



O'ZBEKISTON RESPUBLIKASI
IQTISODIYOT VA MOLIYA
VAZIRLIGI

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البنك الإسلامي للتنمية
Islamic Development Bank



USLUBIY QO'LLANMA

QISHLOQ XO'JALIGI SEKTORI VA QISHLOQ AHOLISI
UCHUN EKOLOGIK DEGRADATSIYA OQIBATLARINI
BARTARAF ETISH BO'YICHA ILG'OR XORIJIY
TAJRIBALARNI HAMDA USHBU AMALIYOTLARNI
O'ZBEKISTONDA JORIY ETISH BO'YICHA
TAVSIYALAR

2024



O'ZBEKISTON RESPUBLIKASI
IQTISODIYOT VA MOLIYA
VAZIRLIGI



USLUBIY QO'LLANMA

**Qishloq xo'jaligi sektori va qishloq aholisi
uchun ekologik degradatsiya oqibatlarini
bartaraf etish bo'yicha ilg'or xorijiy
tajribalarni hamda ushbu amaliyotlarni
O'zbekistonda joriy etish bo'yicha tavsiyalar**

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Ushbu qo'llanma O'zbekiston Respublikasi iqtisodiyot va moliya vazirligi va Birlashgan Millatlar Tashkiloti Taraqqiyot dasturi tomonidan amalga oshirilayotgan hamda Islom taraqqiyot banki va OPEK Xalqaro taraqqiyot jamg'armasi tomonidan moliyalashtirilayotgan «Qishloq joylarini barqaror rivojlantirish» qo'shma loyihasining "Infratuzilmani boshqarishda muhandislik xizmatlari va salohiyatini oshirish" B komponenti doirasida ishlab chiqilgan.

Unda keltirilgan qarashlar va xulosalar faqatgina hisobot mualliflarining nuqtai nazarlari hisoblanib, ular O'zbekiston Respublikasi hukumati, BMTTDning O'zbekistondagi vakolatxonasi, Islom taraqqiyot banki va OPEK Xalqaro taraqqiyot jamg'armasi rasmiy yondashuvi bilan mos kelmasligi mumkin.

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■ KIRISH

O'zbekiston qishloq xo'jaligi sektori ekologik degradatsiyaning oqibatlariga yuqori darajada zaifligi bilan ajralib turadi. Iqlim o'zgarishining uzoq muddatli salbiy tendensiyalari, shuningdek, O'zbekiston iqtisodiyoti tuzilmasi sharoitida agrar sektor va qishloq hududlari mamlakat hududlarining barqaror rivojlanishini ta'minlashda muhim rol o'ynashi barobarida ular tabiiy, iqlimiy va antropogen omillarga tobora zaiflashib bormoqda.

Ushbu salbiy oqibatlarni bartaraf etishda O'zbekiston qishloq xo'jaligi hududlarida atrof-muhitning degradatsiyasi oqibatlarini bartaraf etishga qaratilgan hamda o'simlikshunoslik, chorvachilik, energetika, suv, transport, qurilish va ijtimoiy sohalar kabi turli yo'nalishlarni qamrab oluvchi zamonaviy yechimlarni joriy etish muhim rol o'ynaydi.

Ushbu uslubiy qo'llanma O'zbekistonda amalga oshirilayotgan, ***BMTTDning "Qishloq joylarini barqaror rivojlantirish" qo'shma loyihasi "Muhandislik xizmatlari va infratuzilmani boshqarishda salohiyatini oshirish" nomli B komponenti*** doirasida ishlab chiqilgan bo'lib, u qishloq xo'jaligi sektori va qishloq aholisi uchun ekologik degradatsiya oqibatlarini bartaraf etish bo'yicha ilg'or xorijiy tajribalarni qo'llashga ko'maklashishga qaratilgan.

Ushbu uslubiy qo'llanma quyidagi mavzularni qamrab olgan:

- O'zbekiston uchun iqlim xavf-xatarlari va ehtimoliy ssenariylarni baholashga yondashuvlar;
- ekologik degradatsiya oqibatlariga qarshi kurash sohasidagi tartib-qoidalar va chora-tadbirlarni rejalashtirish bo'yicha tavsiyalar va ma'lumotlar manbalari;
- iqlim o'zgarishi va ekologik degradatsiya oqibatlarini bartaraf etish bo'yicha me'yoriy hujjatlar, tartib-qoidalar va chora-tadbirlarga misollar;
- eng yaxshi va foydalanish mumkin bo'lgan texnologiyalarni tatbiq etishni rejalashtirish;
- ekologik degradatsiya oqibatlariga qarshi kurash, energiya samaradorligini oshirish, dekarbonizatsiyalash va aqlli yechimlarni joriy qilish uchun yashil texnologiyalarning ma'lumotlar bazalarini joriy qilish;
- yashil texnologiyalarni joriy etish xarajatlarini aniqlash bo'yicha tavsiyalar;
- ekologik degradatsiya oqibatlariga qarshi kurash bo'yicha ilg'or milliy tajribalarga namunalar;
- turli sohalarda aqlli texnologiyalarni joriy etish bo'yicha ilg'or milliy tajribalarga namunalar;
- "yashil" loyihalarni amalga oshirish uchun moliyaviy mablag'larni jalb qilish bo'yicha tavsiyalar.

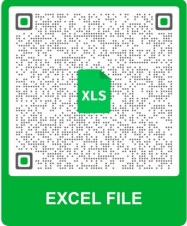
Markaziy va mahalliy davlat hokimiyati organlari, xo'jalik yurituvchi subyektlar, ilmiy va loyihalash tashkilotlari mazkur uslubiy qo'llanmadan quyidagi vazifalarni hal qilishda foydalanishlari mumkin:

- iqlim o'zgarishi va ekologik degradatsiya oqibatlariga qarshi kurashish bo'yicha chora-tadbirlarni ishlab chiqish;
- O'zbekistonda iqlim siyosati bo'yicha chora-tadbirlarni ishlab chiqish;
- milliy, hududiy va tarmoq moslashuv rejalarini ishlab chiqish;


- yerdan foydalanish va chorvachilik texnologiyasini takomillashtirish;
- hududiy rivojlantirishni rejalashtirish;
- “yashil” yechimlarni amalga oshirish chora-tadbirlarini ishlab chiqish;
- innovatsion rivojlanishni rejalashtirish;
- turli sohalar bo'yicha investitsiyalarni rejalashtirish;
- turli maqsadlar uchun obyektlarni loyihalash.

1. O'ZBEKISTON UCHUN IQLIM XAVF-XATARLARI VA EHTIMOLIY SSENARIYLARNI BAHOLASH


1.1. O'ZBEKISTONDA QISHLOQ XO'JALIGI HUDUDLARINING JORIY ZAIF JIHATLARI VA EKOLOGIK DEGRADATSIYA OQIBATLARINI BAHOLASH

Muammo:	Samarali iqlim siyosatini rejalashtirish, shuningdek, ekologik degradatsiya oqibatlariga qarshi kurashish qishloq xo'jaligi hududlarining iqlim o'zgarishi va boshqa salbiy omillar ta'siriga zaifligini baholash bo'yicha batafsil ma'lumotlarga ega bo'lishni talab qiladi.																																							
Qo'llaniladigan yondashuv:	Ushbu muammoni hal qilish uchun geo-axborot tizimlari ma'lumotlaridan foydalanish tavsiya etiladi. O'zbekiston uchun GIS-ma'lumotlari, ya'ni geo-axborot ma'lumotlari FAO GloSIS axborotiga asoslangan quyidagilarni o'z ichiga oladi: <ul style="list-style-type: none"> • hududlar kesimida tuproq bo'yicha batafsil xaritalar; • tuproqlarning qishloq xo'jaligiga yaroqliligini tavsiflovchi asosiy parametrlarning batafsil xaritalari (yaroqlilik, zaharlilik, ozuqa moddalarini saqlash qobiliyati va boshqalar). • tuproqning uglerodni yutish salohiyatining batafsil xaritalari. 																																							
Muammoning yechimi:	Ushbu yondashuvni qo'llash O'zbekiston qishloq xo'jaligi hududlarining iqlim o'zgarishi va ekologik degradatsiya oqibatlariga zaifligini batafsil baholash imkonini beradi. <div data-bbox="1254 882 1441 1106" style="text-align: right;">  <p>EXCEL FILE</p> </div>																																							
Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:	Bu ma'lumotlar Excel faylida yig'ilgan, tegishli kartografik materialga giperhavolalar orqali kirish mumkin. <table border="1" data-bbox="518 1205 1377 1406"> <thead> <tr> <th>№</th> <th>Наименование приложения</th> <th>Ссылка на приложение</th> </tr> </thead> <tbody> <tr> <td colspan="3">Данные GIS-систем по региональным особенностям почв Узбекистана</td> </tr> <tr> <td>1</td> <td>Вероятностное распределение чернозема (Probability of black soil distribution)</td> <td>>> перейти к приложению</td> </tr> <tr> <td>2</td> <td>Распределение чернозема (Distribution of black soils)</td> <td>>> перейти к приложению</td> </tr> <tr> <td>3</td> <td>Неопределенность секвестрационного потенциала органического углерода почвы (GSOSeq - SOC Sequestration Rates Uncertainties)</td> <td>>> перейти к приложению</td> </tr> <tr> <td>4</td> <td>Неопределенность запасов органического углерода почвы (GSOSeq - Soil Organic Carbon Stocks Uncertainties)</td> <td>>> перейти к приложению</td> </tr> <tr> <td>5</td> <td>Прогнозируемые запасы органического углерода почвы (GSOSeq - Projected Soil Organic Carbon Stocks)</td> <td>>> перейти к приложению</td> </tr> <tr> <td>6</td> <td>Карта органического углерода почвы (Global Soil Organic Carbon Map v1.5 (GSOCC))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>7</td> <td>Относительный секвестрационный потенциал органического углерода почвы (GSOSeq - Relative Soil Organic Carbon Sequestration Rates)</td> <td>>> перейти к приложению</td> </tr> <tr> <td>8</td> <td>Илистая фракция верхнего слоя почвы (Topsoil Silt Fraction)</td> <td>>> перейти к приложению</td> </tr> <tr> <td>9</td> <td>Песчаная фракция верхнего слоя почвы (Topsoil Sand Fraction)</td> <td>>> перейти к приложению</td> </tr> <tr> <td>10</td> <td>Референтная объемная плотность верхнего слоя почвы (Topsoil Reference Bulk Density)</td> <td>>> перейти к приложению</td> </tr> <tr> <td>11</td> <td>Референтная объемная плотность нижнего слоя почвы (Subsoil Reference Bulk Density)</td> <td>>> перейти к приложению</td> </tr> </tbody> </table>	№	Наименование приложения	Ссылка на приложение	Данные GIS-систем по региональным особенностям почв Узбекистана			1	Вероятностное распределение чернозема (Probability of black soil distribution)	>> перейти к приложению	2	Распределение чернозема (Distribution of black soils)	>> перейти к приложению	3	Неопределенность секвестрационного потенциала органического углерода почвы (GSOSeq - SOC Sequestration Rates Uncertainties)	>> перейти к приложению	4	Неопределенность запасов органического углерода почвы (GSOSeq - Soil Organic Carbon Stocks Uncertainties)	>> перейти к приложению	5	Прогнозируемые запасы органического углерода почвы (GSOSeq - Projected Soil Organic Carbon Stocks)	>> перейти к приложению	6	Карта органического углерода почвы (Global Soil Organic Carbon Map v1.5 (GSOCC))	>> перейти к приложению	7	Относительный секвестрационный потенциал органического углерода почвы (GSOSeq - Relative Soil Organic Carbon Sequestration Rates)	>> перейти к приложению	8	Илистая фракция верхнего слоя почвы (Topsoil Silt Fraction)	>> перейти к приложению	9	Песчаная фракция верхнего слоя почвы (Topsoil Sand Fraction)	>> перейти к приложению	10	Референтная объемная плотность верхнего слоя почвы (Topsoil Reference Bulk Density)	>> перейти к приложению	11	Референтная объемная плотность нижнего слоя почвы (Subsoil Reference Bulk Density)	>> перейти к приложению
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Maqsadli auditoriya:	<ul style="list-style-type: none"> • markaziy davlat hokimiyati organlari; • mahalliy davlat hokimiyati organlari; • qishloq xo'jaligi ishlab chiqaruvchilari, shu yo'nalishdagi uyushmalar; • ilmiy muassasalar; • loyihalash tashkilotlari. 																																							


1.2. O'ZBEKISTON UCHUN IQLIM O'ZGARISHI PROGNOZLARI


<p>Muammo:</p>	<p>Samarali iqlim siyosatini rejalashtirish, shuningdek, ekologik degradatsiya oqibatlariga qarshi kurashish mintaqaviy darajada xavfli tabiiy hodisalarning prognozlari bo'yicha tasdiqlangan ma'lumotlarning mavjudligini talab etadi.</p>																																				
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun geo-axborot tizimlari ma'lumotlaridan foydalanish tavsiya etiladi.</p> <p>O'zbekiston uchun GIS-ma'lumotlari, ya'ni geo-axborot ma'lumotlari FAO Climate Risk Toolbox axborotiga asoslangan quyidagilarni o'z ichiga oladi:</p> <ul style="list-style-type: none"> • O'zbekistondagi asosiy iqlim xavf-xatarlari to'g'risidagi ma'lumotlar; • 2060-yilgacha bo'lgan davrda O'zbekistondagi asosiy iqlim xavf-xatarlarining mintaqalar bo'yicha prognoz ssenariylari. 																																				
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<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<table border="1" data-bbox="405 999 1294 1189"> <thead> <tr> <th>№</th> <th>Наименование приложения</th> <th>Ссылка на приложение</th> </tr> </thead> <tbody> <tr> <td colspan="3">Данные GIS-систем по опасным природным явлениям Узбекистана</td> </tr> <tr> <td>1</td> <td>Экстремально высокие температуры- период 2021-2040 (Extreme high temperature (SSP1-2.6 - Near-term: 2021-2040))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>2</td> <td>Экстремально низкие температуры- период 2021-2040 (Extreme low temperature (SSP1-2.6 - Near-term: 2021-2040))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>3</td> <td>Экстремальные осадки - период 2021-2040 (Extreme precipitation (SSP5-8.5 - Near-term: 2021-2040))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>4</td> <td>Засуха-базовый период (Drought (Baseline))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>5</td> <td>Наводнения-базовый период (Floods (Baseline))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>6</td> <td>Оползни-базовый период (Landslide (Baseline))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>7</td> <td>Экстремальные осадки - базовый период (Extreme precipitation (Baseline))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>8</td> <td>Экстремально низкие температуры - базовый период (Extreme low temperature (Baseline))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>9</td> <td>Экстремально высокие температуры - базовый период (Extreme high temperature (Baseline))</td> <td>>> перейти к приложению</td> </tr> <tr> <td>10</td> <td>Дикие пожары-базовый период (Wildfires (Baseline))</td> <td>>> перейти к приложению</td> </tr> </tbody> </table> <p>Bu ma'lumotlar Excel faylida yig'ilgan, tegishli kartografik materialga giperhavolalar orqali kirish mumkin.</p>	№	Наименование приложения	Ссылка на приложение	Данные GIS-систем по опасным природным явлениям Узбекистана			1	Экстремально высокие температуры- период 2021-2040 (Extreme high temperature (SSP1-2.6 - Near-term: 2021-2040))	>> перейти к приложению	2	Экстремально низкие температуры- период 2021-2040 (Extreme low temperature (SSP1-2.6 - Near-term: 2021-2040))	>> перейти к приложению	3	Экстремальные осадки - период 2021-2040 (Extreme precipitation (SSP5-8.5 - Near-term: 2021-2040))	>> перейти к приложению	4	Засуха-базовый период (Drought (Baseline))	>> перейти к приложению	5	Наводнения-базовый период (Floods (Baseline))	>> перейти к приложению	6	Оползни-базовый период (Landslide (Baseline))	>> перейти к приложению	7	Экстремальные осадки - базовый период (Extreme precipitation (Baseline))	>> перейти к приложению	8	Экстремально низкие температуры - базовый период (Extreme low temperature (Baseline))	>> перейти к приложению	9	Экстремально высокие температуры - базовый период (Extreme high temperature (Baseline))	>> перейти к приложению	10	Дикие пожары-базовый период (Wildfires (Baseline))	>> перейти к приложению
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1.3. O'ZBEKISTON UCHUN IQLIM XAVF-XATARLARINI KOMPLEKS BAHOLASH

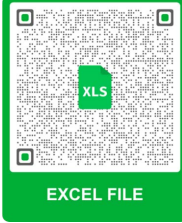
Muammo:	Samarali iqlim siyosatini rejalashtirish, shuningdek, ekologik degradatsiya oqibatlariga qarshi kurashish O'zbekiston hududlari kesimida uzoq muddatli iqlim xavf-xatarlari bo'yicha tasdiqlangan ma'lumotlarning borligini talab qiladi.																																										
Qo'llaniladigan yondashuv:	<p>Ushbu muammoni hal qilish uchun geo-axborot tizimlari ma'lumotlaridan foydalanish tavsiya etiladi.</p> <p>O'zbekiston uchun GIS-ma'lumotlari, ya'ni geo-axborot ma'lumotlari FAO Climate Risk Toolbox axborotiga asoslangan quyidagilarni o'z ichiga oladi:</p> <ul style="list-style-type: none"> • 2060-yilgacha bo'lgan davr uchun O'zbekiston uchun uning hududlari kesimidagi tabiiy xavf-xatarlarni jamlanma baholash; • O'zbekiston uchun uning hududlari kesimidagi ta'sir, zaif jihatlar va moslashuv xususiyatlarining jamlanma xavf-xatarlari; • 2060-yilgacha bo'lgan davrda O'zbekiston uchun uning hududlari kesimida iqlim xavflarini umumiy baholash. 																																										
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2. EKOLOGIK DEGRADATSIYA OQIBATLARIGA QARSHI KURASHISH SOHASIDAGI SIYOSAT VA CHORA-TADBIRLARNI REJALASHTIRISH BO'YICHA TAVSIYALAR VA MA'LUMOTLAR MANBALARI


<p>Muammo:</p>	<p>Iqlim o'zgarishi va ekologik degradatsiyaning oqibatlariga qarshi kurash bo'yicha tartib-qoidalar va chora-tadbirlarni ishlab chiqish tasdiqlangan metodologiyalar va ma'lumotlar manbalaridan foydalanishni talab qiladi.</p>																																																																						
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun iqlim o'zgarishlari muammolari bo'yicha hukumatlararo ekspertlar guruhi (UNFCCC) manbalarining ma'lumotlar bankida jamlangan usullar, muvaffaqiyatli keyslarga misollar va o'quv materiallaridan foydalanish tavsiya etiladi.</p>																																																																						
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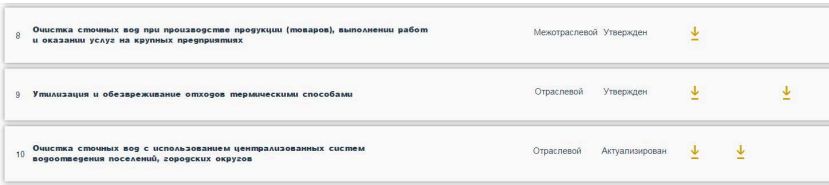
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<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<p>Bu ma'lumotlar Excel faylida yig'ilgan, tegishli materialga giperhavolalar orqali kirish mumkin.</p> <table border="1" data-bbox="523 869 1375 1124"> <thead> <tr> <th>ID</th> <th>Region Name</th> <th>Country</th> <th>Region NUTS code</th> <th>NUTS level</th> <th>Title of Strategy in EN</th> <th>Title of Strategy in original language</th> <th>Territorial level</th> <th>Status of Strategy</th> <th>Year of publication/updated</th> <th>Regional Authority/Organization in charge</th> <th>URL Link to the document</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PAYS DE LA LOIRE</td> <td>FR</td> <td>FRG</td> <td>1</td> <td>PAYS DE LA LOIRE BIO-BASED CIRCULAR ECONOMY PLAN D'ACTION VERS UNE BIOECONOMIE</td> <td>Plan d'action économie circulaire 2018-2025</td> <td>regional</td> <td>published</td> <td>2018</td> <td>Association of the Chambers of Agriculture</td> <td>https://ac3a.fr/</td> </tr> <tr> <td>2</td> <td>PAYS DE LA LOIRE</td> <td>FR</td> <td>FRG</td> <td>1</td> <td>Circular Economy action plan 2018-2025</td> <td>Plan d'actions économie circulaire 2018-2025</td> <td>regional</td> <td>published</td> <td>2018</td> <td>Région Pays de la Loire</td> <td>https://www.pdl.fr/</td> </tr> <tr> <td>3</td> <td>PAYS DE LA LOIRE</td> <td>FR</td> <td>FRG</td> <td>1</td> <td>Regional roadmap for the microalgae sector</td> <td>Feuille de route régionale en faveur d'algues</td> <td>regional</td> <td>published</td> <td>2020</td> <td>Région Pays de la Loire</td> <td>https://www.pdl.fr/</td> </tr> <tr> <td>4</td> <td>BRETAGNE</td> <td>FR</td> <td>FRH</td> <td>1</td> <td>Roadmap for a circular economy in Brittany</td> <td>Feuille de route bretonne pour une économie circulaire</td> <td>regional</td> <td>published</td> <td>2020</td> <td>Région Bretagne</td> <td>https://www.bretagne.fr/</td> </tr> <tr> <td>5</td> <td>BRETAGNE</td> <td>FR</td> <td>FRH</td> <td>1</td> <td>Biomass Plan for the Brittany Region</td> <td>Schéma Régional Biomasse de Bretagne</td> <td>regional</td> <td>published</td> <td>2019</td> <td>Région Bretagne</td> <td>https://www.bretagne.fr/</td> </tr> <tr> <td>6</td> <td>NORMANDIE</td> <td>FR</td> <td>FRD</td> <td>1</td> <td>Circular Economy Strategy in Normandie</td> <td>Stratégie pour une économie circulaire en Normandie</td> <td>regional</td> <td>published</td> <td>2020</td> <td>Région Normandie</td> <td>https://www.normandie.fr/</td> </tr> <tr> <td>7</td> <td>NORMANDIE</td> <td>FR</td> <td>FRD</td> <td>1</td> <td>Normandie Wood Energy programme</td> <td>Programme d'animation Bois-énergie régionale</td> <td>regional</td> <td>published</td> <td>2019</td> <td>Biomasse Normandie</td> <td>http://bois-energie.fr/</td> </tr> <tr> <td>8</td> <td>AQUITAINE-LIMOUSIN-POITOU-CHARENTAIS</td> <td>FR</td> <td>FRI</td> <td>1</td> <td>Roadmap for an energy and ecological transition</td> <td>Transition écologique et énergétique régionale</td> <td>regional</td> <td>published</td> <td>2019</td> <td>Région Nouvelle-Aquitaine</td> <td>https://de.cala.fr/</td> </tr> <tr> <td>9</td> <td>CENTRE - 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<p>Muammo:</p>	<p>O'zbekistonda iqlim siyosatini samarali rejalashtirish iqlim o'zgarishi oqibatlarini kamaytirishga qaratilgan sohaviy faoliyat sohasida ilg'or xorijiy tajribalarni hisobga olishni taqozo etadi.</p>																																																																																																																																												
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun Yevropa Ittifoqining turli sohalari, shu jumladan qishloq xo'jaligi uchun iqlim siyosati va chora-tadbirlari ma'lumotlar bazasidan foydalanish tavsiya etiladi.</p>																																																																																																																																												
<p>Muammoning yechimi:</p>	<p>Ushbu yondashuvni qo'llash Yevropa Ittifoqi davlatlarining iqlim siyosatini rejalashtirish bo'yicha ilg'or tajribalari, jumladan, agrar sektor, qayta tiklanuvchi energiya manbalarini hisobga olish, shuningdek, ushbu chora-tadbirlarni amalga oshirish bo'yicha xarajatlar va daromadlarni baholash imkonini beradi.</p> <div data-bbox="1214 465 1401 689" style="text-align: right;">  <p>EXCEL FILE</p> </div>																																																																																																																																												
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4. ENG YAXSHI VA FOYDALANISH MUMKIN BO'LGAN TEXNOLOGIYALARNI TATBIQ ETISHNI REJALASHTIRISH

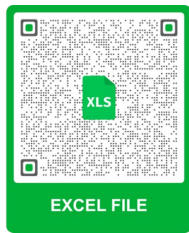
4.1. ENG YAXSHI VA FOYDALANISH MUMKIN BO'LGAN TEXNOLOGIYALAR BO'YICHA AXBOROT-TEXNIK TO'PLAMLAR

Muammo:	Samarali ekologik siyosatni amalga oshirish eng yaxshi foydalanish mumkin bo'lgan texnologiyalar bo'yicha bilimlarni qo'llashga asoslanadi. Bunday ma'lumotlardan soha mutaxassislari har doim ham foydalana olmaydilar.
Qo'llaniladigan yondashuv:	Ushbu muammoni hal qilish uchun energiya samaradorligini oshirish, qishloq xo'jaligi mahsulotlarini qayta ishlash va chiqindilarga ishlov berish kabilarni o'z ichiga olgan sanoat va sohalarning keng doirasi uchun eng yaxshi va foydalanish mumkin bo'lgan texnologiyalar bo'yicha axborot-texnik to'plamlardan (EFMT ATT) foydalanish tavsiya etiladi.
Muammoning yechimi:	EFMT ATTdan foydalanish keng doiradagi manfaatdor tomonlarga eng yaxshi mavjud texnologiyalardan foydalanishning afzalliklari, ularni amalga oshirish xarajatlari, erishilgan texnik va iqtisodiy samaralar va texnik yechimlarni yetkazib beruvchilar haqida to'liq ma'lumot olish imkonini beradi.
Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:	<p>Ma'lumotlar eng yaxshi va foydalanish mumkin bo'lgan texnologiyalar to'plamini keyinchalik yuklab olish uchun ATT Byurosi veb-saytidagiga giperhavolasi orqali olinadi:</p> 
Taklif qilinayotgan yechimni amaliy qo'llash imkoniyatlari:	<p>Mazkur materiallardan quyidagi amaliy muammolarni hal qilish uchun foydalanish mumkin:</p> <ul style="list-style-type: none"> • iqlim o'zgarishi va ekologik degradatsiya oqibatlariga qarshi kurashish bo'yicha chora-tadbirlarni ishlab chiqish; • qishloq xo'jaligi mahsulotlarini qayta ishlash texnologiyalarini takomillashtirish; • investitsion rejalashtirish; • hududiy rivojlantirishni rejalashtirish.
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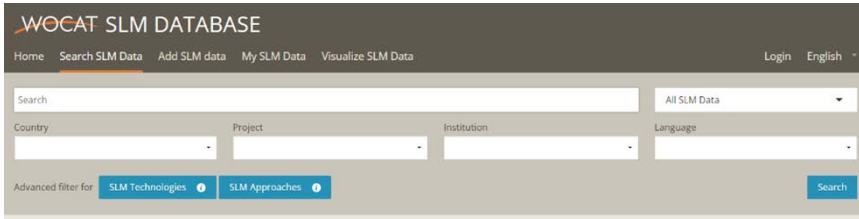
8 Очистка сточных вод при производстве продукции (товаров), выполнении работ и оказании услуг на крупных предприятиях	Мехотраслевой Утвержден	↓
9 Оптимизация и обезвреживание отходов термическими способами	Отраслевой Утвержден	↓ ↓
10 Очистка сточных вод с использованием централизованных систем водоснабжения поселений, городских округов	Отраслевой Актуализирован	↓ ↓

4.2. TOZA ENERGETIKA TEXNOLOGIYALARI SOHASIDAGI KO'RGAZMALI LOYIHALAR



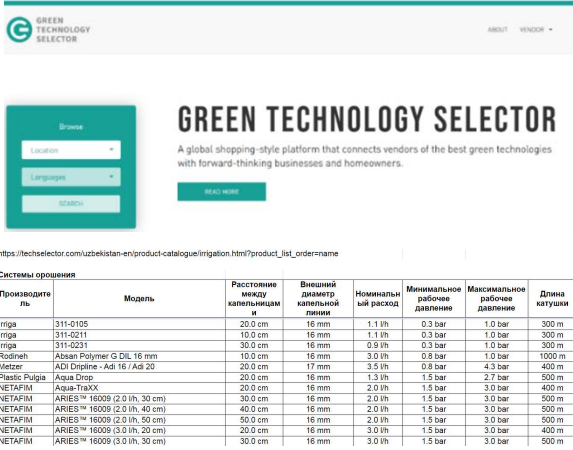
<p>Muammo:</p>	<p>Toza energetika texnologiyalarini joriy etish ekologik degradatsiya oqibatlarining salbiy ta'sirini kamaytirishning muhim usuli hisoblanadi. Shu bilan birga, qaror qabul qiluvchilar ko'pincha zamonaviy loyihalarning texnik va iqtisodiy parametrlari, ushbu yechimlarni amalga oshirish xarajatlari va foydalari to'g'risida zarur ma'lumotlarga ega bo'lmaydilar.</p>																																																
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun Xalqaro energetika agentligining (IEA) toza energetika texnologiyalarini joriy etish bo'yicha ko'rgazmali loyihalarning texnik-iqtisodiy ko'rsatkichlarini jamlovchi ma'lumotlar bazasidan foydalanish tavsiya etiladi.</p>																																																
<p>Muammoning yechimi:</p>	<p>Ushbu yondashuvdan foydalanish bizga toza energetika texnologiyalarini joriy etish bo'yicha tajriba loyihalarini amalga oshirish bo'yicha ilg'or xorijiy tajribalar, loyihalar doirasida erishilgan samaralar, loyihani amalga oshirish xarajatlari, texnologiyalarni yetkazib beruvchilar va kelgusidagi texnologik yechimlarni yanada joriy qilish rejaları haqida batafsil, ishonchli ma'lumotlarni olish imkonini beradi.</p>																																																
<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<p>Bu ma'lumotlar Excel faylida yig'ilgan, har bir referent loyiha bo'yicha tegishli asosiy manbaga giperhavolalar orqali kirish mumkin:</p>  <table border="1" data-bbox="496 981 1326 1128"> <thead> <tr> <th>Country</th> <th>Sector</th> <th>Technologies</th> <th>Name</th> <th>Status</th> <th>Capacity</th> <th>Timing</th> <th>Total funding, million USD</th> </tr> </thead> <tbody> <tr> <td>Australia</td> <td>Biofuels</td> <td>Production</td> <td>Loganholme Wastewater Treatment Plant Gasification Facility Demonstration Project</td> <td>Operational</td> <td></td> <td>2019</td> <td>13,2</td> </tr> <tr> <td>Australia</td> <td>Biofuels</td> <td>Production</td> <td>Remerg Bioenergy Coals/Waste to Energy through Pyrolysis - Biodiesel and bioerosene</td> <td>Operational</td> <td>12 kt/y</td> <td>2020</td> <td>7,6</td> </tr> <tr> <td>Australia</td> <td>Hydrogen</td> <td>Production</td> <td>Clean Energy Innovation Park</td> <td>Under construction</td> <td>10 MW</td> <td>2023</td> <td>35,5</td> </tr> <tr> <td>Australia</td> <td>Hydrogen</td> <td>Production</td> <td>Desert Bloom Hydrogen</td> <td>Under construction</td> <td>8000 MW</td> <td></td> <td>8 300,1</td> </tr> <tr> <td>Australia</td> <td>Hydrogen</td> <td>Production</td> <td>Christmas Creek Renewable Hydrogen Mobility Project</td> <td>Under construction</td> <td>250 MW</td> <td>2022</td> <td>24,7</td> </tr> </tbody> </table>	Country	Sector	Technologies	Name	Status	Capacity	Timing	Total funding, million USD	Australia	Biofuels	Production	Loganholme Wastewater Treatment Plant Gasification Facility Demonstration Project	Operational		2019	13,2	Australia	Biofuels	Production	Remerg Bioenergy Coals/Waste to Energy through Pyrolysis - Biodiesel and bioerosene	Operational	12 kt/y	2020	7,6	Australia	Hydrogen	Production	Clean Energy Innovation Park	Under construction	10 MW	2023	35,5	Australia	Hydrogen	Production	Desert Bloom Hydrogen	Under construction	8000 MW		8 300,1	Australia	Hydrogen	Production	Christmas Creek Renewable Hydrogen Mobility Project	Under construction	250 MW	2022	24,7
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5. EKOLOGIK DEGRADATSIYA OQIBATLARIGA QARSHI KURASHISH, ENERGIYA SAMARADORLIGINI OSHIRISH, DEKARBONIZATSIYALASH VA AQLLI YECHIMLARNI JORIY QILISH UCHUN YASHIL TEXNOLOGIYALARNING MA'LUMOTLAR BAZALARINI JORIY QILISH

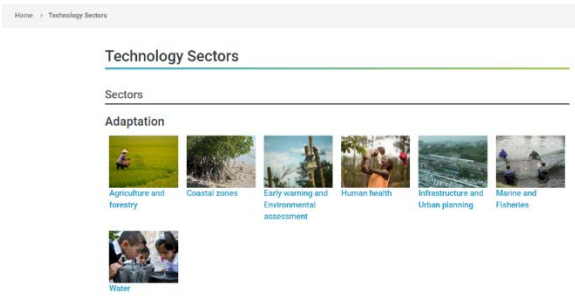
5.1. YERDAN BARQAROR FOYDALANISH SOHASIDAGI WOCAT TEXNOLOGIYALARI BAZASI

Muammo:	Ekologik degradatsiya oqibatlariga qarshi samarali kurashish uchun minglab ehtimoliy yechimlar mavjud. Qishloq xo'jaligi sohasidagi zamonaviy texnologiyalar haqida ma'lumotlardan foydalanish imkoniyatini qo'lga kiritishga O'zbekistonda katta ehtiyoj bor.
Qo'llaniladigan yondashuv:	Ushbu muammoni hal qilish uchun yerdan barqaror foydalanish sohasidagi yechimlarning WOCAT ma'lumotlar bazasidan foydalanish tavsiya etiladi.
Muammoning yechimi:	<p>Bu ma'lumotlar bazasida qishloq xo'jaligi ekinlarining ekologik degradatsiyasining turli omillari (biologik, shamol tuproq eroziyasi, tuproq sho'rlanishi, sug'orishda suv tanqisligi va boshqalar) oqibatlariga qarshi kurashda qo'llaniladigan 1800 dan ortiq agrotexnik yechim va usullar mavjud. Mazkur ma'lumotlar bazasi yechimlarni amalga oshirish xarajatlari, ularni amalga oshirishning afzalliklari, yechimlarni ishlab chiquvchilar va texnologiyani sinovdan o'tkazish loyihalari haqida batafsil ma'lumotlarni ham o'z ichiga oladi.</p> 
Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:	 <p>Ma'lumotlar WOCAT veb-saytiga havola orqali taqdim etiladi; texnologiyalarni tanlash, ularning texnik va iqtisodiy parametrlari, amalga oshirish xarajatlari va foydalari, amalga oshirilgan loyihalar misollari tanlovi filtrlar tizimi orqali amalga oshiriladi.</p>
Taklif qilinayotgan yechimni amaliy qo'llash imkoniyatlari:	<p>Mazkur ma'lumotlardan quyidagi amaliy muammolarni hal qilish uchun foydalanish mumkin:</p> <ul style="list-style-type: none"> • O'zbekistonda iqlim siyosati bo'yicha chora-tadbirlarni ishlab chiqish; • iqlim o'zgarishi va ekologik degradatsiya oqibatlariga qarshi kurashish bo'yicha chora-tadbirlarni ishlab chiqish; • milliy, hududiy va tarmoq moslashuv rejalarini ishlab chiqish; • yerdan foydalanish va chorvachilik texnologiyasini takomillashtirish; • investitsion rejalashtirish; • hududiy rivojlantirishni rejalashtirish.
Maqsadli auditoriya:	<ul style="list-style-type: none"> • markaziy davlat hokimiyati organlari; • mahalliy davlat hokimiyati organlari; • qishloq xo'jaligi ishlab chiqaruvchilari, shu yo'nalishdagi uyushmalar; • ilmiy muassasalar; • loyihalash tashkilotlari.



5.2. "GREEN TECHNOLOGY SELECTOR" TEXNOLOGIYALARI BAZASI

<p>Muammo:</p>	<p>Ekologik degradatsiya oqibatlariga qarshi samarali kurashish uchun minglab ehtimoliy yechimlar mavjud. Qishloq xo'jaligi sohasidagi zamonaviy texnologiyalar, shuningdek bunday yechimlarni yetkazib beruvchilar bo'yicha ishonchli ma'lumotlardan foydalanish imkoniyatini qo'lga kiritishga O'zbekistonda katta ehtiyoj bor</p>
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun "yashil" yechimlar bo'yicha YTTB ishlab chiqqan Green Technology Selector ma'lumotlar bazasidan foydalanish tavsiya etiladi.</p>
<p>Muammoning yechimi:</p>	<p>Bu ma'lumotlar bazasida qishloq xo'jaligi, energiya samaradorligi va suvdan foydalanish uchun o'n minglab jihozlar to'g'risidagi ma'lumotlar har bir mamlakat bo'yicha yetkazib beruvchilarning kataloglariga asoslangan.</p>
<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<div style="display: flex; align-items: center;"> <div style="flex: 1;">   </div> <div style="flex: 1;"> <p>Ma'lumotlarga Green Technology Selector ma'lumotlar bazasi veb-saytiga giperhavola orqali kirish mumkin. Texnologiyalar, ularning parametrlari va yetkazib beruvchilarni tanlash filtrlar tizimi orqali amalga oshiriladi. Asosiy texnologiyalar bo'yicha texnik xususiyatlar alohida Excel faylida jamlangan.</p> </div> <div style="flex: 1;">  </div> </div>
<p>Taklif qilinayotgan yechimni amaliy qo'llash imkoniyatlari:</p>	<p>Mazkur ma'lumotlardan quyidagi amaliy muammolarni hal qilish uchun foydalanish mumkin:</p> <ul style="list-style-type: none"> • O'zbekistonda iqlim siyosati bo'yicha chora-tadbirlarni ishlab chiqish; • iqlim o'zgarishi va ekologik degradatsiya oqibatlariga qarshi kurashish, energiya samaradorligini oshirish bo'yicha chora-tadbirlarni ishlab chiqish; • milliy, hududiy va tarmoq moslashuv rejalarini ishlab chiqish; • yerdan foydalanish va chorvachilik texnologiyasini takomillashtirish; • investitsion rejalashtirish; • hududiy rivojlantirishni rejalashtirish.
<p>Maqsadli auditoriya:</p>	<ul style="list-style-type: none"> • markaziy davlat hokimiyati organlari; • mahalliy davlat hokimiyati organlari; • tadbirkorlik subyektlari; • ilmiy muassasalar; • loyihalash tashkilotlari.

5.3. CTCN TEXNOLOGIYALAR BAZASI


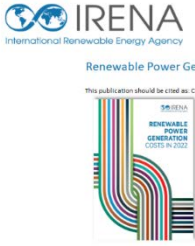
<p>Muammo:</p>	<p>Ekologik degradatsiya oqibatlariga qarshi samarali kurashish uchun minglab ehtimoliy yechimlar mavjud. Qishloq xo'jaligi, suv xo'jaligi, sogliqni saqlash sohasidagi zamonaviy texnologiyalar haqida ma'lumotlardan foydalanish imkoniyatini qo'lga kiritishga O'zbekistonda katta ehtiyoj bor.</p>
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun "yashil" yechimlar bo'yicha UNFCCC tavsiya qilgan CTCN ma'lumotlar bazasidan foydalanish tavsiya etiladi.</p>
<p>Muammoning yechimi:</p>	<p>Bu ma'lumotlar bazasida turli xil ekologik degradatsiya omillarining turli sanoat tarmoqlariga ta'siriga qarshi kurashish uchun qo'llaniladigan yuzlab texnik yechimlar va usullar mavjud. Mazkur ma'lumotlar bazasi yechimlarni amalga oshirish xarajatlari, ularni amalga oshirishning afzalliklari, yechimlarni ishlab chiquvchilar va texnologiyani sinovdan o'tkazish loyihalari haqida batafsil ma'lumotlarni ham o'z ichiga oladi.</p>
<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<p>Ma'lumotlar CTCN veb-saytiga havola orqali taqdim etiladi; texnologiyalarni tanlash, ularning texnik va iqtisodiy parametrlari, amalga oshirish xarajatlari va foydalari, amalga oshirilgan loyihalar misollari tanlovi filtrlar tizimi orqali amalga oshiriladi.</p> 
<p>Taklif qilinayotgan yechimni amaliy qo'llash imkoniyatlari:</p>	<p>Mazkur ma'lumotlardan quyidagi amaliy muammolarni hal qilish uchun foydalanish mumkin:</p> <ul style="list-style-type: none"> • O'zbekistonda iqlim siyosati bo'yicha chora-tadbirlarni ishlab chiqish; • iqlim o'zgarishi va ekologik degradatsiya oqibatlariga qarshi kurashish, suvdan foydalanish samaradorligini oshirish bo'yicha chora-tadbirlarni ishlab chiqish; • milliy, hududiy va tarmoq moslashuv rejalarini ishlab chiqish; • qishloq, suv xo'jaligi, shuningdek, ijtimoiy infratuzilma uchun texnologiyalarni takomillashtirish; • investitsion rejalashtirish; • hududiy rivojlantirishni rejalashtirish.
<p>Maqsadli auditoriya:</p>	<ul style="list-style-type: none"> • markaziy davlat hokimiyati organlari; • mahalliy davlat hokimiyati organlari; • qishloq xo'jaligi ishlab chiqaruvchilari, shu yo'nalishdagi uyushmalar; • ilmiy muassasalar; • loyihalash tashkilotlari.

5.4. "WIPO GREEN" TEXNOLOGIYALAR BAZASI


<p>Muammo:</p>	<p>Ekologik degradatsiya oqibatlariga qarshi samarali kurashish uchun minglab ehtimoliy yechimlar mavjud. Qishloq xo'jaligi, suv xo'jaligi, energiya samaradorligi, chiqindilarni qayta ishlash, qurilish sohalaridagi zamonaviy texnologiyalar haqida ma'lumotlardan foydalanish imkoniyatini qo'lga kiritishga O'zbekistonda katta ehtiyoj bor.</p>
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun "yashil" yechimlar bo'yicha Intellectual mulk bo'yicha butunjahon tashkiloti tavsiya qiladigan WIPO Green ma'lumotlar bazasidan foydalanish tavsiya etiladi.</p>
<p>Muammoning yechimi:</p>	<p>Bu ma'lumotlar bazasida turli xil ekologik degradatsiya omillarining turli sanoat tarmoqlariga ta'siriga qarshi kurashish uchun qo'llaniladigan minglab texnik yechimlar va usullar mavjud. Mazkur ma'lumotlar bazasi yechimlarni amalga oshirish xarajatlari, ularni amalga oshirishning afzalliklari, yechimlarni ishlab chiquvchilar va texnologiyani sinovdan o'tkazish loyihalari haqida batafsil ma'lumotlarni ham o'z ichiga oladi.</p> 
<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<p>Ma'lumotlar WIPO Green veb-saytiga havola orqali taqdim etiladi; texnologiyalarni tanlash, ularning texnik va iqtisodiy parametrlari, amalga oshirish xarajatlari va foydalari, amalga oshirilgan keyslar (loyihalar) misollari tanlovi filtrlar tizimi orqali amalga oshiriladi.</p> 
<p>Taklif qilinayotgan yechimni amaliy qo'llash imkoniyatlari:</p>	<p>Mazkur ma'lumotlardan quyidagi amaliy muammolarni hal qilish uchun foydalanish mumkin:</p> <ul style="list-style-type: none"> • O'zbekistonda iqlim siyosati bo'yicha chora-tadbirlarni ishlab chiqish; • iqlim o'zgarishi va ekologik degradatsiya oqibatlariga qarshi kurashish, suvdan foydalanish samaradorligini oshirish bo'yicha chora-tadbirlarni ishlab chiqish; • milliy, hududiy va tarmoq moslashuv rejalarini ishlab chiqish; • qishloq, suv xo'jaligi, shuningdek, ijtimoiy infratuzilma uchun texnologiyalarni takomillashtirish; • investitsion rejalashtirish; • hududiy rivojlantirishni rejalashtirish.
<p>Maqsadli auditoriya:</p>	<ul style="list-style-type: none"> • markaziy davlat hokimiyati organlari; • mahalliy davlat hokimiyati organlari; • qishloq xo'jaligi ishlab chiqaruvchilari, shu yo'nalishdagi uyushmalar; • ilmiy muassasalar; • loyihalash tashkilotlari.

6. YASHIL TEXNOLOGIYALARNI JORIY ETISH XARAJATLARINI ANIQLASH BO'YICHA TAVSIYALAR


6.1. QAYTA TIKLANUVCHI ENERGIYA MANBALARI TEXNOLOGIYALARI UCHUN XARAJATLAR PROGNOZI

Muammo:	Qayta tiklanuvchi energiya manbalari texnologiyalarini joriy etishni samarali rejalashtirish uchun qaror qabul qiluvchilar ushbu yechimlarni amalga oshirish xarajatlari to'g'risida ishonchli ma'lumotlarga ega bo'lishlari zarur.
Qo'llaniladigan yondashuv:	Ushbu muammoni hal qilish uchun Qayta tiklanuvchi energetika bo'yicha xalqaro agentlik (IRENA) ma'lumotlar bazasidan foydalanish tavsiya etiladi.
Muammoning yechimi:	Mazkur ma'lumotlar bazasida qayta tiklanuvchi energiya manbalarining asosiy texnologiyalarini joriy etish xarajatlari va qayta tiklanuvchi energiya manbalari bozoridagi geografik tendentsiyalarga oid dolzarb ma'lumotlar o'rin olgan. <div data-bbox="1257 696 1444 920" style="text-align: right;">  <p>EXCEL FILE</p> </div>
Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:	<p>Bu ma'lumotlar Excel faylida yig'ilgan, jadval ko'rinishidagi tegishli materialga giperhavolalar orqali kirish mumkin.</p> <div data-bbox="443 1021 981 1406" style="text-align: center;">  <p>IRENA International Renewable Energy Agency</p> <p>Renewable Power Generation Costs in 2022</p> <p>This publication should be cited as: Citation: IRENA (2022), Renewable Power Generation Costs in 2022, International Renewable Energy Agency, Abu Dhabi.</p> <p>Contents</p> <p>Highlights</p> <p>Executive Summary</p> <p>1. Latest cost trends</p> <p>2. Onshore wind</p> <p>3. Solar PV</p> <p>4. Offshore wind</p> <p>5. Concentrating solar power</p> <p>6. Geothermal</p> <p>7. Small hydropower</p> <p>8. Bioenergy</p> </div>
Taklif qilinayotgan yechimni amaliy qo'llash imkoniyatlari:	<p>Mazkur ma'lumotlardan quyidagi amaliy muammolarni hal qilish uchun foydalanish mumkin:</p> <ul style="list-style-type: none"> • O'zbekistonda iqlim siyosati bo'yicha chora-tadbirlarni ishlab chiqish; • energiya samaradorligini oshirish va hududiy energetika tizimlarini rivojlantirish chora-tadbirlarini ishlab chiqish; • milliy, mintaqaviy va tarmoqlar bo'yicha ta'sirlarni yumshatish va moslashuv rejalarini ishlab chiqish; • investitsion rejalashtirish; • hududiy rivojlantirishni rejalashtirish.
Maqsadli auditoriya:	<ul style="list-style-type: none"> • markaziy davlat hokimiyati organlari; • mahalliy davlat hokimiyati organlari; • tadbirkorlik subyektlari; • ilmiy muassasalar; • loyihalash tashkilotlari.

6.2. ISITISH VA SOVITISH TEXNOLOGIYALARI UCHUN XARAJATLAR PROGNOZI

<p>Muammo:</p>	<p>Isitish va sovitish ta'minoti texnologiyalarini joriy etishni samarali rejalashtirish uchun qaror qabul qiluvchilar ushbu yechimlarni amalga oshirish xarajatlari to'g'risida ishonchli ma'lumotlarga ega bo'lishlari zarur.</p>																																																																																																																																																																																																																																																																																																																																																																					
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun JRC tomonidan ishlab chiqilgan ma'lumotlar bazasidan foydalanish tavsiya etiladi.</p>																																																																																																																																																																																																																																																																																																																																																																					
<p>Muammoning yechimi:</p>	<p>Bu ma'lumotlar bazasida 2050-yilgacha bo'lgan davrda asosiy isitish va sovitish texnologiyalarini joriy etish xarajatlari, shu jumladan operatsion xarajatlar va ekologik parametrlarni prognoz qiluvchi ma'lumotlar o'rin olgan.</p> <div data-bbox="1177 517 1366 745" style="text-align: right;">  <p>EXCEL FILE</p> </div>																																																																																																																																																																																																																																																																																																																																																																					
<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<p>Bu ma'lumotlar Excel faylida yig'ilgan, jadval ko'rinishidagi tegishli materialga giperhavolalar orqali kirish mumkin.</p> <div data-bbox="587 880 1238 1263" style="text-align: center;"> <p>4.1.2 Water tube boilers</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">UNIT</th> <th rowspan="2">2015</th> <th rowspan="2">2020</th> <th rowspan="2">2030</th> <th rowspan="2">2040</th> <th rowspan="2">2050</th> <th colspan="2">Uncertainty (2020)</th> <th colspan="2">Uncertainty (2050)</th> <th rowspan="2">Note</th> <th rowspan="2">Ref</th> </tr> <tr> <th>Lower</th> <th>Upper</th> <th>Lower</th> <th>Upper</th> </tr> </thead> <tbody> <tr> <td colspan="13">A. Energy/technical data</td> </tr> <tr> <td>Heat generation capacity</td> <td>MWh</td> <td>20</td> <td>250</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>A, 1, 2, 4,</td> </tr> <tr> <td>Total degree of utilization, nominal load</td> <td>%</td> <td>95</td> <td>95</td> <td>95</td> <td>95</td> <td>95</td> <td>90</td> <td>96</td> <td>92</td> <td>97</td> <td></td> <td></td> </tr> <tr> <td>Total degree of utilization, annual average</td> <td>%</td> <td>87</td> <td>87</td> <td>87</td> <td>87</td> <td>87</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>B, C</td> </tr> <tr> <td>Electricity consumption</td> <td>%</td> <td>0.5</td> <td>0.5</td> <td>0.4</td> <td>0.4</td> <td>0.4</td> <td>0.3</td> <td>0.7</td> <td>0.3</td> <td>0.7</td> <td></td> <td>D</td> </tr> <tr> <td>Technical lifetime</td> <td>years</td> <td>30</td> <td>30</td> <td>35</td> <td>35</td> <td>40</td> <td>30</td> <td>50</td> <td>30</td> <td>50</td> <td></td> <td></td> </tr> <tr> <td>Steam supply</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> </tr> <tr> <td>Hot water (up to 140°C)</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>(-)</td> <td>0</td> <td>(-)</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>Warm water (up to 100°C)</td> <td></td> <td>(0)</td> <td>(0)</td> <td>(0)</td> <td>(0)</td> <td>(0)</td> <td>(0)</td> <td>0</td> <td>(0)</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>Low temperature (up to 20°C)</td> <td></td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td></td> <td></td> </tr> <tr> <td colspan="13">B. Environmental data</td> </tr> <tr> <td>CO2</td> <td>g/MWh</td> <td>60</td> <td>60</td> <td>60</td> <td>60</td> <td>60</td> <td>30</td> <td>70</td> <td>30</td> <td>70</td> <td></td> <td>5, 6, 7</td> </tr> <tr> <td>NO2</td> <td>g/GWh</td> <td><</td> <td><</td> <td><</td> <td><</td> <td><</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NOx</td> <td>g/GWh</td> <td>20</td> <td>20</td> <td>18</td> <td>18</td> <td>15</td> <td>15</td> <td>50</td> <td>10</td> <td>40</td> <td></td> <td></td> </tr> <tr> <td>CH4</td> <td>g/GWh</td> <td><</td> <td><</td> <td><</td> <td><</td> <td><</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>H2O</td> <td>g/GWh</td> <td><</td> <td><</td> <td><</td> <td><</td> <td><</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Particels</td> <td>g/GWh</td> <td><</td> <td><</td> <td><</td> <td><</td> <td><</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="13">C. Financial data</td> </tr> <tr> <td>Quality of estimation</td> <td></td> <td colspan="10">medium</td> <td></td> <td></td> </tr> <tr> <td>Nominal investment</td> <td>M€/MWh</td> <td>0.1</td> <td>0.1</td> <td>0.1</td> <td>0.1</td> <td>0.1</td> <td>0.05</td> <td>0.12</td> <td>0.05</td> <td>0.12</td> <td></td> <td></td> </tr> <tr> <td>- of which equipment</td> <td>M€/MWh</td> <td>0.06</td> <td>0.06</td> <td>0.06</td> <td>0.06</td> <td>0.06</td> <td>0.03</td> <td>0.07</td> <td>0.03</td> <td>0.07</td> <td></td> <td></td> </tr> <tr> <td>- of which installation</td> <td>M€/MWh</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.02</td> <td>0.05</td> <td>0.02</td> <td>0.05</td> <td></td> <td></td> </tr> <tr> <td>Fixed O&M</td> <td>M€/MWh/a</td> <td>2</td> <td>2</td> <td>1.9</td> <td>1.9</td> <td>1.8</td> <td>1</td> <td>4</td> <td>1</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td>Variable O&M incl. electricity costs</td> <td>€/MWh</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.1</td> <td>0.5</td> <td>0.1</td> <td>0.5</td> <td></td> <td></td> </tr> <tr> <td colspan="13">D. Technology specific data</td> </tr> <tr> <td>Cost function (estimation)</td> <td>M€/MWh</td> <td colspan="10">Invest(x)=0.1*(1.155/x)^0.2</td> <td></td> <td>E</td> </tr> </tbody> </table> </div>		UNIT	2015	2020	2030	2040	2050	Uncertainty (2020)		Uncertainty (2050)		Note	Ref	Lower	Upper	Lower	Upper	A. Energy/technical data													Heat generation capacity	MWh	20	250									A, 1, 2, 4,	Total degree of utilization, nominal load	%	95	95	95	95	95	90	96	92	97			Total degree of utilization, annual average	%	87	87	87	87	87						B, C	Electricity consumption	%	0.5	0.5	0.4	0.4	0.4	0.3	0.7	0.3	0.7		D	Technical lifetime	years	30	30	35	35	40	30	50	30	50			Steam supply		-	-	-	-	-	-	-	-	-			Hot water (up to 140°C)		0	0	0	0	0	(-)	0	(-)	0			Warm water (up to 100°C)		(0)	(0)	(0)	(0)	(0)	(0)	0	(0)	0			Low temperature (up to 20°C)		+	+	+	+	+	+	+	+	+			B. Environmental data													CO2	g/MWh	60	60	60	60	60	30	70	30	70		5, 6, 7	NO2	g/GWh	<	<	<	<	<							NOx	g/GWh	20	20	18	18	15	15	50	10	40			CH4	g/GWh	<	<	<	<	<							H2O	g/GWh	<	<	<	<	<							Particels	g/GWh	<	<	<	<	<							C. Financial data													Quality of estimation		medium												Nominal investment	M€/MWh	0.1	0.1	0.1	0.1	0.1	0.05	0.12	0.05	0.12			- of which equipment	M€/MWh	0.06	0.06	0.06	0.06	0.06	0.03	0.07	0.03	0.07			- of which installation	M€/MWh	0.04	0.04	0.04	0.04	0.04	0.02	0.05	0.02	0.05			Fixed O&M	M€/MWh/a	2	2	1.9	1.9	1.8	1	4	1	5			Variable O&M incl. electricity costs	€/MWh	0.2	0.2	0.2	0.2	0.2	0.1	0.5	0.1	0.5			D. Technology specific data													Cost function (estimation)	M€/MWh	Invest(x)=0.1*(1.155/x)^0.2											E
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<p>Taklif qilinayotgan yechimni amaliy qo'llash imkoniyatlari:</p>	<p>Mazkur ma'lumotlardan quyidagi amaliy muammolarni hal qilish uchun foydalanish mumkin:</p> <ul style="list-style-type: none"> • O'zbekistonda iqlim siyosati bo'yicha chora-tadbirlarni ishlab chiqish; • energiya samaradorligini oshirish va hududiy energetika tizimlarini rivojlantirish chora-tadbirlarini ishlab chiqish; • milliy, mintaqaviy va tarmoqlar bo'yicha ta'sirlarni yumshatish va moslashuv rejalarini ishlab chiqish; • investitsion rejalashtirish; • hududiy rivojlantirishni rejalashtirish. 																																																																																																																																																																																																																																																																																																																																																																					
<p>Maqsadli auditoriya:</p>	<ul style="list-style-type: none"> • markaziy davlat hokimiyati organlari; • mahalliy davlat hokimiyati organlari; • tadbirkorlik subyektlari; • ilmiy muassasalar; • loyihalash tashkilotlari. 																																																																																																																																																																																																																																																																																																																																																																					

7. EKOLOGIK DEGRADATSIYA OQIBATLARIGA QARSHI KURASHISH BO'YICHA ILG'OR MILLIY TAJRIBALARGA NAMUNALAR


<p>Muammo:</p>	<p>Ekologik degradatsiyasining salbiy oqibatlarini samarali bartaraf etish uchun ushbu muammolarni hal qilishda xorijiy mamlakatlarning muvaffaqiyatli amaliyotlari to'g'risida yetarli ma'lumotlar mavjud emas.</p>																																
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun Tabiiy ofatlar xavf-xatarini pasaytirish bo'yicha boshqarmasi (UNDRR) tomonidan tayyorlangan ilg'or tajribalarning ma'lumotlar bazasidan foydalanish tavsiya etiladi.</p>																																
<p>Muammoning yechimi:</p>	<p>Ushbu ma'lumotlar bazasida ekologik degradatsiya oqibatlarini bartaraf etish bo'yicha ilg'or milliy tajribalar misollari, jumladan, turli mavzuli yo'nalishlar (o'simlikshunoslik, chorvachilik, tarmoq ilmiy-tadqiqot ishlarini qo'llab-quvvatlash, tarmoqlararo chora-tadbirlar, moliyaviy vositalar va boshqalar) o'rin olgan.</p>																																
<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<p>Ma'lumotlar Word faylida jamlangan, ular jadval ko'rinishida keltirilgan.</p> <div data-bbox="1241 669 1430 898" style="text-align: right;">  <p>DOC FILE</p> </div> <table border="1" data-bbox="699 987 1201 1323"> <caption>Примеры мероприятий с планированием адаптации и управлением рисками экологической деградации для различных секторов в соответствии с данными UNFCCC</caption> <thead> <tr> <th>Сфера</th> <th>Страна</th> <th>Программы, активности и мероприятия</th> <th>Описание</th> </tr> </thead> <tbody> <tr> <td>Планирование поддержки</td> <td>Австралия</td> <td>Enterprise Suitability Maps, Tasmania</td> <td>Инструмент онлайн-картографии, помогающий фермерам и инвесторам анализировать потенциальные сценарии урожая, помогает улучшить практикой выращивания таких сельскохозяйственных культур, как ячмень, пшеница, люцерна, ячмень и овес при различных климатических сценариях.</td> </tr> <tr> <td></td> <td>Канада</td> <td>Agriculture and Agri-Food Canada</td> <td>Департамент предоставляет данные, информацию, инструменты и модели для использования в сельскохозяйственном секторе, например, путем анализа изменения продуктивности земель и прогнозирования продуктивности сельскохозяйственных культур.</td> </tr> <tr> <td></td> <td>Япония</td> <td>Climate Change Adaptation Information Platform (A-PLAT)</td> <td>Набор результатов тематических исследований по адаптации по секторам, включая сельское хозяйство и водные ресурсы.</td> </tr> <tr> <td></td> <td>Латвия</td> <td>Latvian National Hydrometeorological and Climate Service (LEGMCS)</td> <td>Система, предоставляемая для мониторинга адаптации и изменения климата на национальном уровне, включая данные и показатели для измерения устойчивости различных секторов экономики, включая сельское и лесное хозяйство.</td> </tr> <tr> <td></td> <td>Люксембург</td> <td>National Adaptation Strategy on Climate Change</td> <td>Определяет цели и меры, относящиеся к сельскому хозяйству, включая меры, связанные со здоровьем почвы, защитой животного мира от жары и болезней, адаптацией растениеводства и управлением климатическими рисками посредством многоотраслевого страхования и политики развития сельских районов.</td> </tr> <tr> <td></td> <td>Норвегия</td> <td>Climatebranning</td> <td>Информационный веб-портал для поддержки заинтересованных сторон путем предоставления инструментов, тематических исследований и других материалов по адаптации в различных секторах.</td> </tr> <tr> <td>Водные ресурсы</td> <td>Канада</td> <td>Alberta TIER program</td> <td>Система регулирования технологических инноваций и</td> </tr> </tbody> </table>	Сфера	Страна	Программы, активности и мероприятия	Описание	Планирование поддержки	Австралия	Enterprise Suitability Maps, Tasmania	Инструмент онлайн-картографии, помогающий фермерам и инвесторам анализировать потенциальные сценарии урожая, помогает улучшить практикой выращивания таких сельскохозяйственных культур, как ячмень, пшеница, люцерна, ячмень и овес при различных климатических сценариях.		Канада	Agriculture and Agri-Food Canada	Департамент предоставляет данные, информацию, инструменты и модели для использования в сельскохозяйственном секторе, например, путем анализа изменения продуктивности земель и прогнозирования продуктивности сельскохозяйственных культур.		Япония	Climate Change Adaptation Information Platform (A-PLAT)	Набор результатов тематических исследований по адаптации по секторам, включая сельское хозяйство и водные ресурсы.		Латвия	Latvian National Hydrometeorological and Climate Service (LEGMCS)	Система, предоставляемая для мониторинга адаптации и изменения климата на национальном уровне, включая данные и показатели для измерения устойчивости различных секторов экономики, включая сельское и лесное хозяйство.		Люксембург	National Adaptation Strategy on Climate Change	Определяет цели и меры, относящиеся к сельскому хозяйству, включая меры, связанные со здоровьем почвы, защитой животного мира от жары и болезней, адаптацией растениеводства и управлением климатическими рисками посредством многоотраслевого страхования и политики развития сельских районов.		Норвегия	Climatebranning	Информационный веб-портал для поддержки заинтересованных сторон путем предоставления инструментов, тематических исследований и других материалов по адаптации в различных секторах.	Водные ресурсы	Канада	Alberta TIER program	Система регулирования технологических инноваций и
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Водные ресурсы	Канада	Alberta TIER program	Система регулирования технологических инноваций и																														
<p>Taklif qilinayotgan yechimni amaliy qo'llash imkoniyatlari:</p>	<p>Mazkur ma'lumotlardan quyidagi amaliy muammolarni hal qilishda foydalanish mumkin:</p> <ul style="list-style-type: none"> • O'zbekistonda iqlim siyosati bo'yicha chora-tadbirlarni ishlab chiqish; • iqlim o'zgarishi va ekologik degradatsiya oqibatlariga qarshi kurashish bo'yicha chora-tadbirlarni ishlab chiqish; • milliy, hududiy va tarmoq moslashuv rejalarini ishlab chiqish; • yerdan foydalanish va chorvachilik texnologiyasini takomillashtirish; • investitsion rejalashtirish; • hududiy rivojlantirishni rejalashtirish. 																																
<p>Maqsadli auditoriya:</p>	<ul style="list-style-type: none"> • markaziy davlat hokimiyati organlari; • mahalliy davlat hokimiyati organlari; • qishloq xo'jaligi ishlab chiqaruvchilari, shu yo'nalishdagi uyushmalar; • moliyaviy va sug'urta muassasalari; • ilmiy muassasalar; • loyihalash tashkilotlari. 																																

8. INTELLEKTUAL TEXNOLOGIYALARNI JORIY QILISH BO'YICHA ILG'OR MILLIY TAJRIBALARGA MISOLLAR


8.1. BOZORDA MAVJUD BIM MAHSULOTLARNING MA'LUMOTLAR BAZASI

<p>Muammo:</p>	<p>Ekologik degradatsiya oqibatlariga qarshi kurashish uchun zamonaviy yechimlarni amalga oshirish zamonaviy loyihalash usullaridan foydalanishni talab qiladi. Biroq O'zbekistondagi manfaatdor tomonlar vakillari zamonaviy BIM yechimlar haqida yetarli ma'lumotga ega emaslar.</p>																																																																								
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun jahon bozorida ham, MDH mintaqaviy bozorida ham mavjud bo'lgan BIM mahsulotlarining ma'lumotlar bazasidan foydalanish tavsiya etiladi.</p>																																																																								
<p>Muammoning yechimi:</p>	<p>Bu ma'lumotlar bazasida BIM dasturiy ta'minotining bir necha yuzlab obyektlari, ko'rsatilgan dasturiy ta'minotni qo'llash sohalari va ularning o'zaro almashinuvi haqida ma'lumotlar mavjud.</p>																																																																								
<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<p>Bu ma'lumotlar Excel faylida yig'ilgan, jadval ko'rinishidagi tegishli materialga giperhavolalar orqali kirish mumkin.</p> <div style="text-align: right; margin-bottom: 10px;">  </div> <table border="1" data-bbox="496 1122 1321 1373"> <caption>Ключевые продукты на мировом рынке BIM-решений и сферы их применения</caption> <thead> <tr> <th>Provider/ Product</th> <th>Example Product Names</th> <th>Arch</th> <th>Civil</th> <th>MEP</th> <th>Plant</th> <th>Struct</th> <th>BIM Construct</th> <th>BIM Operate</th> </tr> </thead> <tbody> <tr> <td>20-20 Technologies</td> <td>Professional: 20-20 Design, 20-20 Fusion, 20-20 Cap, 20-20 Glia, 20-20 Virtual Impression, 20-20 Office Retail: Ideal Space, Virtual Planner, Kopia</td> <td>x</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Accruent</td> <td>FAMES, 360 Facility, FAMES 360</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>x</td> </tr> <tr> <td>Auite</td> <td>Workspace, Project workflow, Collaborative BIM, Adoddle</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>x</td> <td>x</td> </tr> <tr> <td>AssetWorks</td> <td>EAM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>x</td> </tr> <tr> <td>Autodesk/ ADISK AutoCAD LT</td> <td>ADISK AutoCAD LT (Just related to AEC) ADISK AutoCAD LT (Just related to MFG)</td> <td>x</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Autodesk/ ADISK AutoCAD Platform</td> <td>ADISK AutoCAD Platform (Just related to AEC - Inc: Plant & GIS) ADISK AutoCAD Platform (Just related to MFG - Inc: CAD & ET)</td> <td>x</td> <td></td> <td>x</td> <td>x</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Autodesk/ ADISK Building</td> <td>BIM 360, Revit Building, Revit Series, Revit Architecture, AutoCAD Revit Architecture Suite, ADT, Autodesk Architectural Desktop, AutoCAD Architecture (until 'One AutoCAD'), Revit Structure, AutoCAD Revit Structure Suite (until 'One AutoCAD'), Buzzsaw, Constructware, Navisworks, Robobat products</td> <td>x</td> <td></td> <td>x</td> <td></td> <td>x</td> <td>x</td> <td></td> </tr> </tbody> </table>	Provider/ Product	Example Product Names	Arch	Civil	MEP	Plant	Struct	BIM Construct	BIM Operate	20-20 Technologies	Professional: 20-20 Design, 20-20 Fusion, 20-20 Cap, 20-20 Glia, 20-20 Virtual Impression, 20-20 Office Retail: Ideal Space, Virtual Planner, Kopia	x							Accruent	FAMES, 360 Facility, FAMES 360							x	Auite	Workspace, Project workflow, Collaborative BIM, Adoddle						x	x	AssetWorks	EAM							x	Autodesk/ ADISK AutoCAD LT	ADISK AutoCAD LT (Just related to AEC) ADISK AutoCAD LT (Just related to MFG)	x							Autodesk/ ADISK AutoCAD Platform	ADISK AutoCAD Platform (Just related to AEC - Inc: Plant & GIS) ADISK AutoCAD Platform (Just related to MFG - Inc: CAD & ET)	x		x	x				Autodesk/ ADISK Building	BIM 360, Revit Building, Revit Series, Revit Architecture, AutoCAD Revit Architecture Suite, ADT, Autodesk Architectural Desktop, AutoCAD Architecture (until 'One AutoCAD'), Revit Structure, AutoCAD Revit Structure Suite (until 'One AutoCAD'), Buzzsaw, Constructware, Navisworks, Robobat products	x		x		x	x	
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8.2. YECHIMLARNI TATBIQ QILISH BO'YICHA SMART CITY KEYSLARI BAZASI

<p>Muammo:</p>	<p>Ekologik degradatsiya oqibatlariga qarshi kurashish uchun zamonaviy yechimlarni amalga oshirish aqlli infratuzilma sohasida zamonaviy raqamli yechimlardan foydalanishni talab qiladi. Biroq O'zbekistondagi manfaatdor tomonlar vakillari aqlli yechimlarni joriy etishning muvaffaqiyatli misollari haqida yetarli ma'lumotga ega emaslar.</p>																								
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun yechimlarni tatbiq qilishda muvaffaqiyatli loyihalar bo'yicha Smart City keyslar bazasidan foydalanish tavsiya etiladi.</p>																								
<p>Muammoning yechimi:</p>	<p>Bu keyslar bazasida turli sohalarda (shu jumladan atrof-muhitni muhofaza qilish) va turli darajadagi (shahar-tuman-binolar) "Smart City" yechimlarini joriy etish bo'yicha amalga oshirilgan muvaffaqiyatli loyihalar to'g'risidagi ma'lumotlar o'rin olgan.</p> <div data-bbox="1254 568 1441 792" style="text-align: right;">  <p>DOC FILE</p> </div>																								
<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<p>Ma'lumotlar Word faylida jamlangan, ular jadval ko'rinishida keltirilgan.</p> <div data-bbox="517 875 1374 1272" style="text-align: center;"> <p>База реализованных проектов в сфере Smart City</p> <table border="1"> <thead> <tr> <th>Проект</th> <th>Уровень решения</th> <th>Область</th> <th>Описание проекта</th> <th>Город</th> <th>Страна</th> </tr> </thead> <tbody> <tr> <td>30-Day Challenge towards Sustainable Development</td> <td>Умный город</td> <td>Жители</td> <td>Для обеспечения устойчивого развития города, с целью содействия переходу граждан Терезины к более устойчивому образу жизни в рамках программы Teresina 2030 объявлена задача "30 дней на пути к устойчивому развитию" с простыми мероприятиями, которые люди могли бы легко включить в свой распорядок дня. В качестве благодарности, в честь каждого участника в городе было посажено дерево.</td> <td>Терезина</td> <td>Бразилия</td> </tr> <tr> <td>3D Real-time SmartCity Visualisation</td> <td>Умный город</td> <td>Умное управление</td> <td>Трёхмерная визуализация городской территории для представления планов будущего развития города, а также для визуализации динамических городских данных.</td> <td>Мачонгжен</td> <td>Китай</td> </tr> <tr> <td>Aco Recycling B-1 Smart Reverse Vending Machine</td> <td>Умный город</td> <td>Окружающая среда</td> <td>Aco Recycling B-1 Smart Reverse Vending Machine - инновационное решения для сбора и переработки пустых емкостей от напитков с системой поощрения. Аппараты предназначены для сбора и хранения различного вида мусора, полученного непосредственно от потребителей (пластиковые и стеклянные бутылки, алюминиевые банки от напитков). Предусмотрена система поощрений потребителей за собранный мусор (скидки, платежи на счет мобильного телефона, выплаты наличными и др.). Конкретный тип системы поощрений устанавливается владельцем аппарата. Аппараты оснащены датчиками, позволяющими удаленно контролировать уровни наполнения каждого аппарата, объем каждого типа мусора, хранящегося в аппарате, отслеживать последние транзакции. Система управления позволяет отслеживать местоположение аппаратов, удаленно включать/отключать аппарат, а также предоставляет подробную статистику и отчетность.</td> <td>Денизли</td> <td>Турция</td> </tr> </tbody> </table> </div>	Проект	Уровень решения	Область	Описание проекта	Город	Страна	30-Day Challenge towards Sustainable Development	Умный город	Жители	Для обеспечения устойчивого развития города, с целью содействия переходу граждан Терезины к более устойчивому образу жизни в рамках программы Teresina 2030 объявлена задача "30 дней на пути к устойчивому развитию" с простыми мероприятиями, которые люди могли бы легко включить в свой распорядок дня. В качестве благодарности, в честь каждого участника в городе было посажено дерево.	Терезина	Бразилия	3D Real-time SmartCity Visualisation	Умный город	Умное управление	Трёхмерная визуализация городской территории для представления планов будущего развития города, а также для визуализации динамических городских данных.	Мачонгжен	Китай	Aco Recycling B-1 Smart Reverse Vending Machine	Умный город	Окружающая среда	Aco Recycling B-1 Smart Reverse Vending Machine - инновационное решения для сбора и переработки пустых емкостей от напитков с системой поощрения. Аппараты предназначены для сбора и хранения различного вида мусора, полученного непосредственно от потребителей (пластиковые и стеклянные бутылки, алюминиевые банки от напитков). Предусмотрена система поощрений потребителей за собранный мусор (скидки, платежи на счет мобильного телефона, выплаты наличными и др.). Конкретный тип системы поощрений устанавливается владельцем аппарата. Аппараты оснащены датчиками, позволяющими удаленно контролировать уровни наполнения каждого аппарата, объем каждого типа мусора, хранящегося в аппарате, отслеживать последние транзакции. Система управления позволяет отслеживать местоположение аппаратов, удаленно включать/отключать аппарат, а также предоставляет подробную статистику и отчетность.	Денизли	Турция
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8.3. SUN'IY INTELLEKT (AI) SOHASIDA YECHIMLARNI TATBIQ QILISH KEYSLARI BAZASI

<p>Muammo:</p>	<p>Ekologik degradatsiya oqibatlariga qarshi kurashish uchun zamonaviy yechimlarni joriy etishning hozirgi tendentsiyasi sun'iy intellekt (AI) vositalaridan foydalanish hisoblanadi. Biroq O'zbekistondagi manfaatdor tomonlar vakillari bunday yechimlarni joriy etishning muvaffaqiyatli misollari haqida yetarli ma'lumotga ega emaslar.</p>																																																																																																																																																																																																																																																																																																																																																																																																																																								
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun yechimlarni tatbiq qilishda muvaffaqiyatli loyihalar bo'yicha sun'iy intellektning keyslar bazasidan foydalanish tavsiya etiladi.</p>																																																																																																																																																																																																																																																																																																																																																																																																																																								
<p>Muammoning yechimi:</p>	<p>Bu keyslar bazasida turli sohalarda (shu jumladan, atrof-muhitni muhofaza qilish, energetika, sog'liqni saqlash va suv xo'jaligi) sun'iy intellekt yechimlarini joriy etish bo'yicha muvaffaqiyatli loyihalar to'g'risidagi ma'lumotlar o'rin olgan.</p> <div data-bbox="1220 548 1412 772" style="float: right; border: 1px solid green; padding: 5px; text-align: center;">  <p>EXCEL FILE</p> </div>																																																																																																																																																																																																																																																																																																																																																																																																																																								
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215	Intelligence - mapping the edge of rainfall	https://www.intelligence.com.au/	The National Intelligence System (NIS) is a key document for the Australian Government, outlining the government's approach to intelligence	2015	2020	National	Australia	Department of Intelligence	Government	Intelligence and security	Intelligence and security	Implemented	2015	2020	Learning	Computer vision																																																																																																																																																																																																																																																																																																																																																																																																																									
287	Intelligence - mapping the edge of rainfall	https://www.intelligence.com.au/	The National Intelligence System (NIS) is a key document for the Australian Government, outlining the government's approach to intelligence	2015	2020	National	Australia	Department of Intelligence	Government	Intelligence and security	Intelligence and security	Implemented	2015	2020	Learning	Automated reason																																																																																																																																																																																																																																																																																																																																																																																																																									
300	Intelligence - mapping the edge of rainfall	https://www.intelligence.com.au/	The National Intelligence System (NIS) is a key document for the Australian Government, outlining the government's approach to intelligence	2015	2020	National	Australia	Department of Intelligence	Government	Intelligence and security	Intelligence and security	Implemented	2015	2020	Learning	Optimization																																																																																																																																																																																																																																																																																																																																																																																																																									
341	Intelligence - mapping the edge of rainfall	https://www.intelligence.com.au/	The National Intelligence System (NIS) is a key document for the Australian Government, outlining the government's approach to intelligence	2015	2020	National	Australia	Department of Intelligence	Government	Intelligence and security	Intelligence and security	Implemented	2015	2020	Learning	Computer vision																																																																																																																																																																																																																																																																																																																																																																																																																									
347	Intelligence - mapping the edge of rainfall	https://www.intelligence.com.au/	The National Intelligence System (NIS) is a key document for the Australian Government, outlining the government's approach to intelligence	2015	2020	National	Australia	Department of Intelligence	Government	Intelligence and security	Intelligence and security	Implemented	2015	2020	Learning	Computer vision																																																																																																																																																																																																																																																																																																																																																																																																																									
348	Intelligence - mapping the edge of rainfall	https://www.intelligence.com.au/	The National Intelligence System (NIS) is a key document for the Australian Government, outlining the government's approach to intelligence	2015	2020	National	Australia	Department of Intelligence	Government	Intelligence and security	Intelligence and security	Implemented	2015	2020	Learning	Computer vision																																																																																																																																																																																																																																																																																																																																																																																																																									
350	Intelligence - mapping the edge of rainfall	https://www.intelligence.com.au/	The National Intelligence System (NIS) is a key document for the Australian Government, outlining the government's approach to intelligence	2015	2020	National	Australia	Department of Intelligence	Government	Intelligence and security	Intelligence and security	Implemented	2015	2020	Learning	Computer vision																																																																																																																																																																																																																																																																																																																																																																																																																									
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8.3. “YASHIL” LOYIHALARNI AMALGA OSHIRISH UCHUN MOLIVAVIY MABLA'LARNI JALB QILISH BO'YICHA TAVSIYALAR

<p>Muammo:</p>	<p>O'zbekiston oldidagi dolzarb vazifa qishloq xo'jaligi hududlarida ekologik degradatsiya oqibatlariga qarshi kurashish bo'yicha loyihalarni amalga oshirish uchun resurslarni jalb qilishdan iborat. Hozirgi vaqtda resurslarni jalb qilish bo'yicha mavjud imkoniyatlardan to'liq foydalanilmayapti.</p>																																																																																																																																																																																																																																										
<p>Qo'llaniladigan yondashuv:</p>	<p>Ushbu muammoni hal qilish uchun O'zbekiston uchun ochiq bo'lgan xorijiy moliyalashtirish manbalari bo'yicha ma'lumotlar bazasidan foydalanish tavsiya etiladi.</p>																																																																																																																																																																																																																																										
<p>Muammoning yechimi:</p>	<p>Mazkur ma'lumotlar bazasi turli sohalardagi loyihalarni amalga oshirish uchun turli formatdagi (grantlar, kreditlar, kafolat va sug'urta vositalari) resurslarni taqdim etuvchi o'nlab xorijiy fondlar to'g'risidagi ma'lumotlarni o'z ichiga oladi. Unda mavjud moliyalashtirish miqdori, loyiha arizalariga qo'yiladigan talablar va boshqa ma'lumotlar to'g'risidagi ma'lumotlar jamlangan.</p>																																																																																																																																																																																																																																										
<p>Taklif etilayotgan yechimning tasviriy ko'rinishi va interfeysi:</p>	<p>Bu ma'lumotlar Excel faylida jamlangan, ular jadval ko'rinishida keltiriladi.</p> <div style="text-align: right; margin-bottom: 10px;">  </div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th rowspan="2">Fund</th> <th colspan="8">Eligible Regions</th> <th colspan="3">Climate Objective</th> <th colspan="8">Sectors and Themes</th> </tr> <tr> <th>Europe and Central Asia</th> <th>East Asia and Pacific</th> <th>South Asia</th> <th>Middle East and North Africa</th> <th>Sub-Saharan Africa</th> <th>North America</th> <th>Latin America and the Caribbean</th> <th>Adaptation</th> <th>Mitigation</th> <th>Cross-cutting</th> <th>Energy</th> <th>Agriculture</th> <th>Transport</th> <th>Water</th> <th>Waste Management</th> <th>Industry and Infrastructure</th> <th>Forestry and Land Use</th> <th>Nature-based Solutions and Ecosystem Restoration</th> <th>Oceans and Coasts</th> <th>Disaster Risk Reduction</th> <th>Rural Development</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td>ASCAN Catalysts Green Finance Facility (ACGF)</td> <td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Climate Innovation and Development Fund (partnership with Bloomberg Family Foundation Inc. and the Goldman Sachs Charitable Foundation)</td> <td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td> </tr> <tr> <td>OP/AF Energy Access and Transition Trust Fund (OP/ATF)</td> <td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td> </tr> <tr> <td>Africa50 Infrastructure Acceleration Fund (IAF)</td> <td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>U.S. International Development Finance Corporation (DFC)</td> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Australian Climate Finance Partnership (ACFP)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td> </tr> <tr> <td>Ireland Trust Fund for Building Climate Change and Disaster Resilience in Small Island Developing States (BCCDR)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td> </tr> <tr> <td>Netherlands Trust Fund under WFP (WFP-NB-1)</td> <td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td> </tr> </tbody> </table>	Fund	Eligible Regions								Climate Objective			Sectors and Themes								Europe and Central Asia	East Asia and Pacific	South Asia	Middle East and North Africa	Sub-Saharan Africa	North America	Latin America and the Caribbean	Adaptation	Mitigation	Cross-cutting	Energy	Agriculture	Transport	Water	Waste Management	Industry and Infrastructure	Forestry and Land Use	Nature-based Solutions and Ecosystem Restoration	Oceans and Coasts	Disaster Risk Reduction	Rural Development	Other	ASCAN Catalysts Green Finance Facility (ACGF)	X	X						X	X		X			X	X									Climate Innovation and Development Fund (partnership with Bloomberg Family Foundation Inc. and the Goldman Sachs Charitable Foundation)	X	X						X	X		X	X	X	X	X		X						X	OP/AF Energy Access and Transition Trust Fund (OP/ATF)	X	X						X	X		X												X	Africa50 Infrastructure Acceleration Fund (IAF)			X	X						X	X	X			X									U.S. International Development Finance Corporation (DFC)	X	X	X	X	X	X				X	X	X			X									Australian Climate Finance Partnership (ACFP)								X	X		X	X	X	X	X								X	Ireland Trust Fund for Building Climate Change and Disaster Resilience in Small Island Developing States (BCCDR)								X															X	Netherlands Trust Fund under WFP (WFP-NB-1)	X	X						X					X	X	X	X	X						X
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oqibatlarini bartaraf etish bo'yicha ilg'or
xorijiy tajribalarni hamda ushbu
amaliyotlarni O'zbekistonda joriy etish
bo'yicha tavsiyalar**

USLUBIY QO'LLANMA

Muharrir U.Rajabova
Dizayner-sahifalovchi A.Yuldasheva

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Toshkent sh. Foziltepa ko'ch., 12-B uy.

