TOSHKENT DAVLAT TIBBIYOT UNIVERSITETI

UNIVERSITET BO‘YICHA ENERGIYA SAMARADORLIGI VA UMUMIY ENERGIYA SARFINI KAMAYTIRISH REJASI

(2026–2030-yillar uchun)

1. Umumiy qoidalar

Mazkur Reja Toshkent davlat tibbiyot universitetining o‘quv, ilmiy, klinik, ma’muriy va boshqa obyektlarida energiya resurslaridan samarali foydalanish, umumiy energiya sarfini bosqichma-bosqich kamaytirish hamda energiya samaradorligini muntazam yaxshilashga qaratilgan.

Reja universitetning barcha tarkibiy bo‘linmalari va balansidagi yoki foydalanishidagi binolar hamda obyektlarga, ularning texnik va tashkiliy xususiyatlarini hisobga olgan holda tatbiq etiladi.

2. Rejaning maqsadi va vazifalari

Maqsad: universitet miqyosida energiya iste’molini tizimli boshqarish va mavjud imkoniyatlardan kelib chiqib umumiy energiya sarfini kamaytirish.

• energiya iste’moli bo‘yicha yagona ma’lumotlar bazasini shakllantirish va muntazam yangilash;

• elektr energiyasi, issiqlik energiyasi va boshqa energiya resurslari sarfini obyektlar kesimida tahlil qilish;

• energiya sarfining ortiqcha yoki samarasiz holatlarini aniqlash va bartaraf etish;

• energiya tejamkor uskunalar va texnologiyalarni bosqichma-bosqich joriy etish;

• energiya iste’moli bo‘yicha mas’uliyat va hisobot mexanizmini belgilash;

• xodimlar va talabalar orasida energiya tejamkor foydalanish madaniyatini rivojlantirish.

3. Asosiy amalga oshirish yo‘nalishlari

T/r	Yo‘nalish	Amalga oshiriladigan ishlar	Mas’ullar	Muddat
1	Energiya iste’molini hisobga olish va bazaviy ko‘rsatkichlarni shakllantirish	Universitet binolari va obyektlari bo‘yicha elektr, issiqlik va boshqa energiya resurslari iste’moli ma’lumotlarini yig‘ish; mavjud hisoblagichlar va hisob-kitob hujjatlari asosida bazaviy ko‘rsatkichlarni shakllantirish.	Energetika/xo‘jalik uchun mas’ul bo‘linma; tarkibiy bo‘linmalar	2026-yil, so‘ngra muntazam
2	Energiya iste’molini muntazam monitoring qilish	Oylik iste’mol ko‘rsatkichlarini obyektlar kesimida tahlil qilish, oldingi davrlar bilan solishtirish va keskin o‘zgarishlar sabablarini aniqlash.	Energetika/xo‘jalik uchun mas’ul bo‘linma	Har oy
3	Energiya sarfini optimallashtirish	Yoritish, isitish, sovutish, ventilyatsiya va boshqa tizimlardan foydalanish rejimlarini tahlil qilish; foydalanilmayotgan xonalarda energiya sarfini cheklash bo‘yicha tashkiliy choralarni ko‘rish.	Tegishli texnik xizmatlar; tarkibiy bo‘linmalar	Doimiy
4	Energiya tejamkor uskunalardan foydalanish	Yaroqlilik muddati tugagan yoki samarasiz uskunalarni almashtirishda energiya samaradorligi yuqori bo‘lgan qurilmalarga ustuvorlik berish; LED yoritish va tejamkor elektr jihozlarini bosqichma-bosqich joriy	Xaridlar va texnik xizmatlar uchun mas’ul bo‘linmalar	2026–2030-yillar

		etish.		
5	Muhandislik tizimlari samaradorligini oshirish	Isitish, sovutish, issiq suv va ventilyatsiya tizimlarining texnik holatini baholash; sozlash, ta’mirlash va modernizatsiya bo‘yicha takliflar ishlab chiqish.	Texnik va xo‘jalik bo‘linmalari	Yillik ehtiyoj asosida
6	Energiya sarfini boshqarish va avtomatlashtirish	Texnik imkoniyat mavjud obyektlarda hisoblagichlar, masofaviy monitoring, avtomatik boshqaruv va zonal yoritish yechimlarini joriy etish imkoniyatini baholash.	Energetika/xo‘jalik bo‘linmasi; IT va texnik xizmatlar	Bosqichma-bosqich
7	Qayta tiklanuvchi energiya imkoniyatlarini ko‘rib chiqish	Quyosh panellari va boshqa qayta tiklanuvchi energiya manbalaridan foydalanish imkoniyatlarini texnik-iqtisodiy jihatdan baholash; maqsadga muvofiq loyihalarni taklif etish.	Energetika/xo‘jalik bo‘linmasi; moliya-iqtisod bo‘linmasi	Har yili
8	Energiya tejamkorligi bo‘yicha xabardorlik	Xodimlar va talabalar uchun energiya resurslaridan oqilona foydalanish, elektr jihozlarini xavfsiz va tejamkor ishlatish bo‘yicha tushuntirish ishlarini tashkil etish.	Fakultetlar; tegishli ma’naviy-ma’rifiy bo‘linmalar	Yiliga kamida bir marta
9	Hisobot va reja samaradorligini ko‘rib chiqish	Yillik energiya iste’moli, amalga oshirilgan tadbirlar, aniqlangan muammolar va keyingi yil uchun takliflarni umumlashtirish.	Energetika/xo‘jalik bo‘linmasi	Har yil yakunida

4. Monitoring ko‘rsatkichlari

• universitet bo‘yicha elektr energiyasi iste’moli (kWh) va issiqlik energiyasi iste’moli (tegishli o‘lchov birligida);

• energiya iste’moli bo‘yicha ma’lumotlari muntazam yig‘iladigan binolar va obyektlar ulushi;

• energiya tejamkor uskunalar bilan almashtirilgan qurilmalar va modernizatsiya qilingan tizimlar soni;

• aniqlangan samarasiz energiya sarfi holatlari va ular bo‘yicha ko‘rilgan choralar;

• reja doirasida bajarilgan tadbirlar va yillik hisobotlarning mavjudligi.

Energiya iste’molini yillar kesimida taqqoslashda obyektlar tarkibidagi o‘zgarishlar, binolarning foydalanish rejimi, talabalar va xodimlar soni, klinik faoliyat hajmi hamda ob-havo sharoitlari kabi omillar imkon qadar inobatga olinadi. Zarur hollarda umumiy sarf bilan birga maydon yoki faoliyat hajmiga nisbatan hisoblangan ko‘rsatkichlar ham tahlil qilinadi.

5. Amalga oshirish va moliyalashtirish tamoyillari

Tadbirlar texnik holat, energiya auditi yoki mavjud ma’lumotlar, texnik-iqtisodiy maqsadga muvofiqlik, ajratilgan mablag‘lar va amaldagi xarid tartib-taomillaridan kelib chiqib bosqichma-bosqich amalga oshiriladi. Mazkur Reja o‘z-o‘zidan aniq miqdoriy qisqartirish majburiyatlari yoki tasdiqlanmagan moliyalashtirish manbalarini belgilamaydi. Miqdoriy maqsadlar tegishli bazaviy ma’lumotlar tahlil qilingandan keyin alohida tasdiqlanishi mumkin.

6. Mas’uliyat va hisobot

Universitetning energetika va xo‘jalik masalalari uchun mas’ul tarkibiy bo‘linmasi Reja ijrosini muvofiqlashtiradi, tarkibiy bo‘linmalardan ma’lumotlarni yig‘adi va yil yakunida umumlashtirilgan hisobot tayyorlaydi. Har bir tarkibiy bo‘linma o‘ziga tegishli obyektlarda energiya resurslaridan oqilona foydalanish va so‘ralgan ma’lumotlarni o‘z vaqtida taqdim etish uchun mas’ul hisoblanadi.

Tasdiqlash: Reja universitet rektorining tegishli buyrug‘i bilan tasdiqlangan kundan e’tiboran amalga kiritiladi.

Rektor: _____

TASHKENT STATE MEDICAL UNIVERSITY

UNIVERSITY-WIDE ENERGY EFFICIENCY AND OVERALL ENERGY CONSUMPTION REDUCTION PLAN

(2026–2030)

1. General Provisions

This Plan aims to improve the efficient use of energy resources, progressively reduce overall energy consumption and continuously improve energy performance across the University's academic, research, clinical, administrative and other facilities.

The Plan applies to all University structural units and buildings or facilities owned, managed or used by the University, taking into account their technical and operational characteristics.

2. Objective and Tasks

Objective: to establish a systematic, University-wide approach to managing energy consumption and reducing overall energy use, subject to available baseline data and feasible measures.

• establish and regularly update a central dataset on energy consumption;

• analyse electricity, heat and other energy use by buildings and facilities;

• identify and address excessive or inefficient energy use;

• progressively introduce energy-efficient equipment and technologies;

• establish responsibilities and reporting arrangements for energy consumption;

• promote energy-conscious practices among staff and students.

3. Main Implementation Areas

No.	Area	Actions	Responsible units	Timeline
1	Energy data collection and baseline	Collect electricity, heat and other energy consumption data for University buildings and facilities and establish baseline figures using available meter readings and billing records.	Facilities/Energy Unit; relevant units	2026, then ongoing
2	Regular energy monitoring	Review monthly consumption by facility, compare it with previous periods and investigate significant changes.	Facilities/Energy Unit	Monthly
3	Optimising energy use	Review operating schedules for lighting, heating, cooling, ventilation and other systems; take operational measures to limit unnecessary energy use in unoccupied spaces.	Technical and facilities services; relevant units	Ongoing
4	Energy-efficient equipment	Give preference to energy-efficient equipment when replacing obsolete or inefficient devices; progressively introduce LED lighting and efficient electrical appliances.	Procurement and technical units	2026–2030
5	Improving building systems	Assess heating, cooling, hot-water and ventilation systems and develop proposals for adjustment, repair or modernisation.	Technical and facilities units	Based on annual needs

6	Energy management and automation	Assess the feasibility of meters, remote monitoring, automated controls and zoned lighting in facilities where technically appropriate.	Facilities/Energy Unit; IT and technical services	Phased
7	Renewable energy opportunities	Assess the technical and economic feasibility of solar and other renewable energy sources and propose viable projects.	Facilities/Energy Unit; Finance Unit	Annually
8	Awareness and engagement	Conduct information activities for staff and students on the responsible use of energy resources and efficient operation of electrical equipment.	Faculties; relevant student and staff engagement units	At least annually
9	Reporting and review	Consolidate annual energy consumption data, completed measures, identified issues and recommendations for the following year.	Facilities/Energy Unit	At year-end

4. Monitoring Indicators

• University-wide electricity consumption (kWh) and heat consumption (in the relevant unit);

• share of buildings and facilities for which energy consumption data are regularly collected;

• number of devices replaced with energy-efficient equipment and systems upgraded;

• identified cases of inefficient energy use and corrective measures taken;

• implementation progress and availability of annual reports.

Year-on-year comparisons should, where possible, take account of changes in the University's building portfolio, occupancy and operating schedules, student and staff numbers, clinical activity and weather conditions. Where appropriate, overall consumption should be assessed alongside intensity indicators, such as consumption per unit of floor area or activity.

5. Implementation and Funding Principles

Measures shall be implemented progressively, subject to technical condition, energy audits or available data, technical and economic feasibility, allocated funding and applicable procurement procedures. This Plan does not itself establish unapproved quantitative reduction commitments or funding sources. Quantitative targets may be approved separately after analysis of reliable baseline data.

6. Responsibilities and Reporting

The University structural unit responsible for energy and facilities management shall coordinate implementation, collect information from structural units and prepare an annual consolidated report. Each structural unit shall be responsible for the efficient use of energy in the facilities under its responsibility and for providing requested information on time.

Approval: This Plan shall enter into force on the date it is approved by the relevant Order of the Rector.

Rector: _____