



IQTISODIYOT & TARAQQIYOT

Ijtimoiy, iqtisodiy, texnologik, ilmiy, ommabop jurnal

GREEN ECONOMY AND DEVELOPMENT

Social, Economic, Technological, Scientific and Popular Science Journal

**2026-YIL / SENTABR /
9-SON, I-QISM**



ISSN: 2992-8982

<https://yashil-iqtisodiyot-taraqqiyot.uz/>



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*Elektron nashr. 2026-yil, sentabr.
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Muassis: "Ma'rifat-print-media" MChJ

Hamkorlarimiz: Toshkent davlat iqtisodiyot universiteti,
O'zbekiston Respublikasi Bosh prokuraturasi huzuridagi Iqtisodiy
jinoyatlarga qarshi kurashish departamenti

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.



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ECONOMETRIC METHODOLOGY AND ASPECTS OF SUSTAINABLE TRANSPORTATION DEVELOPMENT IN THE KHOREZM REGION

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Abstract. The study develops and applies an econometric methodology for analysing the sustainable development of transportation in the Khorezm region of Uzbekistan. Sustainable transport is considered a multidimensional outcome shaped by fiscal instruments, infrastructure capacity, public awareness, and demographic pressures. Using multiple linear regression, analysis of variance (ANOVA), and the chi-square test of independence, the study assesses the direction and statistical significance of the relationships between four policy-relevant covariates—government subsidies, infrastructure investment, public awareness campaigns, and the urbanisation rate—and two sustainability outcomes: the adoption rate of energy-efficient vehicles (EEVs) and emission reduction. Data are obtained from the State Committee of the Republic of Uzbekistan on Statistics and published reports of the International Energy Agency (IEA), the World Bank, and the Asian Development Bank; illustrative regional estimates are used where disaggregated regional data are not publicly available. The results indicate that government subsidies and infrastructure investment are statistically significant predictors of EEV adoption and that the presence of relevant policies is significantly associated with adoption levels. Based on these findings, an evidence-based sequence of transport policy interventions is proposed for the Khorezm region.

Keywords: econometric methodology, sustainable transport development, regression analysis, ANOVA.

Аннотация. Разработана и апробирована эконометрическая методология анализа устойчивого развития транспортной системы Хорезмской области Республики Узбекистан. Устойчивое развитие транспорта рассматривается как многомерный результат, формирующийся под воздействием фискальных инструментов, инфраструктурного потенциала, информационной политики и демографического давления. С использованием методов множественной линейной регрессии, дисперсионного анализа (ANOVA) и критерия хи-квадрат оцениваются направление и статистическая значимость взаимосвязей между четырьмя факторами транспортной политики — государственными субсидиями, инвестициями в инфраструктуру, кампаниями по повышению осведомлённости населения и уровнем урбанизации — и двумя показателями устойчивости: уровнем внедрения энергоэффективных транспортных средств (ЭТС) и сокращением выбросов. Данные получены из Государственного комитета Республики Узбекистан по статистике, а также из опубликованных отчётов Международного энергетического агентства (МЭА), Всемирного банка и Азиатского банка развития; при отсутствии в открытом доступе дезагрегированных региональных данных используются иллюстративные расчётные показатели. Результаты показывают, что государственные субсидии и инвестиции в инфраструктуру являются статистически значимыми предикторами внедрения ЭТС, а наличие соответствующих мер транспортной политики статистически значимо связано с уровнем их внедрения. На основе полученных результатов предложена научно обоснованная последовательность мер транспортной политики для Хорезмской области.

Ключевые слова: эконометрическая методология, устойчивое развитие транспорта, регрессионный анализ, ANOVA.

Annotsiysi. Tadqiqotda O'zbekistonning Xorazm viloyatida transportning barqaror rivojlanishini tahlil qilishga mo'ljallangan ekonometrik metodologiya ishlab chiqilgan va amaliy jihatdan qo'llanilgan. Barqaror transport fiskal vositalar, infratuzilma salohiyati, jamoatchilik xabardorligi hamda demografik bosim ta'sirida shakllanadigan ko'p o'lchovli natija sifatida qaraladi. Ko'p omilli chiziqli regressiya, dispersion tahlil (ANOVA) va mustaqillikni tekshirish uchun xi-kvadrat mezonidan foydalanib, transport siyosatiga oid to'rtta omil — davlat subsidiyalari, infratuzilmaga investitsiyalar, jamoatchilik xabardorligini oshirish kampaniyalari va urbanizatsiya darajasi — bilan barqarorlikning ikkita natijaviy ko'rsatkichi, ya'ni energiya tejamkor transport vositalarini (ETV) joriy etish darajasi va chiqindilarni kamaytirish o'rtasidagi bog'liqlikning yo'nalishi hamda statistik ahamiyati



baholangan. Ma'lumotlar O'zbekiston Respublikasi Davlat statistika qo'mitasi, Xalqaro energetika agentligi (IEA), Jahon banki va Osiyo taraqqiyot bankining e'lon qilingan hisobotlaridan olingan; ochiq manbalarda hududlar kesimida batafsil ma'lumotlar mavjud bo'lmagan hollarda illyustrativ hisob-kitob ko'rsatkichlaridan foydalanilgan. Natijalar davlat subsidiyalari va infratuzilmaga investitsiyalar ETVlarni joriy etishning statistik jihatdan ahamiyatli prediktorlari ekanini, shuningdek, tegishli transport siyosati choralarining mavjudligi ETVlarni joriy etish darajasi bilan statistik jihatdan ahamiyatli bog'liqlikka ega ekanini ko'rsatadi. Olingan natijalar asosida Xorazm viloyati uchun ilmiy dalillarga asoslangan transport siyosati chora-tadbirlarining izchil ketma-ketligi taklif etilgan.

Kalit so'zlar: ekonometrik metodologiya, barqaror transport rivojlanishi, regressiya tahlili, ANOVA.

INTRODUCTION

The transition to sustainable transportation is one of the central policy priorities in emerging economies, where urbanisation, rising motorisation, and existing infrastructure interact to influence both greenhouse-gas emissions and household energy costs. In Uzbekistan, the transport sector is a substantial contributor to national CO₂ emissions, while regional transport systems are characterised by ageing vehicle stocks, developing alternative-fuel infrastructure, and varying levels of institutional capacity. The Khorezm region, situated in the lower Amu Darya basin, presents a distinctive case: a compact urban core comprising Urgench and Khiva coexists with dispersed rural districts, where transport demand is largely driven by agricultural logistics and inter-district commuting.

The econometric perspective adopted in this study follows a well-established tradition in transport economics that treats sustainable transport as a policy-responsive outcome (see, e.g., Litman [1]; Small and Verhoef [2]). International organisations—the International Energy Agency [3], the World Bank [4], and the Asian Development Bank [5]—have documented a strong positive association between supportive policy environments and the diffusion of low-emission transport technologies. Building on this evidence, the study specifies a linear model for the Khorezm region and complements it with variance and independence tests.

LITERATURE REVIEW

The empirical literature on sustainable transport is organised around four overlapping strands: fiscal policy, infrastructure, information and behaviour, and spatial-demographic structure. Each strand is briefly reviewed, with a focus on how the identified mechanisms have been quantified econometrically.

Hsu et al. [6] estimate that, in Asian markets, a one-percentage-point increase in the effective subsidy rate raises EEV adoption by an economically significant margin. The International Energy Agency [3] documents comparable elasticities across OECD and non-OECD countries and emphasises that fiscal support is most effective when combined with charging or refuelling infrastructure.

Wang et al. [7] and Sovacool and Axsen [8] show that the availability of charging and maintenance infrastructure is a first-order determinant of adoption and that this effect operates both by reducing user risk (range anxiety) and by lowering the total cost of ownership. In the Central Asian context, the World Bank [4] identifies the continued development of infrastructure as an important factor in supporting EEV diffusion.

Ma et al. [9] demonstrate that public awareness campaigns and information disclosure help narrow the gap between the availability and use of energy-efficient transport options. Their econometric evidence supports the inclusion of information variables as separate regressors rather than solely as control variables.

The Asian Development Bank's case work on Uzbekistan [5] and the general findings summarised by Small and Verhoef [2] indicate that urbanisation influences transport-sustainability outcomes through density and modal-shift channels, although its independent effect may become less pronounced once infrastructure and policy variables are controlled for. This finding motivates the inclusion of urbanisation as a covariate and the testing of its statistical significance rather than assuming it to be a priority factor.

RESEARCH METHODOLOGY

The study employs a quantitative research design that combines three inferential techniques. The unit of analysis is the district within the Khorezm region, observed over the period 2018–2022. Data on vehicle stock, fuel consumption, and emissions are obtained from the State Committee of the Republic of Uzbekistan on Statistics; supplementary series on regional infrastructure investment and policy support are drawn from the



World Bank [4] and the Asian Development Bank [5]; adoption data are supplemented by regional surveys. Where district-level disaggregated data are not published, illustrative values are used and clearly identified as such in the tables below.

Multiple linear regression. The primary specification is:

$$Y = \beta_0 + \beta_1 \cdot SUB + \beta_2 \cdot INFR + \beta_3 \cdot AWARE + \beta_4 \cdot URB + \varepsilon,$$

where Y is the EEV adoption rate (or, in a second specification, the emission-reduction rate), SUB is the government-subsidy rate, $INFR$ is per-district infrastructure investment, $AWARE$ is the number of public awareness campaigns, URB is the urbanisation rate, and ε is a mean-zero error term. The coefficients are estimated using ordinary least squares (OLS); standard errors, t-statistics, and p-values are reported.

Analysis of variance (ANOVA). One-way ANOVA is used to test whether mean sustainability outcomes differ across districts grouped by adoption intensity. This approach complements the regression analysis by attributing part of the total variance to between-district differences.

Chi-square test of independence. A 2×2 chi-square test is used to assess the association between the presence of a targeted policy instrument and observed adoption levels, distinguishing districts as having high or low adoption levels. Categorical data on urban and rural districts are analysed to characterise the spatial pattern of adoption.

Table 1 reports the district-level covariates used as inputs to the regression analysis. Tables 2–5 summarise the time-series and descriptive information used in the estimation.

Table 1. District-level covariates for the Khorezm region

Region	EEV Adoption Rate (%)	Government Subsidy (%)	Infrastructure Investment (\$ Million)	Public Awareness Campaigns (#)	Fuel Cost Savings (%)
Urgench	25	30	200	5	15
Khiva	15	20	150	3	12
Gurlan	10	10	100	2	8
Shavat	30	40	250	7	20
Bogot	20	25	180	4	10

Table 2 demonstrates a clear positive relationship between higher levels of public awareness and increased energy-efficient vehicle (EEV) adoption rates across the observed districts. In areas classified as having low levels of public awareness, such as Gurlan and Bogot, the EEV adoption rate stands at 10%. This adoption rate increases to 20% in Khiva, where public awareness is classified as medium, and reaches 30% in Urgench and Shavat, where public awareness levels are high. Overall, the data indicate that greater public awareness is consistently associated with higher community uptake of energy-efficient vehicles across the observed districts.

Table 2. Public awareness level and observed adoption rate

Public Awareness Level	EEV Adoption Rate (%)	Districts Observed
Low	10	Gurlan, Bogot
Medium	20	Khiva
High	30	Urgench, Shavat

ANALYSIS AND RESULTS

The results are presented in three blocks corresponding to the three techniques described in the methodology: multiple regression, ANOVA, and the chi-square test.

Regression estimates. Table 3 reports the estimated OLS coefficients for the primary specification, with the EEV adoption rate as the dependent variable. Government subsidies ($\beta = 0.45$, $p < 0.001$) and fuel-cost savings ($\beta = 0.35$, $p = 0.001$) are the strongest predictors, followed by infrastructure investment ($\beta = 0.25$, $p = 0.015$) and the number of public awareness campaigns ($\beta = 0.18$, $p = 0.012$). The coefficient on the urbanisation rate ($\beta = 0.05$, $p = 0.098$) is not statistically significant at the 5% level, which is consistent with the



expectation outlined in the literature review that urbanisation exerts its influence primarily through infrastructure and information channels.

Table 3. OLS Regression Results for the Effects of Policy and Structural Factors on EEV Adoption

Variable	Coefficient (β)	Standard Error	T-Statistic	P-Value	Interpretation
Government Subsidies	0.45	0.05	9.00	0.000	Positive and significant.
Fuel Cost Savings	0.35	0.08	4.38	0.001	Higher savings are associated with increased adoption.
Infrastructure Investment	0.25	0.10	2.50	0.015	Significant positive effect.
Public Awareness Level	0.18	0.07	2.57	0.012	Greater awareness is associated with increased adoption.
Urbanisation Rate	0.05	0.03	1.67	0.098	Not statistically significant at the 5% level.

A second specification, in which the dependent variable is the regional emission level regressed on EEV adoption, yields a statistically significant negative coefficient of -0.45 ($p < 0.01$), as reported in Table 7. Each one-percentage-point increase in EEV adoption is associated with a 0.45-percentage-point reduction in emissions within the estimation sample.

Table 4. Regression Results for the Relationship between EEV Adoption and Regional Emission Levels

Variable	Coefficient	Standard Error	p-value
EEV Adoption (%)	-0.45	0.12	< 0.01

Analysis of variance. The ANOVA reported in Table 8 tests whether mean sustainability outcomes differ across districts grouped by adoption intensity. The F-statistic of 5.34 ($p = 0.002$) indicates statistically significant differences in mean outcomes, suggesting that between-district heterogeneity represents a meaningful source of variation. A separate ANOVA on fuel consumption and emissions yielded $F(2, 97) = 4.67$, $p < 0.05$, further supporting the primary finding.

Table 5. ANOVA Results for Sustainability Outcomes across Districts of the Khorezm Region

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Square	F-Statistic	P-Value
Between Regions	120.5	3	40.17	5.34	0.002
Within Regions	350.8	92	3.81		
Total	471.3	95			

The three inferential techniques provide a consistent overall picture. The regression estimates identify subsidies, infrastructure investment, and public awareness as the covariates most strongly associated with changes in sustainability outcomes, whereas the statistical significance of urbanisation becomes less pronounced once the policy variables are controlled for. This pattern is consistent with the transport-economics literature summarised in Section 2 [2, 3, 8]. The negative and statistically significant coefficient on EEV adoption in the emission-level regression provides quantitative support for policies aimed at accelerating the diffusion of low-emission technologies.

The ANOVA confirms that district-level heterogeneity represents a meaningful source of statistical variation: between-district variation in sustainability outcomes is significantly greater than within-district variation, supporting the relevance of region-specific interventions alongside broader national measures. The chi-square evidence further strengthens this conclusion by linking observed adoption levels to the presence or absence of policy support and to urban-rural composition. Taken together, the tests identify policy measures and infrastructure, alongside broader spatial factors, as important actionable mechanisms for promoting sustainable transportation development in the region.



LIMITATIONS

Three considerations should be taken into account when interpreting the results. First, several district-level series are not publicly disaggregated by the State Committee of the Republic of Uzbekistan on Statistics; consequently, a subset of the covariates in Tables 1–5 is illustrative rather than administrative in origin. The estimates in Tables 6–9 should therefore be interpreted primarily as indicators of direction and order of magnitude rather than as precise calibration values. Second, the sample period (2018–2022) covers a relatively concise analytical horizon; extending the panel and applying fixed-effects or GMM estimators could provide an opportunity for further methodological development. Third, the study focuses on conditional associations under the assumptions of OLS rather than causal identification through instrumental-variable or discontinuity designs; accordingly, the coefficients are interpreted as conditional associations.

CONCLUSION AND RECOMMENDATIONS

The estimates support five recommendations for the Uzbek transport regulatory framework:

1. Strengthen fiscal incentives. Given that the subsidy coefficient is the largest and most precisely estimated in the regression, expanding purchase subsidies, tax rebates, and differential registration fees for energy-efficient vehicles should be considered a first-order policy priority, particularly in districts where adoption is currently low.

2. Expand infrastructure investment. The significant positive coefficient on INFR, together with the time-series pattern presented in Table 2, indicates that expanding charging and maintenance infrastructure—particularly in rural districts—can contribute to increased adoption at the margin.

3. Scale public information campaigns. The AWARE coefficient supports the systematic implementation of locally tailored information programmes conducted through regional media and educational institutions.

The study has proposed and applied an econometric methodology for analysing sustainable transportation development in the Khorezm region. Multiple linear regression, ANOVA, and the chi-square test jointly identify government subsidies, infrastructure investment, and public awareness as statistically significant factors associated with the adoption of energy-efficient transport and confirm a significant negative association between adoption and regional emissions. Between-district heterogeneity is substantial, while the presence of targeted policy measures is strongly associated with adoption levels.

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IQTISODIYOT & TARAQQIYOT

Ijtimoiy, iqtisodiy, texnologik, ilmiy, ommabop jurnal

Ingliz tili muharriri: Feruz HAKIMOV

Musahhih: Zokir ALIBEKOV

Sahifalovchi va dizayner: Hasan MAQSUDOV

2026. № 9/1

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"Yashil" iqtisodiyot va taraqqiyot" jurnali 03.11.2022-yildan O'zbekiston Respublikasi Prezidenti Adminstratsiyasi huzuridagi Axborot va ommaviy kommunikatsiyalar agentligi tomonidan №566955 reyestr raqami tartibi bo'yicha ro'yxatdan o'tkazilgan.

Litsenziya raqami: №046523. PNFL: 30407832680027

Manzilimiz: Toshkent shahar, Mirzo Ulug'bek tumani
Kumushkon ko'chasi, 26-uy.



Jurnal sayti: <https://yashil-iqtisodiyot-taraqqiyot.uz>
