

## Local community outreach for energy efficiency

### TIIAME NRU Programs to Promote Energy Efficiency and Clean Energy in Local Communities

#### Existence of Programs

TIIAME National Research University has developed and implemented various educational programs aimed at increasing awareness and knowledge about **energy efficiency** and **clean energy** within local communities. These programs include:

- **Free courses** on renewable energy and energy-efficient technologies.
- **Workshops and seminars** designed to teach practical methods for reducing energy consumption in households and local industries.
- **Field visits** to energy facilities, such as the **TashGRYeS pumping station** and **Tuyabo‘giz hydroelectric power station**, where community members can see clean energy solutions in action.

#### Evidence Provided

Evidence of these educational programs includes:

- **Participant feedback** and **course completion certificates** from attendees of energy efficiency workshops.
- **Photographs and reports** documenting field visits and seminars, showcasing the practical learning experiences offered.
- **Collaborations** with industry experts and local government officials, ensuring the programs are aligned with regional energy needs.

#### Public Access to Evidence

TIIAME ensures transparency and public access by:

- **Publishing reports, participant testimonials, and event summaries** on its official website and social media platforms.
- **Sharing photos and course materials** through public channels, making the information freely available to the broader community.
- **Providing online access** to recorded seminars and workshops, allowing anyone to learn about energy efficiency and clean energy practices.

By providing these programs, TIIAME is actively educating and empowering local communities, helping them make informed decisions about energy use, and contributing to sustainable practices in the region.

More information: <https://tiame.uz/news?id=6770>



# Courses for Youth and Local Communities on Energy Efficiency and Clean Energy

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TIIAME National Research University offers free courses designed to engage youth and local communities in learning about the importance of **energy efficiency** and the adoption of **clean energy** solutions. These courses aim to empower individuals with the knowledge and skills necessary to contribute to sustainable energy practices, enhancing their ability to make informed decisions about energy use in their homes, businesses, and communities.

## Key Features of the Free Courses:

1. **Energy Efficiency and Clean Energy Fundamentals:**
  - Courses cover essential topics on the **basics of renewable energy** (solar, wind, hydropower) and **energy-efficient technologies**.
  - Practical lessons on reducing energy consumption in daily life and adopting sustainable energy practices.
2. **Training for Local Industry:**
  - Specialized workshops aimed at improving energy efficiency in local industries, focusing on **smart energy management** and **green technologies**.
3. **Hands-On Learning and Field Visits:**
  - Participants engage in field visits to energy-efficient facilities, where they can see the application of clean energy solutions and energy-saving technologies in real-world settings.
  - These visits help youth and local community members understand how sustainable energy is integrated into industries and everyday life.
4. **Interactive Learning Approach:**
  - The courses offer a blend of theoretical knowledge and practical, hands-on learning, making the concepts of energy efficiency and renewable energy more accessible.
5. **Focus on Sustainability:**
  - In addition to energy efficiency, the courses emphasize the environmental benefits of clean energy, such as reducing carbon emissions and improving the local ecosystem.

## Public Evidence and Access:

- The university ensures that course materials, photos, and key takeaways are shared publicly on their website and through community outreach initiatives, providing transparency and access to the broader public.

Through these **free courses**, TIIAME is helping to equip the youth and local communities with the tools they need to promote **energy efficiency** and embrace **clean energy solutions**, contributing to a greener, more sustainable future.

More information: <https://tiame.uz/news?id=4193>



## **Special Education Program: "*Ensuring Savings and Rational Use of Electricity and Expanding the Use of Renewable Energy Sources*". Promoting Energy Efficiency and Green Energy Awareness**

From September 19-21, the National Research University "Tashkent Institute of Irrigation and Agricultural Mechanization Engineers" (TIIAME) hosted a training seminar titled "*Ensuring Savings and Rational Use of Electricity and Expanding the Use of Renewable Energy Sources*". The seminar aimed to address regional energy challenges, enhance the skills of local specialists, and support the adoption of renewable energy technologies and efficient energy practices in Uzbekistan.

TIIAME National Research University has developed a comprehensive educational program aimed at educating a wide audience—including professionals, students, and local residents—on the importance of energy conservation and renewable energy adoption. This program provides opportunities for anyone interested in learning about energy efficiency, sustainable practices, and green energy technologies, offering practical knowledge through structured seminars and workshops.

### **Program Highlights**

#### **1. Open-Access Training Seminars:**

- Seminars are open to all, including local residents, students, and business owners, providing foundational and advanced knowledge about energy conservation and renewable energy.
- Recent sessions have covered:
  - The basics of renewable energy systems like solar and wind power.
  - Simple techniques to economize energy use in homes and businesses.
  - Practical steps to reduce electricity waste and improve energy efficiency.

#### **2. Hands-On Learning Modules:**

- Participants engage in interactive activities to understand concepts such as energy-efficient appliances, optimizing power usage, and installing small-scale renewable systems (e.g., solar panels).
- Demonstrations on reducing energy waste through reactive power compensation and efficient electrical system design.

#### **3. Customized Content for All Audiences:**

- Designed for accessibility, with beginner-level introductions for newcomers and advanced technical workshops for specialists.
- Local schools and community centers can host sessions to teach families about the environmental and financial benefits of green energy.

#### **4. Focus on Renewable Energy Integration:**

- Topics include affordable ways to integrate solar, wind, and small hydropower into daily life or small businesses.
- Emphasis on Uzbekistan's renewable energy potential and practical solutions for clean energy adoption.

### **Key Impacts**

- **Inclusive Education:** Ensures that knowledge about energy efficiency and green energy is available to everyone, not just specialists or professionals.
- **Community Transformation:** Empowers individuals to take actionable steps toward reducing energy costs and environmental impact.
- **Scalable Learning:** The program accommodates diverse audiences, from school students to community leaders, creating widespread awareness and sustainable practices.

Every seminar under this program is based on TIAME's specially designed curriculum, which combines theoretical knowledge with practical applications to make energy efficiency and green energy understandable, accessible, and actionable for all.





# Programmes for Local Communities to Learn About the Importance of Energy Efficiency and Clean Energy

Date: 14.05.2022

TIIAME National Research University offers various programmes aimed at educating the local community on **energy efficiency** and **clean energy**. These programmes are designed to increase awareness, provide hands-on learning experiences, and empower individuals with the knowledge and skills needed to adopt sustainable energy practices.

## Existence of Programmes

### 1. Energy Efficiency and Clean Energy Courses:

TIIAME offers free courses and workshops focused on energy-saving techniques, renewable energy sources, and clean energy technologies. These programmes are open to local communities, students, and professionals, ensuring accessibility to a wide range of individuals.

### 2. Field Visits and Practical Learning:

Local community members, including youth and industry professionals, are invited to participate in field visits to local energy and water facilities, such as the **TashGRYeS** pumping station and **Tuyabo'giz hydroelectric power station**, to learn about real-world applications of clean energy solutions.

## Evidence Provided

### • Documentation and Reports:

Evidence of the programmes includes participant feedback, photos, and activity reports detailing the learning outcomes and impact of these educational initiatives.

### • Collaborative Partnerships:

The university works in partnership with national and international organizations such as **IWMI**, **ICARDA**, and **ZALF** to further strengthen these educational programmes and ensure their effectiveness.

## Public Access to Evidence

### • Public Availability:

All evidence related to these programmes, including course materials, participant feedback, and reports, is made publicly available through TIIAME's website and other outreach channels. This ensures transparency and allows broader access to the educational content for the community.

Through these **educational programmes**, TIIAME not only raises awareness about the importance of energy efficiency and clean energy but also provides the tools and knowledge necessary to implement these practices in everyday life and local industries.

More information: <https://tiame.uz/news?id=2808>



## "Energy Day" – Annual Fair of Innovative Green Energy Developments

To engage young people and nearby communities in the adoption of sustainable energy solutions, TIAME National Research University organizes the "**Energy Day**" fair annually on **December 22**. This event showcases **innovative green energy technologies** and offers a platform for local residents, students, and entrepreneurs to learn about the latest developments in **renewable energy** and **energy efficiency**.

### Key Features of "Energy Day":

- **Exhibitions of Green Energy Solutions:**

The fair features exhibitions of cutting-edge renewable energy technologies, including solar power systems, wind turbines, and energy-efficient devices developed by both TIAME researchers and external innovators.

- **Workshops and Demonstrations:**

Practical workshops and live demonstrations allow visitors to learn about energy-saving practices, the benefits of clean energy, and how to implement these solutions in everyday life.

- **Interactive Learning Opportunities:**

Participants can engage with experts, ask questions, and gain hands-on experience with sustainable technologies, fostering deeper understanding and involvement in green energy practices.

### Impact on the Community:

- **Increased Awareness:**

"Energy Day" provides a unique opportunity for young people and local communities to directly interact with energy experts and learn about the importance of renewable energy for sustainable development.

- **Encouraging Innovation:**

The fair stimulates interest in innovation by encouraging young people to explore and create new green energy solutions, promoting entrepreneurship and the growth of clean energy startups.

By hosting "**Energy Day**", TIAME continues to foster a culture of sustainability and green innovation in local communities, empowering them to take an active role in reducing their carbon footprint and adopting clean energy solutions.

More information: <https://tiame.uz/news?id=2252>

