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## EU4Environment Action: RECP component Resource efficiency: green solutions for sustainable business in Armenia

### NATIONAL CONFERENCE

### Results of EaP Green SME Monitoring

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8 may, 2024

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## Resource Efficient and Cleaner Production implementation

(Monitoring report of EaP Green post-implementation)

1. "Agricultural Association Lukashin" Consumer Cooperative-Armavir region
2. "Ashtarak Dzoo" LLC- Ashtarak region
3. "ELBAT" CJSC – Yerevan
4. "GALIK" LLC - Ararat region
5. Araratchanshin - Ararat region
6. Lusiafood - Lori region
7. RozFrood –Lori region
8. Kavashen LLC – Ararat region
9. Sam Har LLC\_ - Kotayq region
10. Arminashogh LLC - Ararat region

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## "Agricultural Association Lukashin" Consumer Cooperative - Armavir region

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"Agricultural Association Lukashin" Consumer Cooperative was founded in 1995 as a community-based small enterprise (SME) of 42 farmers. The main activity of the SME is production of dried fruit from technical grade and table sorts of fruits (apricots, peaches, plums, apples, pears, figs and grapes) and melons grown on the lands of Lukashin rural community located in the heart of Ararat valley, famous for the taste qualities of its fruits and vegetables. Average production capacity is 14,000 kg/year of finished produce (dried fruit) that are mainly consumed in the internal market and partly exported to Russian Federation and EU countries.



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“ELBAT” CJSC - Yerevan

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Armenian-German joint enterprise, “ELBAT” CJSC, founded in 2007, is one of the leading manufacturers producing high-quality lead-acid batteries. The company offers a wide range of batteries for every vehicle (cars and commercial vehicles) 40-100 A/H and 120-200 A/H.



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**Araratchanshin - Ararat region**

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“ARARAT-CHANSIN” ROAD-BUILDING COMPANY LLC is one of the leading company in Armenia. They have built their reputation on providing high-quality results in an efficient manner. Their services include asphalt, Lime stone Powder (0-25 mm) and Crashed gravel (40-70 mm;  $\pm 100$  mm) production, bitumen sealing, road profiling, asphalt surfacing, civil construction, placement of gravel etc. They do all this work by combining technological advanced equipment to work more efficiently, which ensures that every contract will be completed in time and on budget.



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**"Ashtarak Dzoo" LLC - Ashtarak region**

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"Ashtarak Dzoo" is one of the leading companies in egg production industry of the republic, occupying over 8% of the market. The company was founded in 2007 through an investment by Russian businessman of Armenian origin. Currently, an aviary for the young and 4 aviaries for laying hens are operated. There exist a stern cuisine, 3 sorting workshops, a packaging workshop, industrial warehouses and a warehouse of finished products. The plans for 2015-2016 include the construction of 3 more aviaries (45,000 birds in each) and another aviary for the young (52,000 bird places). Thus, currently the factory can accommodate 275,000 laying hens. Stern cuisine: power of 81 kW, capacity of 4 t per hour.



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## “GALIK” LLC - Ararat region

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“Galik” LLC, which produces lime in the Ararat region, was founded in 1997. The product is consumed exclusively in Armenia. More than 90% is mainly used in metallurgy and mining (1,100-1,200 tons per month before the war). After the reconstruction and refurbishment, the plant produces lime as the main products. The lime is obtained in semi homed conditions through field stoves. Previously the plant operated as a unit subordinate to the cement plant. Now own laboratory controlled not only the quality of the finished product, but also the main production processes and stages: splitting of raw materials, sorting, roasting, primary crushing and crushing. The main raw material of lime is a limestone, which determines the quality of products. Ararat limestone is different purity and homogeneity. Energy costs make up 22% of the cost price.



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# RozFrood

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**RozFrood**



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- ✓ Restructuration of Process Chain (no cost recommendation, will help to ensure production continuity, minimize production interruptions, which will permit to save gas, electricity and water resources, as well as loss of raw materials and final products).
- ✓ Equipment modification, renovation of old worn-out main production equipment. (New refrigerator is added).
- ✓ Recycling of metallic waste: defective metallic caps that are accumulated and stored in open air are supposed to be stored under cover to avoid corrosion, as well as selling to metal recycling company will be recommended. (Is provided to scrap metal recycling companies for free).

“RozFrood” Final products



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# Lusiafood

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## Implemented measures

- Reuse of the unavoidable waste may be implemented as fresh forage for livestock as useful by-product.
- Installation of two-tier meter for electricity. As there is equipment that operates in night time. For consumer connected to 0.38 kV voltage (with monthly consumption more than 400 kWh) grid prices as of 1 February 2021 are AMD 37.98 (night tariff) and AMD 47.98 (day tariffs) per kWh, including VAT.



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## Sam Har LLC

### Benefits and Main challenges

The benefits achieved by “Sam Har” LLC after continuously applying RECP measures include production-process optimization, installation of new equipment for recycling of resources and reduction of energy use and maximal usage of renewable energy sources. Additional benefits, comprising social and environmental aids were improvements in working practices and a reduction of the company's carbon footprint. Due to RECP, “Sam Har” LLC has significantly excelled in product quality, occupational health, safety, and the general environmental performance.



### Implemented measures -16

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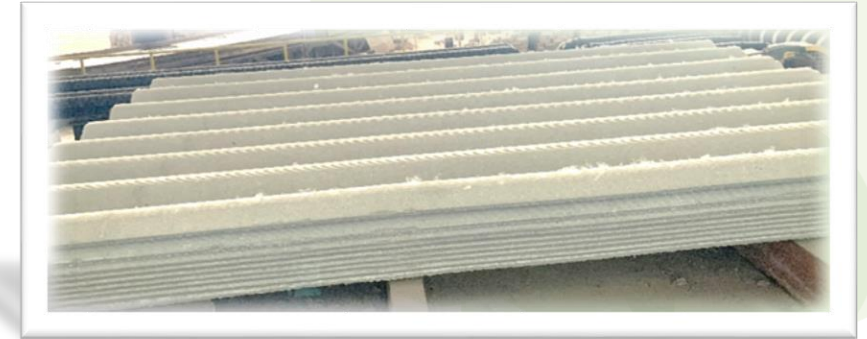
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## “KAVASHEN” LLC

### Fully Implemented measures

- ✓ Repair of workable machines and mechanisms.  
Such works are implemented systematically. Basic repair works of the recuperation unit implemented as well.
- ✓ Downsize administrative quarters occupancy to eliminate heat waste.
- ✓ Reduce administrative heated space.
- ✓ Calibrate the electricity system to current operational facilities.



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## "Arminashogh" LLC - Food production

Key products: cakes, pastries, and varieties of bread

Main markets: Armenia

Return of cakes and pastry was of big amount, so it could be used for “rusk-pacsimat” as well forage useful by-product at the simplest level. So, 4,000 Euros were invested and equipment was purchased. Contracts were signed with the enterprises engaged in meat production for supply of 2 tons of Rusk/Paksimat per year. Production of packaged Paksimat with shelf life of one year, resulted in the payback of 3,800 Euros per year.



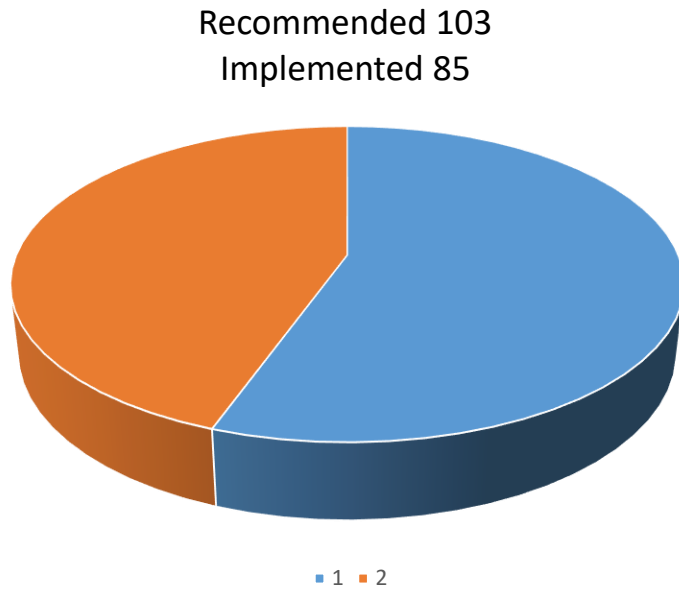
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## Implementation progress– 82%

Lukashin	100%
Elbat	71%
Ashtarak dzu	60%
AraratChanshin	77.7 %
LusiaFood	100 %
RozFrood	92.8%
Kavashen LLC	75%
Sam Har LLC	100 %
Arminashogh LLC	80%

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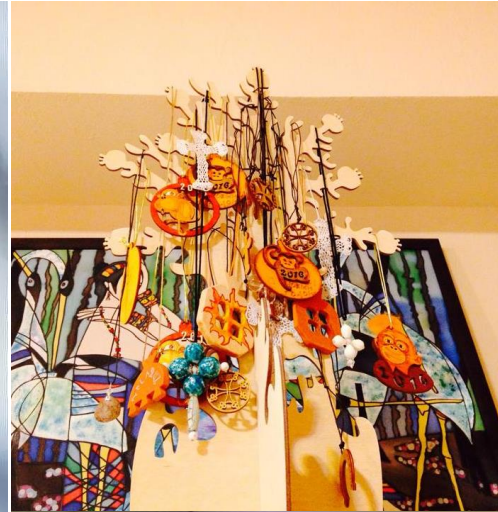




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