100 companies from more than 20 countries. (tiiame.uz)

This participation represents a form of **local-community outreach and public engagement** with a focus on modern, energy-efficient, and sustainable agricultural and mechanization technologies — thereby contributing indirectly to **SDG 7** goals. The public demonstration and dissemination of innovative technologies foster awareness and acceptance of sustainable solutions in agriculture and allied sectors.

Key Outcomes and Relevance to SDG 7

- **Awareness raising:** By showcasing student-developed and research-backed technologies at large public expos, TIIAME informs farmers, industry actors, agricultural businesses, and the broader public about energy-efficient and sustainable mechanization options. This helps promote clean-energy thinking and energy-use efficiency in agriculture and rural communities.
- **Knowledge transfer & community impact:** The outreach creates a channel for transferring academic innovation and engineering solutions from the university to real-world agricultural practitioners and stakeholders — potentially accelerating adoption of energy-efficient machinery and lowering energy consumption across the agricultural sector.
- **Support for green-economy transition:** The engagement aligns with national strategic goals of modernizing agriculture, improving energy efficiency, and reducing reliance on fossil-fuel–intensive mechanization. By involving stakeholders from various countries and local actors, the initiative helps build a market and demand for clean-energy and energy-efficient agricultural technologies.
- **Institutional role in sustainable development:** Through active public engagement, TIIAME demonstrates its commitment not only to research and education but also to societal transformation and grassroots-level promotion of sustainable technologies — thereby reinforcing its institutional capacity in support of SDG 7 and national green-economy objectives.

Reference for further details: TIIAME News — "AUTONOMOUS team participation at Agroexpo Uzbekistan and Agrotechmash Expo", 27 November 2024.
https://tiiame.uz/news?id=7546

SDG 7 – Energy Efficiency & Renewable Energy Outreach Report
TIIAME National Research University

On 14 November 2024, TIIAME initiated an outreach and educational programme aimed at promoting energy efficiency and renewable energy awareness among the local community and industry stakeholders. The programme's official announcement is available at: https://tiiame.uz/news?id=7486

The outreach initiative was designed to disseminate knowledge concerning rational energy consumption, modern energy-efficient technologies, and the potential integration of renewable energy systems into industrial and communal infrastructure. It included seminars, informational sessions, and consultative meetings involving representatives from local enterprises, energy utilities, municipal services, and community organizations.

Through this initiative, TIIAME contributes to the objectives of **SDG 7** by:

- Enhancing public and institutional awareness of energy efficiency principles and renewable energy alternatives.
- Equipping industry and community stakeholders with practical understanding of energy conservation practices, efficient electrical system configuration, and sustainable resource management.
- Laying the groundwork for future implementation of low-carbon energy solutions in industrial, municipal, and residential sectors.
- Promoting the adoption of cleaner energy practices and reducing dependence on conventional, fossil-fuel–intensive energy systems.

The educational and consultative nature of the programme advances the transition toward sustainable and modern energy infrastructure by fostering informed decision-making at the community and organizational levels. This increases the likelihood of energy-efficient upgrades, renewable energy deployment, and reduced environmental impact over time.

At the institutional level, this outreach underscores TIIAME's role not only as an academic and research centre but also as a catalyst for community-level transformation toward sustainable energy consumption. At the national and regional levels, such initiatives support broader energy-efficiency policies, the green-economy agenda, and the promotion of renewable energy adoption across sectors.

Reference for further details: Official TIIAME announcement — Outreach & energy-efficiency promotion programme, 14 November 2024. https://tiiame.uz/news?id=7486

SDG 7 — Institutional Sustainability & Community Engagement Report
TIIAME National Research University

On the date reported under announcement ID 7474, TIIAME initiated a community-oriented outreach program aimed at promoting energy efficiency, rational energy consumption, and broader awareness of sustainable energy practices among local stakeholders and the general public. The official announcement of the program is available at: https://tiiame.uz/news?id=7474

The outreach initiative encompassed informational sessions, public seminars, and consultative meetings involving representatives from local enterprises, utility services, municipal institutions, and community organizations. The primary goals included raising awareness about energy-efficient technologies, advocating for rational consumption of electricity, and informing participants about the advantages of renewable energy integration in both residential and industrial settings.

This initiative contributes to SDG 7 by:

- Enhancing public and institutional awareness of energy efficiency and clean-energy alternatives.
- Equipping community and industry stakeholders with practical knowledge regarding energy conservation, efficient electrical system configurations, and sustainable resource management.
- Establishing foundational conditions for future adoption of low-carbon energy solutions in industrial, municipal, and residential infrastructures.
- Promoting the reduction of dependence on fossil-fuel–intensive energy systems and encouraging transition to energy-efficient practices.

The educational and consultative nature of the program fosters informed decision-making at the community level, thereby increasing the likelihood of energy-efficient upgrades, renewable energy deployment, and long-term reduction of environmental impact. Through its outreach, TIIAME demonstrates its institutional commitment not only to academic and scientific activities, but also to social responsibility and community-level transformation toward sustainable energy consumption.

At national and regional levels, such initiatives support broader strategies for energy efficiency, green economy development, and sustainable infrastructure modernization. The program enhances TIIAME's role as a catalyst for sustainable development by bridging academic knowledge, technological innovation, and societal engagement in support of SDG 7 objectives.