

Yashil

IQTISODIYOT va TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

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No 8

- 08.00.01 Iqtisodiyot nazariyasi
- 08.00.02 Makroiqtisodiyot
- 08.00.03 Sanoat iqtisodiyoti
- 08.00.04 Qishloq xo'jaligi iqtisodiyoti
- 08.00.05 Xizmat ko'rsatish tarmoqlari iqtisodiyoti
- 08.00.06 Ekonometrika va statistika
- 08.00.07 Moliya, pul muomalasi va kredit
- 08.00.08 Buxgalteriya hisobi, iqtisodiy tahlil va audit
- 08.00.09 Jahon iqtisodiyoti
- 08.00.10 Demografiya. Mehnat iqtisodiyoti
- 08.00.11 Marketing
- 08.00.12 Mintaqaviy iqtisodiyot
- 08.00.13 Menejment
- 08.00.14 Iqtisodiyotda axborot tizimlari va texnologiyalari
- 08.00.15 Tadbirkorlik va kichik biznes iqtisodiyoti
- 08.00.16 Raqamli iqtisodiyot va xalqaro raqamli integratsiya
- 08.00.17 Turizm va mehmonxona faoliyati



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Jurnalning ilmiyligi:

“Yashil” iqtisodiyot va taraqqiyot” jurnali

O'zbekiston Respublikasi Oliy ta'lim, fan va innovatsiyalar vazirligi huzuridagi Oliy attestatsiya komissiyasi rayosatining 2023-yil 1-apreldagi 336/3-sonli qarori bilan ro'yxatdan o'tkazilgan.



MUNDARIJA

Benchmarking asosida oliy ta'lim muassasalarining raqobatbardoshlik xususiyatini oshirish.....	16
Qo'ng'irotboy Avezimbetovich Sharipov, Zaynutdinova Umida Djalolovna	
Mehnat resurslarini samarali boshqarish orqali ish bilan bandlikni ta'minlash	20
Shakarov Zafar Gafforovich	
Трансформация человеческого капитала в условиях цифровизации и внедрения искусственного интеллекта в банковскую экосистему	24
С.С. Исмаилов	
“Kreativ iqtisodiyot” va “kreativ industriya”: mohiyati, nazariy jihatlarining tahlili	32
Dusmuxamedov Oybek Suratbekovich	
Muammoli kreditlar va ularni bartaraf etish yo'llari.....	37
Tojiyev Sardor Dilmurod o'g'li	
Don mahsulotlari tarmog'ida mavjud kamchiliklar va ularning yechimlari	41
Sh.B. Donayev	
Eksportni rivojlantirish iqtisodiy o'sishning asosiy omillaridan biridir.....	45
Xursandov Komiljon Maxmatkulovich	
Yirik soliq to'lovchilar bo'yicha soliq ma'muriyatchiligini tashkil etish	49
Idrisov Alisher Otajonovich	
Institutsional investorlar faoliyatini tashkil etishning konseptual jihatlari.....	53
Sultanov Maxmud Axmedovich	
Poverty in developing countries: new problems and solutions.....	57
Amirdjanova Sitara Sunnat kizi	
Факторы, влияющие на успешное функционирование скандинавской модели развития экономики.....	61
Вохидова Мехри Хасановна	
Анализ зарубежного опыта методологии оценки финансового потенциала развитых стран.....	69
Буранова Лола Вахобовна	
Mamlakatimizda islom moliyaviy xizmatlarini joriy etishning zarurligi.....	78
Babamatov Tolib Hakimovich	
Davlat-xususiy sheriklik loyihalarining tashkiliy-huquqiy mexanizmlari	83
S.A.Karabayev	
O'zbekiston tijorat banklarida valyuta operatsiyalarini amalga oshirish yo'llari.....	90
Yusupov Aziz Shuxratovich	
Sanoatda raqamli transformatsiyaning shakllanishi va rivojlanishi	95
Gulbayeva Feruza Islamovna	
Oliy ta'lim muassasalarining mamlakat iqtisodiy rivojlanishiga ta'siri.....	102
Sherov Alisher Bakberganovich	
Maxsus kiyimlar tikishda foydalaniladigan gazlamalar tahlili.....	107
Sayidova Maftuna Hamroqul qizi	
O'zbekistonda elektron bank xizmatlarini o'zgartirishda raqamli texnologiyalardan foydalanish	111
Umarova Malika Baxtiyarovna	
Оценка влияния налоговой системы на финансовое состояние организаций.....	116
Умида Юлдашева	
Теоретическое обоснование интернет-маркетинга в социальных сетях.....	120
Арипходжаев Саидамир Фузулиддинович	



Sport tashkilotining marketing strategiyasini ishlab chiqish.....	127
Ismoilov Sherzod Dilshodovich	
Kichik biznes va xususiy tadbirkorlik faoliyatini rivojlantirishda klaster tizimini joriy qilish jarayonlari.....	132
Ziyadullayev G'ayrat Umidulla o'g'li	
Hududlar soliq salohiyatini oshirishda soliq risklarini boshqarishning zamonaviy tendensiyalari	138
Sharipov Narzullo G'ulomovich	
O'zbekistonning xalqaro bozordagi faoliyatini kengaytirishda marketing strategiyalaridan foydalanish samaradorligi.....	144
Shadieva Madina Djaloliddin qizi	
Xususiy tadbirkorlik va kichik biznes subyektlarining rivojlanish tendensiyalari.....	148
Jumanazarova Z.K.	
Xalqaro savdoning O'zbekiston iqtisodiyotiga ta'siri	154
Rashidov Bekzod Ulug'bek o'g'li, Isayev Laziz Baxtiyorovich	
Oliygohlarni optimallashtirishda sinergiya samarasiga erishish yo'llari	158
Adizov Sanjar Rashidovich	
Iqtisodiyotni raqamlashtirish sharoitida bank tizimining barqarorligini ta'minlash asosida aholi kambag'allik darajasini qisqartirish	165
Xoliyorov Murod Qahramon o'g'li, Xoliyorova Shoxista Qahramon qizi	
Концептуальная основа маркетинга в социальных сетях в туризме.....	174
Касимова Зилола Гуламиддиновна	
O'zbekistonda don mahsulotlari klasterlarida ishlab chiqarish va xo'jalik faoliyatini rivojlantirish	182
Alimov G'ayratjon Abduraxmon o'g'li	
Актуальные проблемы и пути решения приватизации государственного имущества в узбекистане	186
Шахзод Сайдуллаев	
Ttijorat bank daromadlaridagi risklarni baholash va boshqarishni takomillashtirish	192
Ahmedov Komron Muhammadaliyevich	
Sanoat korxonalarini iqtisodiy salohiyatini oshirishga ta'sir etuvchi omillar tahlili.....	196
Quyjanov Xurshid Abdullayevich	
Tashkilotning moliyaviy natijalarini hisobga olishda auditni takomillashtirish masalalari	200
Bakayev Xurshid Maxmudovich	
Yirik soliq to'lovchilar bo'yicha hududlararo davlat soliq inspeksiyasi o'rni va ahamiyati.....	206
Normurzayev Umid Xolmurzayevich	
Анализ международного опыта в сфере тепличного овощеводства	214
Нурутдинова Зухра Алишеровна	
Hududda turizm xizmatlarini rivojlantirishda xorijiy mamlakatlar tajribalarining mohiyati	220
Madaminova Sanobar Askarovna	
Hududning iqtisodiy o'sishini "yashil" iqtisodiyot asosida shakllantirishning nazariy asoslari.....	226
Shomirzayev Abdug'affor Abdujabbor o'g'li	
Davlat tibbiy sug'urta jamg'armasi faoliyati tahlili.....	230
Umurzakova Mo'tabarxon Nodir qizi	
Qurilish materiallarini ishlab chiqarish korxonalarining boshqarish tizimini takomillashtirish.....	234
Uzakova Umida Ruziyevna	
O'zbekistonda turistik majmualarni boshqarishning zamonaviy konsepsiyalari va yondashuvlarining metodologik jihatlari.....	241
Xomidov Qaxxorali Qurbonali o'g'li	
Aktiv va reaktiv quvvatlari tushunchasi va ularni soliqqa tortishdagi mavjud muammolar	247
Boykabilov Bahodir Mustafayevich	



Kichik sanoat zonalari korxonalar va mahsulotlar raqobatbardoshligini baholashga uslubiy yondashuv	251
Ozoda Batirovna Sakiyeva	
Investitsion jozibadorlikni baholashning uslubiy jihatlari	255
N.N.Zikrillayev	
Hududlarda turizm tarmoqlari infratuzilmasi va uni rivojlantirishni boshqarishning metodologik jihatlari	263
Saidova Dilfuza Abdufattohovna	
The connection of legal protection of geographical indications and state's economic growth	268
Almosova Shahnoza Sobirovna	
Kichik biznesning integratsiyalashuv mexanizmlarini shakllantirish	273
Israilov Rustam Ibragimovich	
Aksiyadorlik jamiyatlarida biznes jarayonlarni samarali boshqarishning nazariy asoslari va o'ziga xos xususiyatlari	277
D.D. Suvanova	
Оптимизация маркетинговой деятельности вузов узбекистана для привлечения абитуриентов	283
Шамшиева Наргизахон Носирхужа кизи	
Davlat budjetidan aholini uy-joy bilan ta'minlashning o'ziga xos xususiyatlari	290
Xannarov Komiljon Karimovich	
Tijorat banklarida transformatsiyalashuv jarayonlarining tahlili	296
Yoqubov Murodjon Valibekovich	
Роль инновационных инфраструктур в обеспечении конкурентоспособности промышленных предприятий	302
Каримов Хожакбар Махамаджон угли	
O'zbekiston qishloq xo'jaligida Osiyocha ishlab chiqarish usuliga asos solinishi	306
Abdulla Abduqodirov	
Kichik biznes korxonalarida ishlab chiqarishda innovatsion jarayonlarni tadqiq qilish yo'llari	312
Nasrullayev Feruz Furqatovich	
Ijtimoiy-iqtisodiy adolat – barqaror rivojlanish kafolati	318
Alimov Nasimjon Hoshimovich	
“Istiqlol” memhonxonasi reklama faoliyati tahlili	322
Musayeva Shoirazimovna, Usmonova Dilfuza Ilhomovna	
To'g'ridan to'g'ri xorijiy investitsiyalarni jalb qilishda asosiy belgilovchi omillar	328
Xaydarov Xurshidbek Latipjonovich	
Enhancing Industrial Efficiency through Integrative Sustainability Approaches	334
Kholmukhamedova Feruza	
Современные способы получения нефтяных битумов	338
Юлдашев Норбек Худайназарович, Махмудов Мухтор Жамолович, Комолов Руслан Илхомбекович	
O'zbekistonda agrobiznes orqali hududlarni rivojlantirish masalalari	342
Islomov Jamshed Davronovich	
Зарубежный опыт трансформации железнодорожной транспортной системы	347
Саримсакова Малохат Хикматуллаевна	
Sog'liqni saqlash sohasida davlat xususiy sherikligini tashkil etishning mintaqaviy xususiyatlari	351
Qurbanov Jumanazar Omonovich	
Savdo korxonalarida buxgalteriya hisobini tashkil etish hamda hisob siyosatini shakllantirish	354
Uzakov Utkir Abdusattarovich	
Sanoatda raqamli transformatsiyaning shakllanishi va rivojlanishi	357
Gulbayeva Feruza Islamovna	



Ta'lim muassasalarida namunaviy shtat, jadvallarni tuzish tartiblarini takomillashtirish	364
Ortiqov Xamroqul Abdumajidovich, Boliyev Bahromjon Rustam o'g'li	
Mamlakatimizda turizm sohasini istiqbolda rivojlantirishga ta'sir etuvchi ekzogen omillar tahlili	369
Yuldasheva Dilnoza Ulug'bekovna	
O'zbekiston Respublikasi tijorat banklarining masofaviy va boshqa xizmatlar bozorida raqobatni rivojlantirish masalalari.....	378
Ortiqov Oybek Abdullayevich	
Transport infratuzilmasining xususiyatlari.....	390
Shodmonbekova Nodira Kamoljon qizi	
Asosiy vositalarni xalqaro standartlar asosida hisobga olish tartibi	394
Shermatov Sirojiddin Haydarovich	
Logistika jarayonlarida raqamli yechimlar.....	399
Yarashova Vasila Kamalovna, Allabergenov Sherzod Maksudbayevich	
To'g'ridan to'g'ri sug'urta qilish operatsiyalari bo'yicha daromadlarning hisobini takomillashtirish.....	403
Abdusaidov S.J.	
Venchur kapitali: kelib chiqish tarixi va ilg'or horijiy tajribalar.....	409
Do'stov Firuz Ilxomovich	
Анализ статистического исследования рынка паломнического туризма в республике узбекистан	414
Мустаева Шохида Саъдуллаевна	
Структурно-функциональный анализ гастрономического туризма в республике узбекистан	420
Салиева Екатерина Сергеевна	
Вопросы привлечения внешнего финансирования металлургических предприятий в узбекистане.....	427
Татьяна Будей	
Mamlakat iqtisodiyotini rivojlantirishda investitsiyalardan foydalanishning afzalliklari	431
Khusanov Nodirbek Djumanazarovich	
Innovatsion g'oyalar va yangi ilmiy ishlanmalar asosida innovatsion mahsulotlar yaratishning boshqaruv tizimi samaradorligini oshirish yo'llari.....	437
Daliyev Xusan Xojakbarovich	
Macroeconomic factors in the development of the banking performance	442
Mamadiyorova Madina Nuriddin kizi, Dr.Susanti Kurniawati, X.S.Umarov	
Mamlakatimizda oziq-ovqat sanoatini rivojlanish holati va uning dolzarbligi	449
Turg'unov Muxridin Mo'ydinjon o'g'li	
Ecological sustainability and trade: economic and environmental implications of uzbekistan's accession to the WTO	453
Mironshokh Sattarov, Denny Andriana, Sirojiddin Yangiboyev	
Hududiy turizm rivojlanishining iqtisodiy samaradorligini oshirishni o'ziga xos tendensiyalari.....	458
Dustmurodov Orifjon Ismatilloevich	
Jismoniy shaxslar daromadlarini soliqqa tortishning ilmiy – nazariy asoslari.....	468
Davletov Po'lat Torabayevich	
Ekoshahar tashkil etishda "yashil" belbog' hamda "yashil" makonning o'rni	476
Karimova Muqaddas Zabixullayevna	
Необходимость изучения механизма управления социально-трудовыми отношениями при переходе республики узбекистан на "зеленую" экономику	479
Раматов Зафарбек Жуманиязович	



Klasterlarning rivojlanish tarixi, ularning o'ziga xos xususiyatlari va raqobatbardoshlikdagi o'rni.....	482
Sherkulov Shohruh Erkin o'g'li	
Soliqlarni raqamlashtirish: QQS ning muammo va istiqbollari	486
Abdulxayeva Shahnoza Muhammadiyevna	
Dehqon va tomorqa xo'jaliklarida sug'oriladigan yerlarning unumdorligini oshirish yo'llari.....	492
Xo'jageldiev Chorshanbi Pardayevich	
Topical issues of analytical support for financial resources management of business entities in modern conditions	498
Jiyanova Nargiza Esanboyevna	
Исследование цифровой валюты центрального банка как новой формы денег.....	506
Якубова Шамшинур Шухратовна	
Структуризация прибыли предприятия, факторы формирования и выявление резервов её повышения.....	513
Гафурова Азизахон Фатиховна	
Xorijiy mamlakatlarda oilaviy migratsiya masalalari.....	517
Kadirova Zulayho Abduhalimovna, Gaziyeva Sulxiya Saidmashrafvna	
Ta'limda innovatsion tadbirkorlikning tarixiy rivojlanishini asosiy bosqichlari.....	522
Madaminova Xusnidaxon Shuxratovna	
Integratsiya jarayonida bog'dorchilikda klasterlarni barpo qilishning tashkiliy-iqtisodiy mexanizmlar va tarkibiy o'zgarishlarga ta'siri.....	526
Ergashov Ulug'bek Zoxidjonovich	
Banklarning moliyaviy xavfsizligi va uning iqtisodiy xavfsizlikka ta'siri.....	532
Mamatov Mamajan Axmadjonovich	
Qishloq xo'jaligida pillachilik biznesini rivojlantirish istiqbollarini belgilash jarayonini ekonometrik modellashtirish.....	535
Turgunov Odilbek Maripovich	
Zamonaviy pul-kredit siyosatining iqtisodiy o'sishni ta'minlashdagi rolini baholash.....	542
Mamanazarov Abdusamat Abdusaitovich	
The unique characteristics of governance systems in various countries: a comparative analysis.....	549
Bozorboev Otamurod Nurmuxammad ugli, Denny Andriana, Usmanov Bunyod	
GREEN ECONOMY AND GREEN CHEMISTRY: principles, priorities, advantages and it's impact to the future.....	553
Fozilova Firangiza Komilovna, Zokirova Ferangiz Zafarovna	
Kichik biznesda yoshlar tadbirkorligini shakllantirish va rivojlantirishning mohiyati va ahamiyati.....	557
Karimova Mavjuda Boxodirovna	
Tijorat banklari raqobatbardoshligini oshirishda xorijiy mamlakatlarning ilg'or tajribalari va ulardan foydalanish yo'llari.....	562
Zaynutdinov Bunyodjon Odiljon o'g'li	
Temir yo'l transportida yuk tashish samaradorligining iqtisodiy negizi tushunchasi va xususiyati.....	568
Shukurova Sultana Suidsultanovna	
Tashqi savdo va iqtisodiy o'sish o'rtasidagi o'zaro aloqalarining hozirgi holati va tendensiyasi.....	572
Hayitova Nigora Ilxomovna	
Mamlakat tashqi qarzini boshqarishning samarali yo'llari.....	576
Choriyev Fazliddin Ishkuvatovich	
A comparative analysis of investment risk management in the non-profit sector	583
Rakhimov Shoxrux Abduqaxxor O'g'li, Muhamad Arief Ramdhany	
Роль налога на доходы физических лиц в формировании бюджета узбекистана.....	587
Наврузова Фарогаатхон	



GREEN ECONOMY AND GREEN CHEMISTRY: PRINCIPLES, PRIORITIES, ADVANTAGES AND IT'S IMPACT TO THE FUTURE

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Abstract: This article explains the concept and significance of the green economy, with a particular focus on the importance of recycling resources and the Sustainable Development Goals (SDGs). Specifically, it highlights how Goal 12 of the SDGs, which pertains to responsible consumption and production, is relevant to the topic discussed in the article.

Key words: Green economy, efficiency, sustainability, development, goals, environmental, political, pollutants, solution, issues, tourism, atmosphere, consumption, production, waste, landfill.

Annotatsiya: Ushbu maqolada yashil iqtisodiyot kontseptsiyasi va ahamiyati tushuntiriladi, ayniqsa resurslarni qayta ishlash muhimligiga va Barqaror rivojlanish maqsadlariga (SDGs). Xususan, u mas'uliyatli iste'mol va ishlab chiqarishga taalluqli SDGning 12-maqsadining maqolada muhokama qilingan mavzuga qanchalik mos kelishini ta'kidlaydi.

Kalit so'zlar: Yashil iqtisodiyot, samaradorlik, barqarorlik, rivojlanish, maqsadlar, ekologik, siyosiy, ifloslantiruvchi moddalar, yechim, muammolar, turizm, atmosfera, iste'mol, ishlab chiqarish, chiqindilar, poligon.

Аннотация: В этой статье объясняется концепция и значение зеленой экономики, с особым акцентом на важности переработки ресурсов и Целях устойчивого развития (ЦУР). В частности, в ней подчеркивается, как Цель 12 ЦУР, которая касается ответственного потребления и производства, связана с темой, обсуждаемой в статье.

Ключевые слова: Зеленая экономика, эффективность, устойчивость, развитие, цели, экологические, политические, загрязняющие вещества, решение, проблемы, туризм, атмосфера, потребление, производство, отходы, свалка.

INTRODUCTION

Green economy refers to an economic system that seeks to promote sustainable development while minimizing environmental impact. It focuses on achieving economic growth through practices that are environmentally friendly and socially inclusive. Here are some main features of a green economy:

Sustainability: It aims to use resources efficiently and responsibly, ensuring that economic activities do not damage natural resources or harm ecosystems.

Reduction of Carbon Footprint: The green economy seeks to lower greenhouse gas emissions through renewable energy sources and energy efficiency.

Resource Efficiency: Emphasizes the efficient use of resources, including energy, water, and raw materials, to reduce waste and promote recycling and reusing.

Economic Diversification: Supports the development of new sectors and technologies that contribute to environmental sustainability, such as clean energy, green technology, and sustainable agriculture.

By integrating these principles, the green economy aims to create a balance between economic growth and environmental stewardship, ultimately leading to a healthier planet and improved quality of life for all.

Начало формы



Scientific understanding of the state and trends of green economy development policy is important because it allows us to determine theoretical basis for its explanatory model, expand the conceptual framework research on development resources and identify some perspectives within different national contexts.

LITERATURE REVIEW

The concept of green economy as the basis of development policy, laid down by the classic works of environmental economists D. Pearce, A. Markandya, E. Barbier and R. Costanza (Pearce, Markandya, Barbier, 1989; Pearce, 1992; Costanza, 1991), long time developed in the traditional mainstream of economic science, but at present time has been widely reflected in various research directions, focusing on various political ones (Wiesmeth, Vashko, 2021; Carter, 2018; Fairbrass, Vasilakos, 2021), economic and social (Legun, Keller, Carolan, Bell, 2020) aspects.

First of all, the green economic model cannot be considered as an absolute benefit, since the green transition policy is inevitably accompanied by the costs of dismantling old institutions and constructing new ones.

The allocation of these costs is uneven between different social groups and between countries (Barbier, 2020; Arze del Granado, Coady, Gilligham, 2012). The implementation of the green economy development policy can be carried out to a certain extent selectively in certain industries and regions, creating negative externalities to others (Brand, 2015).

RESEARCH METHODOLOGY

To study national models and institutional design of green economy development policies, case study methods, traditional analysis of documents at the international and national levels, setting the priorities and objectives of the green economy development policy, as well as a method for analyzing electronic resources positioning activities various subjects of green economy development policy.

ANALYSIS AND RESULTS

Countries facing environmental risks and the need to immediate response to high levels of environmental pollution, limiting economic and social development, demonstrate more strong commitment to green policies.

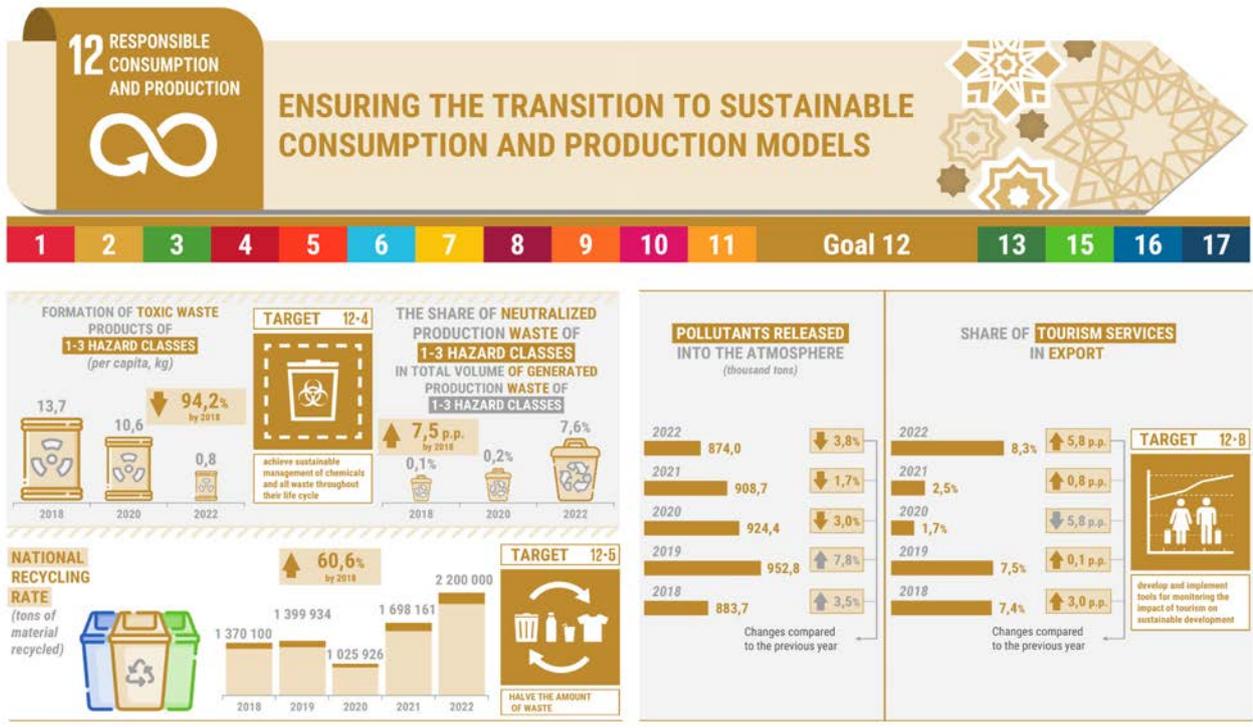
The existing format of interaction between subjects of development policy green economy determines the scope of practice of this process and significantly influences its results.

Now the problem of garbage is especially acute - Uzbekistan annually produces 35 million cubic meters of household waste. This is approximately 254 thousand wagons. Each citizen of Uzbekistan produces about 165 kg of household waste every year.

The most popular method of waste disposal in Russia is burial in landfills, of which there are already more than 1000 in the country. The most important issue is garbage at landfills releases harmful substances into the atmosphere, and it can also contain infections that can cause epidemics in cities. Every year, landfill sites reveal ongoing issues with unauthorized dumping across various factions. Despite efforts to clean the surface debris, these areas continue to degrade over many years, rendering them unusable. Implementing waste recycling could address the pollution problem effectively. Many countries have long been able to completely get rid of landfills through recycling, disposing of all garbage without harm to the environment. In Uzbekistan, only 4% of waste is recycled, the rest is burned or sent to landfills.

Currently in every country SDG is developing day by day. **The Sustainable Development Goals (SDGs)** were established during the United Nations Conference on Sustainable Development held in Rio de Janeiro in 2012. The aim was to create a collection of global objectives designed to address the pressing environmental, political, and economic issues confronting our world. SDG's goal 12 is to ensure sustainable consumption and production patterns.

State support - the state annually allocates funds to combat environmental pollution, so waste processing enterprises receive additional payments. Because our planet is running out of resources, but populations are continuing to grow. You can see from the picture below, here is given information about **Pollutants released** into the atmosphere and share of **Tourism services in export** over the years. In 2018 release increased to 3,5%, in 2019 it increased to 7,8%. But from 2020 till 2022, release reduced for better. In picture everything is given clearly:



Picture 1. Pollutants released into the atmosphere and share of tourism services in export, thousand ton.

Recycling has many contributions to the green economy. Let's take a look at the main advantages of recycling:

Recycling provides the production of missing secondary raw materials, which allows us to slow down the depletion of natural resources and optimize their consumption;

Can obtain alternative energy from the process of processing certain types of waste, and large amount of recyclable materials;

It is environmental friendly because recycling waste allows to reduce the size of landfills and safely dispose of waste;

Industrial enterprises can always hope for government support;

There is no shortage of raw materials, which will have a beneficial effect on the production process;

The lack of competition in this area allows us to hope for significant profit.

Despite the advantages, entrepreneurs are not eager to open processing plants. This is primarily due to the high initial costs of equipment and licenses. Even taking into account financial assistance from the state, this is a very large investment. In order to make a profit over time, large production capacities are required to work with a large number of different wastes, which imposes not only financial problems, but also difficulties in finding premises. While many types of waste can be recycled and reused, which could help mitigate significant issues, the process is not straightforward. Recycling has both benefits and drawbacks. The lack of sufficient recycling facilities to manage the large volume of waste means that this approach has not become widespread.

The concept of Green Chemistry has had this large impact due to the fact that it goes beyond the research laboratory in isolation and has touched industry, education, environment, and the general public. The field of Green Chemistry has demonstrated how chemists can design next generation products and processes so that they are profitable while being good for human health and the environment. Following the scientific enthusiasm of Green Chemistry, teaching initiatives, governmental funding, and the establishment of Green Chemistry Research Centers have multiplied in the past two decades. Many universities now offer classes on Green Chemistry and Green Engineering. Some institutions offer degrees in the field. Governmental funding has also increased in several countries around the world.

The design framework of the Twelve Principles of Green Chemistry has been a template for many advances in the field, however, the Twelve Principles were not meant to be twelve independent goals but rather an integrated cohesive system of design. Only through the applications of all principles can one hope to achieve a truly sustainable process. By seeking out the mutually reinforcing aspects of the principles, systemic sustainable design is possible and can facilitate transformative innovation rather than incremental improvement.



Though the tenets of green chemistry might seem simple to implement, improvements can still be made in a large number of chemical processes. A lot of the chemical products we all utilise come from processes that still fail to meet a number of these principles; plenty of these products are still derived from chemicals from crude oil, and many still produce large amounts of waste. There are, of course, challenges involved in meeting some of the principles in a large number of processes, but it can also drive new research and the discovery of new chemistry. It is to be hoped that, in the coming years, many more processes will be adapted with these principles in mind.

CONCLUSION

An actively pursued green economy development policy can prevent the risks of gradual and even complete devaluation of existing assets (fossil fuel reserves, some capital assets and human capital, for example, competencies in the field of “dirty” industries), occurring under the influence of increasing stringency of environmental requirements in the international trade, the growing competitiveness of green technologies, and social movements.

To sum up, it can be said that the international consensus regarding the need for a green economy development policy has emerged. Created intergovernmental structures global regulatory mechanisms for the development of green practices plays an important role in this process. Public and the global nature of environmental benefits resulting from the implementation green economy policy implies that in the end there can be no winners and losers. However, empirical data on economic and social prospects of green transformations for different countries are still is not enough, which opens up wide scope for additional scientific research.

For generations, molecular scientists have invented the molecules, materials, and manufacturing processes that have allowed economic and societal development. Green Chemistry is ensuring that all of that creative ability that is the long tradition of the field of chemistry is practised in a way that builds in impact on people and the planet as a design criterion. In doing so, Green Chemistry has shown that through innovation companies can be economically more profitable and more environmental benign at the same time. Although an impressive amount of work has been done by practitioners of Green Chemistry around the world, the achievements of the past pale by comparison to the power and potential of the field.

Resources

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