





Introduction to the project: objectives, implemented activities

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Project summary

Within the framework of EU4Environment's "Circular Economy and New Development Opportunities" program, the United Nations Industrial Development Organization (UNIDO) and its National Executive Partner ACE Group Consultants, the Ministry of Economy, the Ministry of Ecology and Natural Resources and KOBIA have been working in Azerbaijan for the past 3 years. Measures were taken to expand, and institutionalize the practice of "Increasing Resource Efficient and Cleaner Production and eco-innovation measures" (RECP) among small and medium-sized enterprises (SMEs), and identify opportunities that can support the creation of circular value chains through industrial waste maps.















UNIDO "Resource Efficient and Cleaner Production" project actions carried out within the framework



Measure 1
Administration,
networking and
institutionalization



Measure 2
RECP clubs and industry demonstrations



Measure 3
Circular
economy and
waste maps



Measure 4
Awareness and knowledge management















Main activities of the project



















Covering the period May 2021 - January 2023 Phase I ACTIVITIES

- Preliminary Report
- First interim report
- Second interim report

Preliminary Report (6 months) (May-October 2021)

- A detailed list of promotional activities and companies, and establishing contact with training participants within these activities
- Updating the set of documents intended for RECP Clubs and presentation of the master plan for two clubs

First Interim Report (9 months) (November 2021-July 2022)

- Attracting 15 industrial enterprises to the demonstration component.
- Creation of 2 RECP clubs and involvement of 16-20 industrial enterprises in those clubs
- Selection of trainers and organization of trainings for them
- Organization of preliminary visits to enterprises
- Evaluation of technological processes of enterprises during the visit, preparation of technical reports

Second Interim Report (6 months) (August 2022-January 2023)

- Holding two CE events for national experts on current Circular Economy (CE)-related practices
- Preparation of the action plan for the promotion and implementation of the prepared Waste maps together with the interested parties
- Organization of further visits to enterprises
- Organization of monitoring visits to 8 enterprises under the EaP Green project
- Conducting 6 trainings for club members
- Including recommendations for businesses
- preparation of "business case" reports















Covering the period of May 2021 - January 2023

Networking, Promotional Affairs Involvement of enterprises, creation of clubs, Trainings Preparation of Waste Map, Evaluation, Recommendations















Phase II ACTIVITIES covering the period of February 2023 - May 2024

- Third Interim Report
- Final Report

Third Interim Report (7 months)

(February - August 2023)

- Report on the Institutionalization of RECP methodology in Azerbaijan
- Individual final reports on 6 newly involved enterprises
- Organization of visits to new enterprises, preparation of reports
- Final Management and technical reports on clubs
- Circular Economy (CE) event, report on CE experts and experiences

Final Report (5 months)

(September 2023 – May 2024)

- Organization of monitoring visits to 35 enterprises
- Technical reports based on the monitoring visits
- Cooperation with UNEC and other universities on inclusion of RECP in the subject curricula related to green economy
- Preparation of business plans/training
- Final Conference
- Final Report















Phase II activities covering the period of February 2023 – May 2024



Monitoring, business plan, final conference (providing certificates)



Involvement of new enterprises, preparation of reports on clubs













WORKS COMPLETED / TO BE COMPLETED









- A total of 36 enterprises were involved in the project, among them:
 - a) 15 industrial enterprises are involved in the Demonstration component
 - b) 21 industrial enterprises are involved in 2 RECP clubs
- Trainings were held on the application of RECP methodology to each enterprise
- Several visits were organized and technological processes of enterprises were evaluated
- Individual technical evaluation reports and business case reports were prepared
- A report and action plan on waste mapping was prepared, and training was held on the preparation of a business plan
- Business plans have been prepared
- Monitoring visits have been organized, monitoring reports are currently being prepared
- Signing of the Memorandum of Cooperation between UNEC and ACE Group Consultants (signed on March 15, 2024)







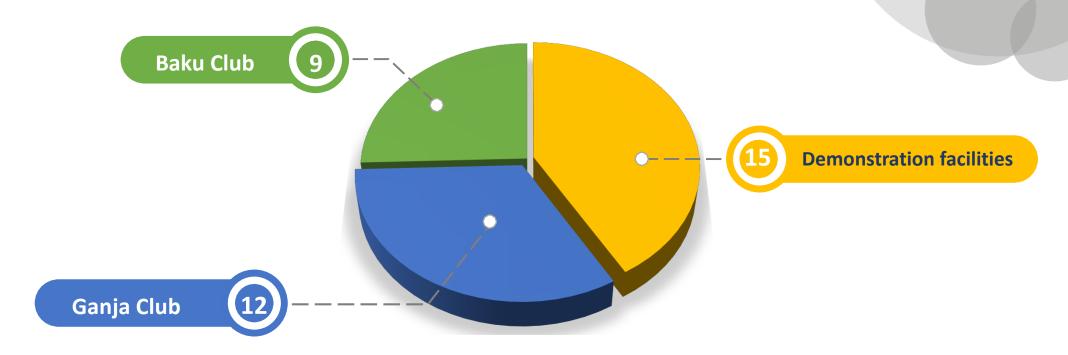








36 enterprises applying RECP methodology in Azerbaijan

















Enterprises involved in the Demonstration component of the project (phase 1)

Nº	Name of the Organization	Fəaliyyət növü	
1.	Lachin-1 MMC	Cement production	
2.	Baku Textile Factory	Textile production	
3.	Alliance Textile	Textile production	
4.	Betex Textile	Textile production	
5.	Bliss Group	Mattress production	
6.	NORM	Cement production	
7.	Elastik MMC	Rubber products	
8.	AzerAluminium	Aluminum metallurgy	
9.	Shamxal-86	Concrete workshop	















Organization of visits to enterprises

#	Enterprise	Photos and Videos - Link			
1.	Bliss Group	https://mega.nz/folder/tu5zVC4T#UpDrqKM9j6BPh290eBOJKA			
2.	Alyans Textile	https://mega.nz/folder/589mwBrL#JzuOYG-JqXQx a9YLCptEw			
3.	Elastik LLC	https://mega.nz/folder/1uZkmI5A#PtMsD4g85TLiBGYlrEwtHw			
4.	Shamxal – 86	https://mega.nz/folder/16xk2ASK#Yt1jtmiZGrrTfrw978InBw			
5.	Lachin-1 LLC	https://mega.nz/folder/suQAETjD#a1e-9TTfk8hmLcXiZrp7PA			
6.	Baku Textile Factory	https://mega.nz/folder/hnp0Xawa#jeZAq7w9H5b0hEhO6YRxiw			
7.	AzerAluminum LLC	https://mega.nz/folder/F9MQXL6Q#n-janHGVtT3XWUTKnhcuRA			
8.	NORM LLC	https://mega.nz/folder/14FzDAoT#UWcJa94Ls-qKOvaeW9ESKQ			
9.	Betex Textile	https://mega.nz/folder/YnwUnRwZ#afxXb4rFQyO0XNMZ6LbttA			















Enterprises involved in the Demonstration component of the project (phase 2)

Nº	Name of the Enterprise	Type of activity
10.	Caspian Cable Systems	Production of low voltage cables
11.	Helind Energy	Electricity products production
12.	Azerfloat	Glass production
13.	UnicoProduction	Furniture production
14.	Green Blue	Waste recycling
15.	Rotvest Safety Uniform	Textile production















Organization of visits to enterprises

#	Enterprise	Photos and Videos - Link
1.	Rortvest Safety Uniform LLC	https://mega.nz/folder/Eg1FBA7A#5yitcLLCveKQcMC0mJrlcQ
2.	Azerfloat LLC	https://mega.nz/folder/1nw3AJZQ#5dqldvzvvEziWYSdSn-ibw
3.	Caspian Cable Systems	https://mega.nz/folder/R1tGWQJR#kutTr-zoSfeL7qZw00RfxQ
4.	Helind Energy	https://mega.nz/folder/Bxdi3D7T#I7pANvrChaLhzHyS3NZlnw















Opportunities created for project participants

- The ability to set priorities to improve the efficiency of using resources in the enterprise
- Providing training to the company's employees on UNIDO's RECP methodology
- Identifying deficiencies in technological processes and proposing RECP measures and preparing recommendations.







Action implemented by:

















Additional opportunities

- Organization of at least 4 meetings with the international team of trainers in the format of individual consultation
- Ability to prepare for national de-carbonization legislation
- O Development of a business model for the implementation of a specific RECP measure selected by the enterprise based on the required technological and economic resources (Elastic LLC and Azerfloat OSJC)





Action implemented by:

















Lack of awareness of enterprises regarding RECP

(accordingly, MIT spends a relatively large amount of time on educational work on RECP)

Difficulties in allocating appropriate personnel for the project in enterprises Relatively low costs of utility services

























Challenges Encountered - Enterprises Involved









- Gaps in data collection and recording in small and medium enterprises
- Failure to provide information on time by the enterprise
- Employment of a designated enterprise representative for the project
- Change of business owner
- Termination of the enterprise
- Uncertainty regarding access to financial resources and access to new markets
- Delay in adoption of relevant legislation















Composition of RECP teams and role of participants

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 7	Group 8	Group 9
Trainers/	-Alizade	- Ismayilova	-Valeh	-Laman	-Alizade	-Salimova	-Tofig	-Rena
Experts	Rana	Gulgaz	Nasibov	Hasanova	Rana	Afag	Hasanov	Alizada
	-Huseynli	- Gafarov	-Vasif	-Shahriyar	-Valeh	-Elshan	-Jahangir	-Afag
	Ramin	Ruslan	Hasanov	Mustafayev	Nasibov	Sultanov	Afandiyev	Salimova
		- Mirzayeva					-Valeh	
		Gulnar					Nasibov	
Enterprises	LACHIN 1 LLC	BAKU TEXTILE	BLISS GROUP	ELASTIK LLC	NORM LLC	BETEX	CASPIAN	UNIPRO LLC
		FACTORY LLC	LLC			TEXTILE LLC	CABLE	
	NORM LLC			SHAMKHAL-86	AZERALUMINI		SYSTEMS	RORTVEST
		ALYANS	AZERALUMINI	LLC	UM LLC			SAFETY
		TEXTILE	UM LLC				HELIND	UNIFORM
				GREENBLUE LLC	AZERFLOAT		ENERGY	













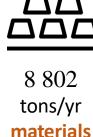


Saving budget funds - demonstration companies

Enterprise













77,6 tons/yr CO₂ emission



1 466 285 EUR/yr cost saving



2 480 630 **EUR** savings

RECP event















Establishment of RECP Clubs



Azerbaijan State University of Economics (UNEC) was established under the Nizami Ganjavi Center for Sustainable Development and Green Economy Research (NG DİYİT)



It was created under the Center for Sustainable Smart Cities and Regions named after Nizami Ganjavi in the Department of Innovations of Ganja State University.

Note: Several activities of RECP are included in the Regulations of both Centers















Members of the Baku Club

1	"Universal Construction Engineering and Supply" CJSC	Industrial construction	Construction materials	Zamina Babayeva	Business Development Manager
2	"M&T LTD" Firm	Production	Food and beverage	Azade Rzayeva	Head Management System
3	"Mahmud-Topchu K" LLC	Manufacturing	Production of polystyrene	Eldar Topchuyev	Director
4	"A+CO" OJSC	Production	Aerated water and beverages	Ruslan Baghirov	Head of alcoholic and non-alcoholic production
5	"Carlsberg Azerbaijan" LLC	Production	Alchoholic drinks	Lala Afandi	Head of Corporate Affairs
6	"Veliev" LLC	Manufacturing	Polymer products	Ibrahim Majidli	Quality Manager
7	"Gilan Textile Park" LLC	Manufacturing	Textile	Shargiya Gozalova	Chief accountant
8	"Fire Safety Caspian Azerbaijan" LLC	Production	Fire extinguisher	Anver Mursakulov	Director
9	"C.Q. Partners" LLC	Production	Concret	Anar Suleymanov	Deputy Director















Members of the Ganja Club

#	Company	Manager	Address	
1	Gizil Eller LLC	Zenfira Aghayeva Huseyn	Ganja city, Nariman Narimanov, 123	
2	"ABADLIQ" Construction Materials Manufacturing Firm	Elman Heydarov	Ganja city, Abbas Sahhat street, 74	
3	"Zaferoglu elektrik" Limited Liability Company	rferoglu elektrik" Subhan Hasanov Gani		
4	Az-Eco Product LLC	Ruhlan Chobanov	Ganjavi str., 135, Ganja city, AZ2007	
5	"Hicranoglu" LLC	Ibrahim Mammadov	Dada Gorgud str., 34, apt. 5, Ganja city, AZ2011	
6	Ganja Textile OJSC	Qabil Aliyev	Ganja city, AZ2001, Sh.I.Khatai, 64	
7	"NB Ceramic" LLC	Anar Mammadov	Ganja city, right side of Ganja-Gazakh highway	
8	Ganja Sharab 2 OJSC	b 2 OJSC Saleh Babazadeh Nadir Ganja city, Kapaz district, Kanar str		
9	Ganja Cihazqayirma Zavodu OJSC	Ayat Baghiyev	Ganja city, H.Aliyev ave., 121	
10	Semsan LLC	Samir Heydarov	Ganja city, Zolfi Hajiyev, 48	
11	Sempa LLC	Samir Heydarov		
12	"Technosteel-G"	Orkhan Huseynov	Ganja city, Zolfi Hajiyev, 48	















Saving budget funds – RECP Clubs

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Enterprise

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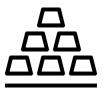
RECP event



304 595 kWh/yr energy



m3/yr water



51 358 tons/yr

tons/yr materials



% waste



347 040

tons/yr

emission



692 429

EUR/yr cost saving



1 585 202

EUR

investment



















MEMORANDUM OF COOPERATION between UNEC and ACE Group Consultants (March 15, 2024)

This Memorandum was signed for strengthening University-Industry Cooperation, as well as for sharing modern knowledge and experiences of the EU4Environment program aimed at resource efficiency, cleaner production (RECP) and circular economy through transition to green economy for achieving sustainable development in the Republic of Azerbaijan, for joint training, preparation of educational programs, textbooks, and implementation of local and international projects.



















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