DEBSEUz

Funded by the European Union

Erasmus+ KA2 Capacity Building project

Development of the targeted Educational program for Bachelors in Solar Energy in Uzbekistan

(DEBSEUz)

January 13-16, 2026

Venue:

Turin Polytechnic University in Tashkent (TTPU)

Little Ring Road 17, Almazar district, 100095, Tashkent city, Uzbekistan

Partner Institutions:

- Tashkent University of Information Technology (**TUIT**), Uzbekistan
- Politecnico di Torino (**POLITO**), Italy
- Universidade de Évora (**UEVORA**), Portugal
- Universidad Politécnica de Madrid (**UPM**), Spain
- Turin Polytechnic University in Tashkent (**TTPU**), Uzbekistan
- Jizzakh Polytechnic Institute (**JizPi**), Uzbekistan
- Fergana Polytechnic Institute (**FerPi**), Uzbekistan
- Andijan State University (**ASU**), Uzbekistan
- Tashkent Institute of Irrigation and Agricultural Mechanization Engineers Institute (**TIIAME**), Uzbekistan
- Karakalpak State University (**KSU**), Uzbekistan
- Ministry of Higher Education, Science, and Innovations of the Republic of Uzbekistan (**MHSSERUZ**)

Specially Invited Organizations:

- Ministry of Energy of the Republic of Uzbekistan (**MinEnergyRUZ**)
- National Research Institute of Renewable Energy Sources (**NIRES**)

PRESS RELEASE

Workshop: Solar Energy for Uzbekistan — Education, Innovation, Industry

Turin Polytechnic University in Tashkent (TTPU) will host a two-day national workshop to strengthen solar energy education and expand cooperation among universities, industry, and government institutions. The event is organized within the Erasmus+ DEBSEUz project, which focuses on developing modern bachelor's programs and practical training environments in the field of solar energy in Uzbekistan.

The first day brings together representatives from Uzbek universities, European partners, government agencies, and renewable energy companies. Participants will discuss how new solar energy laboratories, updated curricula, and collaborative academic initiatives are preparing qualified specialists for Uzbekistan’s growing renewable energy sector. Separate panel discussions will highlight benefits for academic institutions, students, and industry.

The second day is dedicated to a Training-of-Trainers workshop for university instructors. The session will take place in one of the new labs equipped with solar PV systems and measurement tools purchased under the project. Educators will receive practical guidance on teaching key solar topics, including PV system components, performance monitoring, and maintenance techniques.

The workshop aims to support Uzbekistan’s transition toward sustainable energy by improving teaching capacity, expanding hands-on learning opportunities, and fostering stronger collaboration between academia and industry. It also highlights the ongoing contribution of the Erasmus+ programme to modernising engineering education and developing human capital in the country.

Workshop Agenda

Solar Energy for Uzbekistan: Education, Innovation, Industry

Moderator: Mavlyanova Shakhlo

Tuesday, January 13th, 2026 Meeting ZOOM ID: 950 8212 9310 , Access code: 214411	
09:00-09.30	**Registration**
09:30-09:45	**Official Opening/Welcome Speech** Dr Olimjon Tuychiev, Rector of TTPU
09:45-10:05	**Official Speeches** - The Representative of the Ministry of Higher Education, Science and Innovation - Mr Oybek Rikhsiboev, The Ministry of Energy of Uzbekistan - The Representative of the EU Office in Uzbekistan - The Representative of Italian Embassy in Tashkent - Ms Aziza Abdurakhmanova, National Erasmus Office in Uzbekistan - Mr Muzaffar Khakimov, Uzenergoinspectorate - Mr A. Muxamedjanov, National Research Institute of Renewable Energy Sources (NIRES)
10:05 – 10:30	**Introduction of the project and presentation of the workshop** - Introduction from Project Coordinator - Halimjon Khujamatov, TUIT. - Presentation of the workshop days – Pierluigi Leone, POLITO unit coordinator.
10:30 -11:00	**Coffee Break**
11:00 -12:30	**Round Table 1: DEBSEUz for Industry:** industry representatives (renewable energy companies, solar technology firms) join project partners to discuss collaboration and workforce development. The dialogue centers on how DEBSEUz aligns academic outputs with industry needs, producing graduates with the skills required in the solar energy sector. Topics include internship programs, joint R&D in the new labs, and the role of the co-working centers as innovation hubs bridging students and companies. Format: guided panel discussion followed by audience Q&A. Potential list of speakers: • "ACWA Power. Driving sustainable energy transitions" Mr Sh.Onarkulov, ACWA Power • "Renewable Energy Development: Trends And Future Prospects", Mr J. Akhadov, NIRES • "RINA: Ensuring Just, Environmentally Responsible, and Bankable Renewable Energy Projects" Mr Leonardo CANGELMI, RINA (online) • "On the importance of increasing energy efficiency in the sectors of the economy of Uzbekistan" Mr. M. Khakimov, Uzenergoinspectorate

	• "Mir Solar" LLL "Challenges of Integrating Photovoltaic Systems into Power Grids" Professor Akram Mirzabaev, Temur Makhkamov • "A National Quality Infrastructure for PV Power Plants in Uzbekistan: From Design and Forecasting to Operational Audits and Certification" Ms Nilufar Avezova, NIRES • Mr B. Teshaboev, Masdar Uzbekistan • Mr B.Yunusov, SG Energy • Mr B. Gaziev, ABREST Energy Engineering Chairing: Pierluigi Leone & Halimjon Khujamatov
12:30 – 14:00	**Round Table 2: DEBSEUz for Academic Institutions:** panelists (university rectors, faculty) discuss the project's significance for higher education. Topics include curriculum modernization and new educational programs being developed under DEBSEUz, the establishment of solar energy laboratories, and faculty capacity building. Panelists will explore how the project provides an excellent opportunity to organize a stable continuous learning process for universities, improves teaching methods, and fosters international collaboration. (Format: short presentations by panelists followed by Q&A.). Expected 4 interventions. Potential list of speakers: • DEBSEUz and best practices, TUIT, Khujamatov Halimjon • Innovative labs and centers, Polito and ASU. Pierliugi Leone and Raimjon Aliev • New and modernized study programs, FSTU, Kuchkarov Akmaljon • Project achievements, FSTU, Nodirbek Ismailov Chairing: Pierluigi Leone & Halimjon Khujamatov
14:00-15:00	**Lunch Break & Networking**
15:00 – 16:00	**Round Table 3: DEBSEUz for Students:** students and academic staff discuss how learners benefit from the project. The focus is on new learning opportunities: updated bachelor programs and hands-on training in solar energy, including co-working centers where students can apply theory in practice. This session focuses also on inclusivity and student exchanges under. Potential list of speakers: • Best practices in communication for a wider student attraction and for an effective project results promotion, Mariapia Martino, Politecnico di Torino. • An overview of UEVORA's research infrastructure ecosystem for research excellence and innovation, Diogo Canavarro, University of Evora • International student exchange mobility programs at UPM, Slobodan Bojanic Chairing: Pierluigi Leone & Halimjon Khujamatov
16:00 - 16:15	**Synthesis & Next Steps:** summarizing key insights from the round tables, highlights of common themes such as the importance of modernizing curriculum, enhancing students' practical experience, and academia-industry linkages. Outline of upcoming project activities (meetings, trainings).

Wednesday, January 14th, 2026

Meeting ZOOM ID: xxxxx, Access code: 1

09:00 – 09:15	**Innovation in solar energy systems: perspectives from EU partners** **Kick-off & Objectives**: introduction of the session, Prof. Pierluigi Leone.
09:15 – 11:15	**Solar PV System Components and Operation**: Technical Topic Focus & Course Design. Prof. Michele Pastorelli (Politecnico di Torino)
11:15 – 11:30	Coffee Break
11:30 – 13:30	**Solar fuels: green hydrogen production in Uzbekistan** Prof. Pierluigi Leone
13:30 – 14:30	**Lunch**
14:30 – 15:30	**Performance measurement and operational data analysis of a parabolic-trough plant using molten salts as both heat transfer fluid and storage medium** Prof. Diogo Canavarro (University of Evora)
15:30 – 16:30	**Silicon Heterojunction Photovoltaics: Fundamentals, Frontiers, and Future Integration Pathways** Prof. Liliana Medic (Universidad Politécnica de Madrid)
16:30-17:00	**Discussion, opportunities for collaboration**

Thursday, January 15th, 2026

Meeting ZOOM ID: xxxxx, Access code: 1

09:00 – 09:40	**Scientific and applied research on solar photovoltaic energy at ASU.** Prof. R.Alyev, ASU
09:00 – 10:30	**A project to produce silicon-based solar panels together with scientists and students.** prof M.Anarbaev, JizPi
10:30 – 11:10	**Prospects for the Development of Alternative Energy Sources in Uzbekistan.** Professor Kamal Reymov, KSU
11:10 – 11:30	Coffee Break
11:30 – 12:10	**Analysis of power flow in energy systems based on renewable energy sources** Ass. professor Jurabek Izzatillaev, TIIAME
12:10 – 12:50	**The energy potential of the Fergana region based on renewable energy sources and challenges in human resource development.** Professor S. Ergashev, FSTU
13:00 – 14:30	**Lunch**
14:30 – 15:00	**Consortium Meeting – WP1** **WP1: Project management and coordination (TUIT)** (i) Project management and coordination (TUIT)

15:00 – 15:30	**Consortium Meeting – WP3** **WP3: Bachelor Degrees organization (UPM & FerPI, MHSSERUZ)** (i) Developmentof12 newcourseswith lectures and laboratory works (All partners); (ii) Approve and accreditation of new educational programs (FerPi, JizPi and KSU) and modernized exciting educational programs (TIIAME, ASU, TTPU and TUIT); (iii) Approval of new short-term courses on solar energy engineering and maintenance and exploitation of solar energy systems (UPM and FerPI).
15:30 – 16:00	**Consortium Meeting – WP4** **WP4: Establishment of laboratories and centers (POLITO&ASU)** (i) Equipment purchase (7 Uzbek HEIs) and establish centers (3 HEIs) (ASU); (ii) Pilot lunch of training and co-working centers at 2 partner technical universities in Uzbekistan (Polito and ASU).
16:00 -16:30	**Coffee Break**
16:30 -17:30	**Consortium Meeting – WP5** **WP5: Quality Control and Monitoring (TTPU& Polito)** (i) Quality Control and Monitoring (TTPU).
17:30 -18:00	**Consortium Meeting – WP6** **WP6: Dissemination Plan (FerPI & KSU)** (i) Implementation of Dissemination Plan; (ii) Dessimination issues (FERPI); (iii) Web-site preparation and updating; (v) Report of national conference 2 and Organization national conference 3.
18:00	**Free Dinner**

Friday, January 16th, 2026

Meeting ZOOM ID: xxxxx, Access code: 1

10:00 – 13:00	**Visiting laboratories** • **INNO technopark** • **Uzbek National Institute of Metrology - ADDRESS: 333 A, 333 B Farobiy street, Almazar district, Tashkent, 100174, Republic of Uzbekistan/ https://nim.uz/en/** • **ACWA Power Plant (Location: Yuqori-Chirchiq, Tashkent Region, Uzbekistan https://www.acwapower.com/en/projects/tashkent-riverside-pv/)**
13:00-14:00	**Lunch**
14:30 – 17:00	**Visiting laboratories** • ***"Big Solar Furnace" 102226, Tashkent region, Parkent district, "Sun" settlement info@imssolar.uz***