

SCHOOL PROJECT



# International SPARE project report

2013-2014  
school year



**Norges  
Naturvernforbund**  
Friends of the Earth Norway

**INF****RSE-EUROPE**  
International Network for Sustainable Energy



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# INTRODUCTION



SPARE is the world's largest international educational school project dedicated to climate and energy. Over 6,000 schools and 500,000 students from eleven countries in Europe, Caucasus region, and Central Asia, are involved in it.

Non-governmental organizations (NGOs), that coordinate SPARE in project countries, collaborate with respective Ministries of Education, educational institutions, environmental protection agencies, scientific organizations, universities, as well as businesses, in the field of education on energy saving.

SPARE organizations in Armenia, Belarus, Georgia and Kyrgyzstan have signed Memorandums of Understanding on cooperation with Ministries of Education, Energy and other governmental bodies.

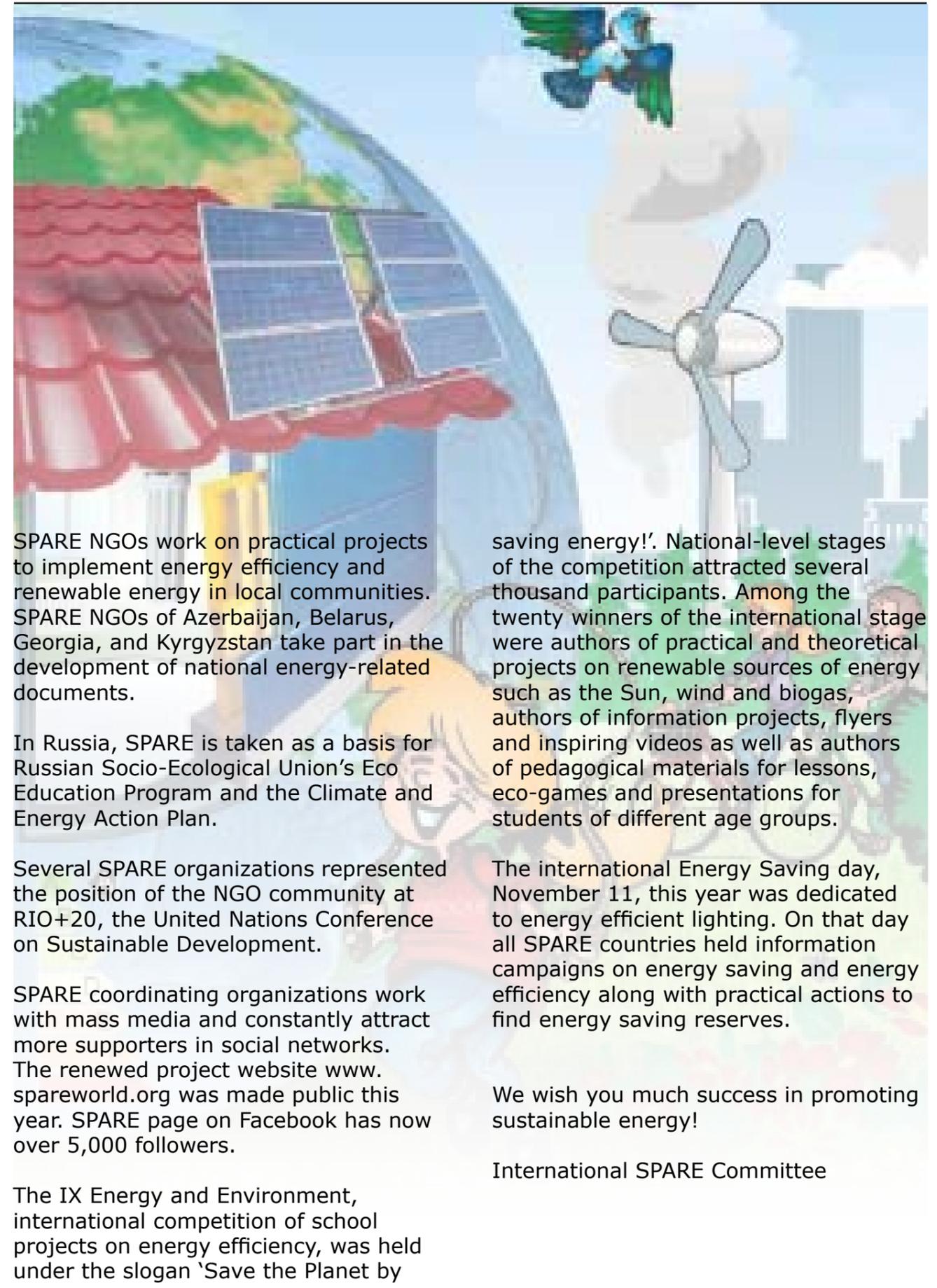
This year Azerbaijan's Ministry of Education approved Energy Saving, a handbook for students and methodical recommendations for teachers. Alternative Energy Sources, an educational course based on SPARE

materials, was included in Moldova's educational curriculum. In Ukraine, Energy and Me study book was recommended by the Ministry of Education.

In Georgia, work is being done to include project modules into the governmental educational system, with the results due in 2016. One of the most popular Georgian TV channels broadcasts the weekly SPARE program.

In the course of 2014 a number of international seminars were held for national project coordinators and the most active SPARE teachers from Eastern Europe (Belarus, Moldova, Russia, and Ukraine), Caucasus region (Azerbaijan, Armenia, and Georgia), and Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan, and Uzbekistan).

This year the first international pedagogical summer school was held in Kiev, where teachers from Ukraine, Russia, Moldova, and Kazakhstan exchanged their successful experience in teaching energy efficiency-related topics.



SPARE NGOs work on practical projects to implement energy efficiency and renewable energy in local communities. SPARE NGOs of Azerbaijan, Belarus, Georgia, and Kyrgyzstan take part in the development of national energy-related documents.

In Russia, SPARE is taken as a basis for Russian Socio-Ecological Union's Eco Education Program and the Climate and Energy Action Plan.

Several SPARE organizations represented the position of the NGO community at RIO+20, the United Nations Conference on Sustainable Development.

SPARE coordinating organizations work with mass media and constantly attract more supporters in social networks. The renewed project website [www.spareworld.org](http://www.spareworld.org) was made public this year. SPARE page on Facebook has now over 5,000 followers.

The IX Energy and Environment, international competition of school projects on energy efficiency, was held under the slogan 'Save the Planet by

saving energy!'. National-level stages of the competition attracted several thousand participants. Among the twenty winners of the international stage were authors of practical and theoretical projects on renewable sources of energy such as the Sun, wind and biogas, authors of information projects, flyers and inspiring videos as well as authors of pedagogical materials for lessons, eco-games and presentations for students of different age groups.

The international Energy Saving day, November 11, this year was dedicated to energy efficient lighting. On that day all SPARE countries held information campaigns on energy saving and energy efficiency along with practical actions to find energy saving reserves.

We wish you much success in promoting sustainable energy!

International SPARE Committee

# AZERBAIJAN



**Azerbaijan joined SPARE project in 2003. Azerbaijan Youth Union (AYU), which has worked in the field of environmental protection since 1993, coordinates the project in the country.**

This year, Azerbaijan's Ministry of Education approved Energy Saving, a handbook for students and methodical recommendations for teachers. The materials were distributed among five hundred schools of the country.

AYU forms part of a working group under the jurisdiction of the Ministry of Energy and the State Agency on Alternative and Renewable Energy Sources, and is involved in the process of developing informational materials on renewable energy and energy efficiency. As the result of this collaboration, methodical recommendations and I save energy student magazine were published in 2013. SPARE materials were used in both publications.

In partnership with "Future Vision - Educational Development Public Union", SPARE Azerbaijan received additional funding from the National NGO Council in order to develop environmental online games for young people. The developed games and applications will be disseminated among the educational institutions of Azerbaijan.

In summer 2014, the State Agency on Alternative and Renewable Energy Sources in cooperation with

SPARE organized summer camps for students from different regions of Azerbaijan.

**SPARE Azerbaijan closely cooperates with the Ministry of Ecology and Natural Resources. There is an approved joint program of events for 2014-2015. At the same time, SPARE Azerbaijan is part of the public working group under the jurisdiction of the Ministry.**

AYU has been involved in the public discussion on energy efficiency, which was organized by the OSCE office in Azerbaijan. The topic of the discussion was energy saving in residential buildings. This past year, forty-five articles covering project events, as well as three video reports, appeared in local media.

AYU received additional funding from the US Embassy in Azerbaijan. As part of the joint project, AYU conducted two trainings for school administration staff and representatives of local authorities on the topic of energy efficiency in schools. After the training, energy



audit was conducted in six pilot educational institutions. It helped to assess the energy saving potential in schools and, as the result, gave final recommendations on the implementation of energy saving and energy efficiency measures. Public discussions were held with the participation of relevant state institutions and public organizations, such as the Ministry of Education, Ministry of Energy, the State Oil Company of Azerbaijan Republic (SOCAR), various universities, and media.

This past year two summer schools (in Kach and Lankaran districts) joined the Eco School/Green Flag project, which helped them to get involved in energy efficiency issues.

In summer, a seven days long study trip to Georgia for teachers with the topic of energy efficiency and renewable energy sources took place. During the trip, the teachers took part in a workshop held at the Rural Communities Development Agency, where they learned about the experience in implementing energy efficient solutions and renewable energy capabilities. Together with Georgia's Green Movement, they took part in the construction of solar fruit dryers and solar

collectors. Upon coming back from the study trip, the participants constructed three solar fruit dryers for themselves, as part of the Clean Energy project.

## Contacts:

Naila Ismayilova  
Azerbaijan Youth Union  
M. Efendiev Street, house nr. 7, office 24/26  
Baku, Azerbaijan

Phone/ fax: (99412) 555-24-13

Web: [www.spare.az](http://www.spare.az)

[www.ayu-az.org](http://www.ayu-az.org)

E-mail: [azerbaijan@spareworld.org](mailto:azerbaijan@spareworld.org)

[nailiasohbet@yahoo.co.uk](mailto:nailiasohbet@yahoo.co.uk)

# ARMENIA



**In Armenia, two hundred and eighty-six educational institutions, one-hundred thirteen of which are active SPARE schools, three hundred and three teachers, and fifteen thousand three hundred students from eleven regions took part in the project in 2013-2014.**

Armenia is one of the first participating countries, where the subject “Energy and Resource Use” is included in school curriculum. Student workbook - for practical work (1,800 copies), SPARE information booklet (1,000 copies), Energy Efficiency postcards (500 copies), and Window insulation: benefit for one’s budget and the environment (500 copies) were published and distributed among SPARE schools, governmental institutions and active public.

In the academic year 2013-2014, the following events were organized for students, teachers and active public:

- Five informative seminars for school directors and heads of four education departments;
- Ten seminars for SPARE teachers;
- Three flash mobs;
- One music concert;
- Three thematic intellectual games;
- One SPARE exhibition among the schools of Yeghvard region;
- Forty-eight events for the International Energy Saving Day.

SPARE Armenia was invited to take part in the Energy Week 2014 Expo and in two days became the exhibition’s favorite. Over a thousand people learned about the project’s activities. One hundred and twenty books, methodical textbooks, brochures, and creative school works were given away during the exhibition.

Five open lessons at the Armenian nuclear power station, twelve clean-ups in protected areas, seven tree-planting events and two environmental summer camps were organized for ten SPARE schools.

Thanks to the Energy Brigades movement thirty-one windows in Tretak village school and thirty windows in Areguni village school were renovated and insulated with the use of resource saving technologies.

As a result, teachers, students and their parents obtained practical information on this topic, and the temperature in school premises went up 6 to 8 degrees Celsius.



SPARE Armenia staff members took part in “Young Eco journalists”, an interregional workshop for three countries in Caucasus, which took part in Georgia. The workshop became an important step to cooperation in the region.

**Tapan Eco-club won a grant competition (two hundred thousand Norwegian Kroner), announced by the Embassy of Norway in Moscow, and thanks to that almost doubled their project plans in 2013-2014.**

Tapan Eco-club presented their SPARE project results at four press conferences.

SPARE Armenia Facebook page has five hundred seventy-two followers; around one hundred to one hundred and thirty of them read the project news on a daily basis. On Twitter, the corresponding number is forty-four.

Armenian NGOs that work in the field of energy saving formed the Environmental Education Network. Together with UNICEF, the Network is working on developing an environmental education/information strategy for Armenia, as

well as on building NGO capacity. Thanks to the Trilateral Memorandum of Cooperation (signed by The Norwegian Society for the Conservation of Nature, Tapan Eco-club and Armenia’s Ministry of Science, Education and Environment) the active work on the implementation of the educational component of SPARE project into the country’s educational system continues.

The Memorandum is endorsed by the Armenian Renewable Energy and Energy Efficiency Fund, and by the State Education Institute of Armenia.

## Contacts:

Hrant Sargsyan

Tapan Eco-club NGO

South-West massive, block B-2, building 21,  
Apartment 23, Yerevan-0004, Armenia

Phone/ fax: (374 10) 52-32-49

(374 94) 41-13-99

Web: [www.tapan.am](http://www.tapan.am)

E-mail: [armenia@spareworld.org](mailto:armenia@spareworld.org),

[info@tapan.am](mailto:info@tapan.am)

# BELARUS



**In Belarus, four organizations are in charge of the SPARE project: Public Association Ecoproject Partnership, International Sakharov Environmental University (an educational institution), Republican Ecological Center for Children and Youth (an educational institution), and Center for Environmental Solutions.**

Ministry of Education of the Republic of Belarus and the Department of Energy Efficiency of the State Committee for Standardization of the Republic of Belarus provide assistance to the project.

Out of the total number of around 3,500 Belarusian schools, one-fourth is involved in the project. Three hundred and fifty-five institutions have received the official SPARE school status. Geographically, the project covers the entire territory of the country – the capital city of Minsk and six regions.

Annually, the project partners release study- and methodical materials that are further used as the basis for lessons and extracurricular activities at schools. This year several publications were released, among them: Me, Energy and Environment; Energy and Ecology; and Simple Energy Solutions For Climate Change. Oftentimes, the authors of the publications are SPARE teachers. As an example, My Best Lesson is a compilation based on works of teachers who won My Best Lesson competition.

Many joint events for project participants are organized in Belarus to maintain the connections within the SPARE community. There is an annual Nature is our Home festival for the students who write scientific and research papers on energy saving. During the festival kids have the chance to meet each other, play so-called “saving” games and take part in useful thematic workshops. For the teachers there is Energy. Climate. Education, the republican scientific and practical conference. For teachers from different regions there is a number of educational workshops and trainings. In 2013-2014, over three hundred teachers from one hundred Belarusian schools were trained.

The National Academy of Postgraduate Education developed a training program for teachers on the topics of resource and energy saving, and climate change. The program will be launched in 2014-2015 at the Academy.

In various regions of the country new thematic methodical associations are being created.

Throughout the academic year, students and teachers are invited to take part in educational



competitions and actions. For example, one may join the environmental Post Crossing action on the International Energy Saving Day by sending their friends a postcard that reminds them how and why it is important to save energy. One may join the intellectual Green “What? Where? When?” game or play the Ecobattle board game, which is an analog to the famous Mafia game. One may take part in a variety of competitions, such as Zero-Waste Planet, Eco Glossary, Energy Line, My Best Lesson, My School’s Energy Saving Story and Warm Stories.

**In 2014 a resource and information center on energy saving and ecology for teachers opened in Minsk. It possesses a unique collection of methodical materials, as well as new energy-related publications with tips on what needs to be changed in a school to increase its energy efficiency.**

Every year several schools receive support within the Energy Efficient Educational Institution program. Educational institutions that actively save energy, are ready to invest their own resources in energy efficiency-themed events, and implement active environmental education, may apply for consultations and financial support. This year one of the schools received a mini-grant to open the School of Thrifty Householders museum-lab. Previously, educational institutions in Belarus have received the opportunity to replace their old windows, install energy saving lamps and other

energy saving equipment (i.e. a kitchen oven, a washing machine).

We publish all project news on the Belarusian website [spare-belarus.by](http://spare-belarus.by). You may follow the project’s activities in VKontakte social network at [http://vk.com/spare\\_belarus](http://vk.com/spare_belarus).

## Contacts:

Natallia Andreyenka  
Public Association Ecoproject Partnership  
Kedyshko Street, house nr.14B, office 114,  
Minsk, Belarus

Phone/ fax: (37517) 336-01-91  
(37520) 106-67-10

Web: [www.spare-belarus.by](http://www.spare-belarus.by)  
[www.ecoproject.by](http://www.ecoproject.by)

E-mail: [na@ecoproject.by](mailto:na@ecoproject.by)  
[astapovich@ecoidea.by](mailto:astapovich@ecoidea.by)

# GEORGIA



**In Georgia SPARE is implemented by Ecovision NGO, which has been its national coordinator since 2002. Today SPARE is an important part of Georgia's environmental education process on the state level.**

In 2013-2014, a total of sixteen workshops took place in Tbilisi and three other regions of Georgia. Over four hundred and eighty new teachers and 5-8 graders took part in them. One hundred and sixty new schools joined the project this year.

Project coordinators actively collaborate with the National Center for Teachers Training and the Ministry of Education and Science. Work is being done to include project modules in the governmental educational system, which is due in 2016. A collaboration agreement has been signed. All the materials released within the SPARE project in Georgia are approved by the Ministry of Education and Science. Parts of the SPARE program are included in the Handbook for teachers, developed by the Ministry and UNDP.

Around fifty SPARE teachers supported NGO initiatives on the local level. Around sixty SPARE teachers are taking part in various public information activities. Twenty SPARE teachers took part in the meeting on strategy planning within the project framework. Fifty SPARE teachers became trainers and hold trainings for new teachers. Together with the German company BOSCH, Ecovision NGO held four educational

trainings on energy saving and energy efficiency, in which around five hundred Tbilisi students took part. The training wrapped up with a full-scale citywide event with tree planting, a separate waste collection activity, and the awarding of the training's participants.

Environmental Quizzes and singing of Energy Efficiency songs, written specifically for this day, were organized for the parents who took part in the event. BOSCH was giving away presents throughout the whole event. SPARE materials were used during the preparation and the event itself.

A game entitled SPARE Earth, containing environment-related questions and elements of a strategy game, was developed and adapted for Facebook ([www.sparegames.org](http://www.sparegames.org)).

In 2014, Ecovision NGO held a SPARE environmental camp, which was attended by the twenty-five most active students, winners of the national Energy and Environment competition. During the camp Ecovision staff conducted many environmental trainings for the camp participants. The educational program included a visit to the cave of Prometheus and a clean-up in Ureki area.



At the camp students made videos dedicated to climate change and energy saving, and played fun ecoeducational games.

**IMEDI, one of the most popular TV channels in Georgia, broadcasts a weekly SPARE show that continually holds one of the first two positions in the rating of most watched ones. (<http://www.youtube.com/channel/UCaptSAdWmlBmDXj0WWI5z6A>)**

Two thousand copies of the Energy Saving handbook were printed and distributed among new SPARE schools.

The Memorandum of Understanding on Environmental Education was signed between Ecovision NGO and the Head of the Environmental Protection and Natural Resources Committee of the Georgian Parliament.

Ecovision actively collaborates with the Committee in the field of environmental education and propaganda. The Memorandum envisages collaboration in the field of science and education; energy efficiency and promotion of renewable energy sources; development of legal framework related to energy efficiency and clean environment; diverse environmental campaigns.

Two songs about energy saving were created in karaoke format. They already became very popular among SPARE schools: <https://www.youtube.com/watch?v=XjtuFzQet2Y>

<https://www.youtube.com/watch?v=E6PcgxsWYQk>

In addition, as part of the SPARE project, there is a regular program called Environmental Radio-Art on Radio Shokoladi that gives tips on energy saving twelve times a day <https://soundcloud.com/radio-shokoladi-985fm/sets/ecovision>

## Contacts:

Gia Sopadze, Nino Sulkhaniashvili  
Ecovision  
Mazniashvili Street, house nr.4, Tbilisi  
Georgia

Phone/fax: (995 32) 55-40-20  
Web: [www.ecovision.ge](http://www.ecovision.ge)  
E-mail: [georgia@spareworld.org](mailto:georgia@spareworld.org)  
[info@ecovision.ge](mailto:info@ecovision.ge)

# KAZAKHSTAN



**SPARE has been working in Kazakhstan since 2000. Currently, the project is being carried out by a network of partner organizations from five regions of the republic: EcoObraz (in Karaganda), Institute of Human Health (Astana), EkoMangistau (Aktau), Youth Informational Service of Kazakhstan (Shymkent), Ak-Kem-Ridder Tourist-Environmental Club and ROST (Ridder). EcoObraz Public Association (PA) coordinates the network.**

In August 2013, the Energy Saving 2020 program was adopted in Kazakhstan, one of its main areas being "Energy Efficient Society". Public outreach and energy saving propaganda is given a special role in it. Due to that, SPARE Kazakhstan decided to carry out a large-scale informational and educational public campaign on energy saving in the academic year of 2013-2014. The informational campaign took place in five Kazakh cities (Aktau, Astana, Karaganda, Ridder, and Shymkent) and included the following events:

- Energy saving is my solution!; Be armed with wise energy saving; and SAVE Energy public actions;
- Energy Saving is the Energy of the Future drawing and crafts contest;
- Let's Save Energy demotivator image contest;
- Energy Saving Technologies for Everybody mini-exhibition.

Summer is a great time to test the knowledge acquired during the school year in practice.

Students who took part in practical workshops on energy saving proved this statement once again.

**Over 1,000 people, ages from five to sixty, took part in the actions, exhibitions and contests dedicated to energy saving, energy efficiency and climate mitigation.**

Kids of different age groups from the Summer camp of Gagarin boarding school for children without parental care and orphans (Poperechnoe village, East Kazakhstan) and summer school camps of Shymkent city looked for differences between incandescent and fluorescent (energy saving) lamps, searched for examples of irrational energy used at their camps, learned to install energy saving screens, played thematic board games, etc. The trainings gave the children new practical skills along with lots of fun.

In order to recruit new schools for the project, this year a new event format of regional meetings was tested. The meetings were organized by educational institutions that have been actively participating in the project for a long time. In the course of a few months, schools were submitting their applications to the organizational committee to hold an event. As the result, the programs of four educational institutions from Akmola, North Kazakhstan, Almaty and Karaganda regions were approved.

Twenty-five schools (four to eight in each region) attended the project information meetings. The format of events, prepared by schools, was very diverse (round tables, open lessons, workshops, drama, flash mobs, etc.), and students, as well as teachers, were able to take part in them.

In July 2014, an already traditional pedagogical forum for SPARE teachers to exchange their experiences was held in Burabay village. This time the event was international, as along with Kazakh teachers, many of their colleagues and SPARE coordinators from Belarus, Moldova and Ukraine took part. In the course of the forum the participants did not just present the activities of their educational institutions related to energy saving and climate change education. They also held small workshops, thus demonstrating the possibility for the topic of rational resource and energy use to be integrated in different school subjects, such as Physics and Math, Geography and Biology, Russian Language and even Music.

The national project website started working in 2013. In a very short time since its inception, thirty-nine Kazakh schools have created their pages here, and in the Methodical Works section, nine new teachers' publications appeared in both Kazakh and Russian languages. On our website, you may learn about the events at participating schools and in the country as a whole; you may download electronic versions of project publications on energy efficiency and climate change.

On August 14, 2014, SPARE was presented at the Women's Input to Green Economy and EXPO-2017 Republican Forum (in Ust-Kamenogorsk city), which was organized by the National Commission for Women's Affairs and Family-Demographic Policy together with UNDP and East Kazakhstan Regional Administration. One of the event's objectives was to demonstrate the results of women's business and public initiatives and to assess their attractiveness for private investment and governmental support as the innovative green economy subjects with the potential to take part in EXPO-2017.

## Contacts:

Irina Ignatovich  
EkoObraz, Coordination and Information  
Center for Environmental Education PA  
100 000, Alikhanova Street, house nr.5  
(Union House), Office 414,  
Karaganda, Kazakhstan

Phone/fax: +7 (7212) 91-10-79  
Web: [www.ecoobraz.kz](http://www.ecoobraz.kz)  
E-mail: [spare@ecoobraz.kz](mailto:spare@ecoobraz.kz)

# KYRGYSZTAN



**The international SPARE project has been running in Kyrgyzstan since 2005. The project's national coordinator is BIOM Environmental Movement.**

On January 21, 2013, the National Strategy for Sustainable Development of the Kyrgyz Republic for the period 2013-2017 was approved by the President's Decree. In order to implement the Strategy, the Kyrgyz Government is currently working on the development of a Program of Transition to Sustainable Development of the Kyrgyz Republic (2013-2017), as well as the five-year plan for its implementation.

To draw up the documents, a working group was created under the auspices of the Ministry of Economy, with representatives of Ministries, the civil society and science. Within the Program framework there are various sections dedicated to environmental issues, such as:

- Human development and social progress;

- Science and education for green economy;
- Population health and environment;
- Raising awareness on rational land use;
- Environmental protection;
- Water and drinking water supply;
- Mineral resources;
- Provision of integrated safety of the population and territories from natural disasters.

In addition to that, the environmental aspect of this document possesses a cross-sectoral and cross-cutting nature, and is reflected in the social, economic and political sections as well.

BIOM experts were invited to work on the sections that deal with environmental safety, drinking water, and education. The work on the sections development is



undertaken in close contact with relevant Ministries and Agencies.

**BIOM experts were invited to work on the sections that deal with environmental safety, drinking water, and education.**

The program paves the way for a large number of innovations. For instance, it provides for a credit portfolio for green innovation and technologies. The exchange of the foreign debt for local investment in environmental protection measures (the so-called debt-for-nature swap) is being actively discussed, along with low-carbon energy development, industrial safety, food quality, and many other issues.

**Contacts:**  
 Vladimir Korotenko  
 BIOM Environmental Movement  
 Abdumomunova Street, 328,  
 Kyrgyz National University named after  
 Jusup Balasagyn, room 105,  
 Bishkek, Kyrgyzstan

Phone/fax: (996 312) 61-45-01  
 (996 708) 14-80-15  
 Web: [www.biom.kg](http://www.biom.kg)  
 E-mail: [biom.kg@gmail.com](mailto:biom.kg@gmail.com)

# MOLDOVA



**Gutta Club has been successfully implementing SPARE project in Moldovan schools for the past twelve years. Some positive results for SPARE in 2013-2014: SPARE elements are being included in formal as well as informal school education; students and teachers use energy saving skills in practice; local communities use energy efficient technologies and renewable energy sources more often.**

Over three hundred schools in Moldova and Transnistria, as well as vocational schools and colleges use SPARE components throughout the educational cycle during regular classes and extracurricular activities, among them: eco clubs, optional courses, eco brigades, centers for children's creativity and Stations of young tourists. Over one hundred participants have attended seminars for new schools and trainings for experienced teachers/project coordinators. An educational training for teachers and heads of educational institutions of Soroki district was held jointly with the Regional Department of Education. Seminars for schools in Tiraspol and Bendery were organized together with NGOs that promote eco educational projects in Transnistria.

Among of the achievements are the introduction of SPARE into the following extracurricular courses: Environmental Protection and Education for Sustainable Development (by teachers' choice) and the integration of SPARE's educational component in the subjects within the national curriculum. In

2013-2014 a course on Alternative Energy Sources, backed up by study materials and methodical handbooks based on SPARE experience, was included in Moldova's educational curriculum. This

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new academic year, teachers and students of all grades are provided with study and methodical materials in the state language.

Apart from SPARE integration into the educational system, Gutta Club has actively facilitated practical energy projects, such as setting up energy installations in two Moldovan schools.

Another important task was public outreach and project popularization via national media, by

means of presentations at pedagogical forums, round tables (MoldEnergy – 2014), actions and campaigns together with the Ministry of Environment and partner NGOs (such as the Day without Cars, Energy Saving Day, Earth Hour, etc.).

For the first time, SPARE students and teachers were invited by the Ministry of Economics and the Moldovan office of UNDP to take part in the European Sustainable Energy Week, where they presented their best energy practices and energy saving workshops at the Week's opening.

Throughout the year, public meetings have been held to discuss the role of NGOs and the civil society in promoting sustainable energy in Moldova.

Among this year's publications are posters on the climate-related issues, a handbook with recommendations on how to organize and conduct environmental SPARE summer camps for students, brochures on energy efficiency, a compilation of interactive games to be used in class or during extracurricular work.

The introduction of the Me, Energy and Environment course into the additional environmental education at the beginner school level was approved by the Ministry of Education. Energy and Me handbook is published in Romanian language and will be used in schools in 2014-2015.

Gutta Club and Gas Natural FENOSA Energy Company continues their joint activities in the framework of the partnership agreements. The company established personal awards for the winners of the Energy and Environment 2014 competition. Energy efficiency trainings were held in schools and at three environmental summer camps. Joint activities were organized as part of the Earth Hour international action in Moldova.

The results of the successful implementation of the «Design and conduct of an educational initiative on the use of renewable energy sources in one hundred and fifty rural schools of the Republic of Moldova» under the three-year project «Energy and Biomass» were summarized. In 2015,

the project is expanding its geography to include local communities in Moldova and Transnistria, with the assistance of local authorities and under the auspices of the EU and UNDP.

For the second year in a row, Gutta Club receives a diploma as The Best Youth Initiative in the Field of Energy Efficiency and Renewable Energy Sources at the national Moldova Eco-Energetică 2013 competition, held by the Ministry of Economics, Energy Efficiency Agency and Energy and Biomass project of Moldova.

Teachers and students take part in environmental summer camps and schools in Moldova and abroad during their summer vacations. The national environmental Energy Efficiency Island School for project activists (teachers, students, and volunteers) took place in June 2014, and gathered sixty SPARE participants from all corners of Moldova and Transnistria. Participation in the international climate camp, organized by Gutta Club in Moldova as part of the Climate Ambassadors project (within the Global Power Shift campaign, initiated by 350 international climate movement) became a good follow-up to the Eco School for the most active young people. Environmental camps do not just mean teaching our students how to use resources and energy in an efficient way and practical implementation of sustainable livelihood principles. They also provide new contacts and a lot of fun and rest for teachers and students.

**Contacts:**  
Natalia Halaim  
GUTTA-CLUB  
P.O.Box 6,

Chisinau, Moldova  
Phone/fax: (3732) 75-27-86  
Web: [www.gutta.md](http://www.gutta.md)  
E-mail: [natalia.halaim@gmail.com](mailto:natalia.halaim@gmail.com)

# RUSSIA



**The project has existed in Russia for sixteen years. It covers over twenty regions in seven federal districts. 2,800 schools use project materials. 650 schools and 18,000 kids actively participate in the project.**

The national SPARE coordinator is Friends of the Baltic NGO. In the regions, SPARE development is led by the following environmental organizations: Resource and Information Center for Environmental Education (Vladivostok); Baikal EcoWave (Irkutsk); Ural EcoUnion (Ekaterinburg); Let's Help the River movement/ Ecocenter Dront (Nizhniy Novgorod); Viola (Moscow, Moscow Region, Bryansk); Friends of the Baltic (St.Petersburg and Leningrad Region); AETAS youth organization (Arkhangelsk Region); Kola Environmental Center (Murmansk Region); Karelian Section of the All-Russian Society for Nature Protection. Kaliningrad Region, Tyumen, Yakutia, Khanty-Mansiysk, Chelyabinsk and Novosibirsk Regions joined SPARE as the result of local organizations' initiatives.

SPARE received the Diploma of the International Forum on Energy Efficiency and Energy Saving (ENES-2013) that was held in Moscow under the auspices of Russia's Ministry of Energy.

The main educational materials of the project are Energy and Environment, the international SPARE handbook for middle school, Energy and Me for beginner school, an elective course Me, Future and

Energy for the 9th grade, a compilation Practical lessons for schoolchildren on climate and energy.

This year over a hundred trainings were organized in Russia with over 2,050 teachers participating. Seminars and round tables were held as well.

In St.Petersburg, Friends of the Baltic integrate SPARE into the development of the school EcoSupport network. Methodic materials for ecosupporters on the implementation of energy efficiency and other ecofriendly solutions at schools were published.

In all the regions thematic lessons, trainings for high school students, and business games were held to make the students aware of their ecological footprint and look for ways to reduce it with the help of wise energy consumption and energy friendly solutions.

The SPARE team of the Central Federal District held five summer camps (in Arkhangelsk, Bryansk, Moscow, Yaroslavl, and Kaluga Regions), as well as workshops and practical lessons on renewable energy sources and energy saving. In Nizhniy Novgorod, Energy of the Future, a summer camp

for schoolchildren, was held under the auspices of the Regional Ministry of Education.

In Murmansk, collaboration between schools and small businesses kicked off. The first scientific and practical conference, Energy Supply, Energy Consumption and Energy Saving, was held for college students, schoolchildren and teachers. Simple ways of saving energy were demonstrated at the climate forum with the help of the Energy Efficient Briefcase.

In 2013-2014, the Energy Efficiency Day was held as part of Energy Efficiency is the Largest, Cleanest and Cheapest Energy Source in Russia, an information campaign by the Russian Socio-Ecological Union (RSEU). Eight hundred and fifteen schools took part in it. Teachers and students held information actions and practical events dedicated to energy saving and energy efficiency in schools.

**The State Energy Saving and Increasing Energy Efficiency Program provides the foundation for the project expansion. In the country's regions there is a demand for SPARE, as it is leading in terms of the number of participants and the quality of materials for students and teachers.**

In St.Petersburg, an information action on energy saving was held during the Days of Europe, which was visited by over 1,400 citizens.

For the European Week of Local Democracy a Journey towards Green Solutions public action was organized, during which local people were "traveling" around the district's inner yards and learning about energy efficient solutions for households.

In Irkutsk, SPARE became part of EcoMarathon, a citywide event, by presenting a handbook on the Ecological Footprint of Goods. SPARE was also represented at Ecology in Cultural Paradigm, a scientific and practical conference.

In Kaliningrad, the project was represented at the regional Energy Recourses exhibition, attended by

local authorities, businesses, school and college students, and teachers.

School projects of the Energy and Environment competition were presented at the Energy Saving and Energy Efficiency in Kaliningrad Region's Schools conference, attended by energy experts, ecologists, members of the City Administration, and experts from the Moscow Graduate School of Urban Studies and Planning.

The traditional all-Russian seminar for regional SPARE coordinators was held in August 2013 in St.Petersburg as part of the RSEU conference.

Energy and Environment, the all-Russian school project competition, was held under the slogan of 'Save the planet by saving energy!' Over 1,000 teachers and students took part in it. Fifty-five works passed onto the national level. A Kaliningrad school student, who authored a project on electricity production based on the use of rainwater energy, got an offer from Skolkovo Innovation Center and a European business company, working on the development of renewable energy sources, concerning the practical use of his idea.

Traditional SPARE partners are schools, Education Departments, Departments of Nature Use and Environmental Protection of cities and regions, Education Development centers, Universities, scientific organizations, libraries, municipalities. Cooperation with local businesses is growing.

## Contacts:

Olga Senova  
Friends of the Baltic NGO  
Razvodnaya 12-101, Peterhof-S.Peterburg  
198516, Russia  
Phone/fax: 8(921) 911-79-86  
8(921) 744-42-55  
Web: [www.baltfriends.ru](http://www.baltfriends.ru)  
E-mail: [russia@spareworld.org](mailto:russia@spareworld.org)  
[spare-coordination@spareworld.org](mailto:spare-coordination@spareworld.org)

# TAJIKISTAN



**In Tajikistan SPARE is carried out by Little Earth NGO. Around seventy schools from four regions of the Republic took part in the project over the course of 2013-2014, a total of over seventy teachers and around 2,000 students. We continued our work with four local organizations to develop SPARE in Sughd region, Kulob, Kabodiyon (Khatlon region) and Bartang valley (Gorno-Badakhshan Autonomous Province).**

Little Earth continued its active cooperation with the Dushanbe Teacher Training Center. During 2013-2014 a number of seminars on energy saving and climate change were jointly organized for the teachers of the capital city. Around forty-five people attended. Seminars for teachers were also held in Khujand, Kulob, Kabodiyon and Bartang valley. Teachers, who are already involved in the project, got the opportunity to exchange their experience. All participants received new thematic materials and publications. Around two hundred people attended the seminars.

This year two-day long educational seminars for school and lyceum teachers took place in Dushanbe and Khujand, with the topic of Educational and Practical Projects on Energy Efficiency in Schools. Two teachers from Kazakhstan were specially invited to lead the trainings. The Kazakh colleagues shared their personal experience, as well as methodology and specific play and learning techniques used during lessons and extracurricular activities. Around forty teachers attended both trainings.

In April 2014, a two-day conference for SPARE teachers took place in Dushanbe. Local SPARE coordinators and the most active teachers from Dushanbe, Bartang valley, Kulob, Khujand, and Kabodiyon, took part in the conference, a total of twenty-five participants. At the conference, the winners and participants of the international SPARE competition received their awards.

In March 2014, Little Earth held a conference in Dushanbe for the most active SPARE students and the young members of the organization. Over twenty young activists from Dushanbe, Khujand and Pamir took part in the event. The participants discussed the organization's development strategy, its main plans and events for the coming year. Representatives of local youth groups shared information about actions and other events they had organized.

For the International Energy Saving Day, Little Earth and its local partners organized mini-exhibitions, video screenings and insulation workshops in schools. In

Dushanbe, Little Earth organized a mobile mini-exhibition, consisting of info-posters on energy efficiency, various energy and water saving devices, and even a solar battery. In Kulob, Kalidi Donish public organization held an open lesson on energy saving for fifty students of two city schools. The local partner in Khujand arranged for a program called Save Energy to be broadcasted by a local TV channel SM-1.

Events dedicated to the Earth Day took place in all SPARE regions. In Dushanbe, organizations and schools prepared thematic exhibitions and info-stands. Environmental quizzes and competitions were held. Around two hundred people attended. In Kabodiyon, a Green Schools campaign was organized to celebrate the Earth Day. Schools organized clean-ups of their territories and waterways, and tree planting. Around one thousand students took part in these events. In Kulob, the Earth Day gathered over two hundred active students who got the chance to take part in ecopoetry and song contests and to watch eco videos.

**For the first time, Little Earth organized and held Freemarket, an eco-market, in Dushanbe. The main goal of the market was to draw people's attention to the rational use of resources and the importance of exchanging "useless" things with each other.**

In July 2014, Green Energy and Us youth training was held on the shore of Kairakum water reservoir. Around thirty youngsters, ages 11 to 14, from Dushanbe, Khujand, Kairakum and Chkalovsk, took part in the event.

Fifteen papers were submitted to the national level of SPARE competition this past academic year.

A competition for the best pair of knitted socks 'Knit socks – save kilowatts!' was announced on the Energy Saving Day. Around sixty people from Dushanbe, Pamir, Kabodiyon, and Khujand, took part in it. As the result, seventy-seven pairs of socks were collected and donated by Little Earth to a local orphanage.

This past year fourteen demonstration lessons were organized and conducted for 7-, 8- and 9-graders of public schools in SPARE regions. In the course of the lessons the students were demonstrated the available energy- and heat saving measures.

In academic year 2013-2014, Little Earth published the Energy Practicum handbook in Tajik language, which was originally developed by EcoObraz public association. One hundred and fifty copies were published and distributed at SPARE schools and among SPARE teachers. In addition to it, seventy sets of posters on renewable energy sources (four posters in each set) and fifty sets of posters with easy tips on water and energy saving (three posters in each set), both in Tajik and Russian language, were distributed.

## Contacts:

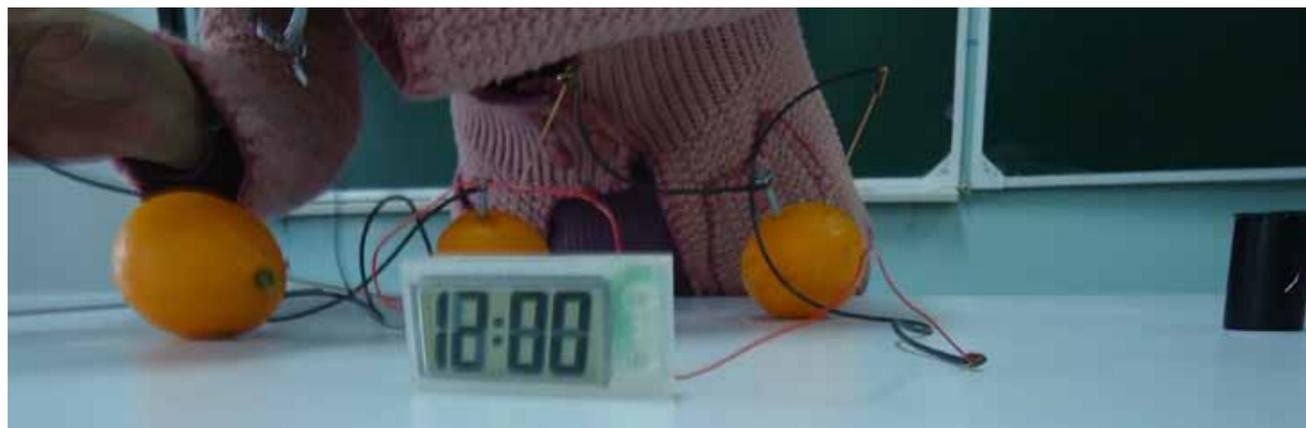
Timur Idrisov, Svetlana Unru  
Little Earth NGO  
P.O.Box 329, 734001  
Dushanbe, Tajikistan

Phone/fax: (992 37) 881-39-77

Web: [www.leworld.org](http://www.leworld.org)

E-mail: [little.earth.tajikistan@gmail.com](mailto:little.earth.tajikistan@gmail.com)

# UZBEKISTAN



**The project has been going on in Uzbekistan since 2001. It is carried out by ADEK (the Association of Children's Environmental Clubs of Tashkent). Ten Tashkent schools and two lyceums take an active part in the project. Three hundred and eighteen teachers from two hundred and thirty-six schools of eleven districts of Tashkent and twenty-two schools from fourteen districts of Tashkent region learned about the project at our seminars.**

This academic year the following events were held: for teachers of Tashkent and Tashkent region – fifteen seminars on Ecological Footprint and Perspectives of Solar Technologies in Uzbekistan; for students – five thematic seminars and four creative competitions.

In Tashkent school Nr.18 the approbation of the handbook on practical lessons was held successfully. In the same school, the lighting system in cabinet nr.5 was replaced.

In summer 2014, an environmental camp was organized for twenty students who are active in eco clubs and participate in the International SPARE competition.

Among the events that were held during the academic year are the Day without Cars, the Earth Day, and the SPARE Week.

One hundred and three students from ten schools and two lyceums took part in the national stage of the Energy and Environment competition.

Our project work has been covered by [www.sreda.uz](http://www.sreda.uz) (Environmental Information network of Uzbekistan) and *Novy Vek* ("New Age") newspaper.

**One hundred and three students from ten schools and two lyceums took part in the national stage of the Energy and Environment competition.**

Our partners are the Physical and Technical Institute of the Uzbek Academy of Sciences, Rosstrudnichestvo (Russian Federal agency for CIS States) program on science and culture in



Uzbekistan, and the Russian Cultural Center (RCC). We actively work with the Physical and Technical Institute of the Uzbek Academy of Sciences to promote energy efficiency and renewable energy sources among teachers and students. Together with Rosstrudnichestvo and RCC, we conduct the national Energy and Environment competition.

## Contacts:

Valeria Volynskaya  
Association of Children's Environmental Clubs of Tashkent  
H. Samatova Street, 3-43  
100000 Tashkent, Uzbekistan

Phone/fax: + 998712371484  
E-mail: [adek@yandex.ru](mailto:adek@yandex.ru)

# UKRAINE



## In Ukraine, SPARE project has been running since 2002. Eremurus environmental NGO is the project's national coordinator in this country.

With the support of the NGO Working Group on climate change, an appeal concerning the integration of energy efficiency and climate change issues into natural science subjects was prepared and directed to the Minister of Education, the Minister of Ecology and Natural Resources, and to the Head of the State Environmental Investment Agency.

The organization's website is still very popular among the Ukrainian teachers. On the website, a poll was conducted, asking teachers if there was a need to teach energy saving to students. Twelve teachers replied to the poll questions.

A school competition for the best SPARE school webpage attracted many active participants. On Eremurus website, schools have the opportunity to post information about their work on energy saving, which may be viewed by clicking on the interactive map.

SPARE supported the all-Ukrainian scientific and practical conference 'Research Component in the

Activities of Secondary Schools and Institutions of Additional Education'. The conference was organized by the Ministry of Education and Science of Ukraine, the National Academy of Pedagogical Science, and the Institute of Gifted Child.

**Over 200 students and around 100 teachers took part in the SPARE competition. One of the national awardees became a winner of the international competition.**

We were partners of Let's Do It Ukraine and the Recycling Day events.

The Ecohouse board game for schoolchildren was developed and published. Another game, Leaps and Flutters (developed by NASA) was translated and published.

A big selection of informational and methodical materials was created and sent out to teachers. The national stage of the annual Energy and Environment competition was sponsored by



Danfoss and Amadeus companies, and was held with the participation of the Ministry of Education and Science and GIZ.

Schoolteachers from different regions of Ukraine took part in Climate, Nature, Energy countrywide pedagogical conference.

Four thousand copies of the Energy and Me handbook were published with financial support from Active Solar and GIZ. The handbook received recommendations of the Ministry of Education and was sent out to different regions of Ukraine. Five presentations of the handbook were held regionally.

Eremurus co-organized the First international Festival of Cinema and Urban Studies '86' that took place in the town of Slavutych.

The summer was especially rich in events for our organization.

The most active Ukrainian teachers participated in the Energy Saving and Climate Change Issues in Schools international pedagogical forum that took place in Borovoe village, Kazakhstan.

SPARE project and the Me and Energy handbook was presented at the scientific and practical seminar 'Teaching about climate change in school', organized by the National Environmental Center of Ukraine (NECU) and WWF.

In Lviv, Eremurus helped to hold the Sustainable Energy Week together with the Association of Energy Efficient Cities of Ukraine and with the support of Lviv City Council.

Eremurus team held a two-day camp program on energy saving for the students of a pilot SPARE school Nr.1 of Verkhnyachka settlement.

The organization took an active part in the traditional all-Ukrainian Trypilske Kolo festival and presented our activities in the children and environmental sections.

### Contacts:

Elena Melnikova  
Eremurus Public Environmental  
Organization  
Heroes of Dnipro Street, 17, apt.44  
Kiev, Ukraine

Phone/fax: (380 44) 468-74-14  
Web: [www.ereurus.org](http://www.ereurus.org)  
E-mail: [ereurusua@ukr.net](mailto:ereurusua@ukr.net)

SCHOOL PROJECT



## **We invite schools from any country in the world to join international SPARE school network!**

If you have teachers and students, who are interested and/or are actively working on the topics of energy saving, renewable energy sources, environmentally friendly solutions, or climate change, we invite you to register your school on our website [www.spareworld.org](http://www.spareworld.org).

You can become a SPARE school if you:

- 1) Study the way energy is related to environment;
- 2) Take practical steps to save energy and implement renewable energy sources;
- 3) Inform your community about environmentally friendly solutions for sustainable energy - as part of SPARE or other projects.

**If you already do all or any of the above, please, fill out the application form at [www.spareworld.org](http://www.spareworld.org) and get registered as a SPARE school!**

By becoming a SPARE school, you get access to the information within the international SPARE network, the ability to take part in the annual international Energy and Environment competition, as well as receive an international certificate that confirms the participation of your school in the SPARE project.

**6000 schools have already joined us!**

For further information, methodical materials for teachers as well as the latest SPARE news please visit our website [www.spareworld.org](http://www.spareworld.org)

SPARE on Facebook: <https://www.facebook.com/pages/Spare-International/332542720144684>