

# Community Development Support Program in the Russian Federation

## Round 2

Финансирование Программы: The Program was carried out in the Russian Far East, Lake Baikal Region, Northern Caucasus and in some other regions of Russia with financial support from the United States Agency for International Development (USAID), which has provided a total of \$5.65 million for the period from 2006 through 2009.



**USAID**  
ОТ АМЕРИКАНСКОГО НАРОДА

**The Program was aimed at** assisting communities in addressing environmental, economic and social problems, and included the following core components:

1. Grant-making in the targeted communities
2. Dissemination of best community development practices
3. Training for development
4. Creation of new community development tools and practices

**The Primary Program Goal** was to design and disseminate both innovative and proven models of sustainable community development throughout the Russian Federation.

### Key Program Objectives:

- engage local citizens in addressing local needs and problems through a series of targeted grants focused on local economic development, waste management, public health, small business development, social assistance and natural resources management;
- develop and introduce tools for energy savings and mechanisms to allow communities to reinvest saved resources into development programs;
- promote multi-stakeholder participation in selected communities in identifying priorities for community development;
- train community leaders, government officials, and business leaders to better address community needs through collective efforts;
  - replicate best community development practices in a selected region.

Grant funding decisions were passed by the Program's Advisory Committee (AC) founded to ensure transparency and equal opportunities for all organizations participating in grant contests. The main functions of the Advisory Committee are to approve funding for grant proposals, which have previously been reviewed by experts, and to oversee the targeted use of the Program's grant funds.

### The Program facilitated:

- an increased standard of living in Russian regions;
- the creation of a potential for future community development;
- citizen participation in decision-making regarding their communities through interaction with local government and business.



Фонд Устойчивое Развитие

**Program management:**  
**Fund for Sustainable Development**  
14 Gubkina St., Office 73; POB 85  
Moscow 117312  
Tel.: 7(495)7480552; fax: 7(495)7480553  
E-mail: ofokin@iscmoscow.ru; info@fund-sd.ru www.rund.sd.ru

## Contents:

|   | Page |
|---|------|
| 1. Second CDSP Contest Statistics   | 2    |
| 2. Second CDSP Contest Projects   | 2    |
| 3. Project Complex “Installing independent power supply systems using renewable energy sources and processing organic waste for sustainable regional development” | 4    |
| 4. Project Complex “Sapitskaya Budka Recreation Area”   | 11   |
| 5. Project Complex “Tarbagataisky Municipality – sustainable development of a traditional community”  | 17   |
| 6. Project Complex “Our success is based on each and everyone’s initiative: sustainable development of Cheremkhovo”   | 23   |
| 7. Project Complex “Promoting sustainable community development in t Sikachi-Alan, Ilyinka and Malyshevo settlements in Khabarovsk Krai”                          | 29   |
| 8. Project Complex “Creating conditions for civil society development in Elban Municipality”  | 35   |

## Second CDSP Contest Statistics

|  |                              |
|--|------------------------------|
| Submitted project proposals  | 20 projects by 6 consortiums |
| Project proposals approved for funding by the Advisory Committee Working Group | 20 projects by 6 consortiums |
| Total cost of project funding  | \$680, 012                   |
| Total amount allocated for the second contest                                  | \$326, 329                   |
| Total grantee contributions and other sources                                  | \$352, 683                   |
| Average grant  | \$16, 316                    |

## CDSP Second Contest Projects:

Project Complex **Installing independent power supply systems using renewable energy sources and processing organic waste for sustainable regional development** (\$65 385)

### Thematic projects included in the Project Complex:

1. Processing hazardous poultry, livestock and wine-making waste and generating biogas and producing environmentally sound fertilizers (\$24, 380)
2. Heating and hot water supply of administration buildings based on renewable energy sources (\$23, 250)
3. Processing agricultural produce, berries and medicinal herbs with the use of solar energy (\$17, 755)

Project Complex **Sapitskaya Budka Recreation Area** (\$64 700)

### Thematic projects included in the Project Complex:

1. Modernization of the energy-efficiency system in School # 29 in Vladikavkaz (\$24, 700)
2. Separate waste collection in Prigorodny Raion, Republic of North Osetia-Alania (\$20, 000)
3. Improving the environment of Sapitskaya Budka Recreation Area (\$20, 000)

Project Complex **Sustainable development of a traditional community** (\$53 291)

**Thematic projects included in the Project Complex:**

1. Energy-saving in Tarbagataisky Raion – conversion of coal-burning boiler plants to the use of alternative fuel (\$24 500)
2. Warmth in Solnyshko Kindergarten (saving energy and heat and improving child health) (\$17 000)
3. Investing in warmth – reinvesting in wellbeing (reinvestment of energy savings into social programs) (\$11 791)

Project Complex **The key to our success is the initiative of everyone – sustainable development in Cheremkhovo Municipality** (\$55 897)

**Thematic projects included in the Project Complex:**

1. From Metering to Saving – partial renewal and adjustment of heating systems in five educational institutions and installation of heating and hot water flow meters (\$24 917)
2. Yes to Health! – improving the area around the kindergarten (\$6 728)
3. Regular Meals – Healthy Students – organizing hot meals in schools (\$9 211)
4. A Sound Mind in a Sound Body – upgrading the school’s gym and improving the quality of physical training (\$15 040)

Project Complex **Creating conditions for sustainable community development in Elban Urban Settlement** (\$41 056)

**Thematic projects included in the Project Complex:**

1. Upgrading process pipelines at the central boiler plant to supply hot water to the community during summer (\$19 620)
2. Comprehensive modernization of the library building in Elban Settlement to expand the range of community services (\$17 736)
3. Increasing environmental literacy in Elban Settlement as a means of controlling the spread of unauthorized dumps (\$3 700)

Project Complex **Sustainable development of Sikachi-Alan, Ilyinka and Malyshevo settlements in Khabarovsk Krai** (\$46 000)

**Thematic projects included in the Project Complex:**

1. An alternative source of energy using solar heat for heating water at the Educational Center in Sikachi-Alan Settlement (\$15 000)
2. Sikachi-Alan Petroglyphs – a key to community development (\$20 000)
3. Founding an ethnographic museum in Sikachi-Alan to promote integration of friendly cultures (\$5 200)
4. Reviving a traditional culture to advance economic and spiritual development of small Arctic indigenous people (\$5 800)

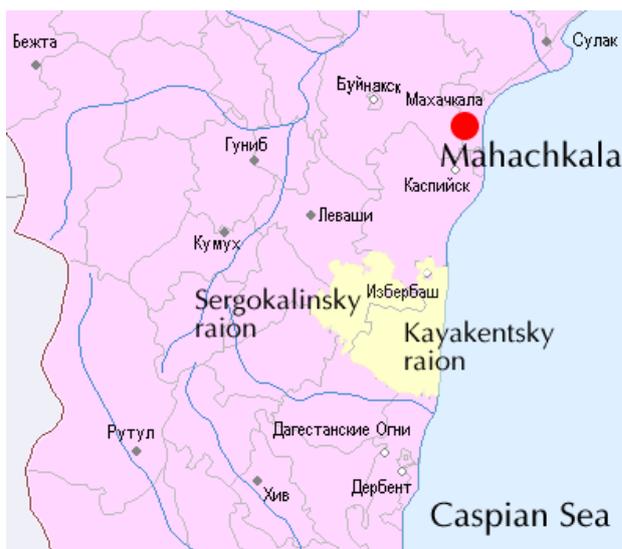
## Project Complex

### Installing independent power supply systems using renewable energy sources and processing organic waste for sustainable regional development

Requested amount \$65 385    Grantee contribution \$50 000    Total cost \$115 385

#### Thematic projects included in the Project Complex:

1. Processing hazardous poultry, livestock and winemaking waste and generating biogas and producing environmentally sound fertilizers.
2. Heating and hot water supply of administration buildings based on renewable energy sources.
3. Processing agricultural produce, berries and medicinal herbs with the use of solar energy.



#### Municipality Profile

Kayakentsky and Sergokalinsky raions with a total population of 86,000 are located in the foothills in the Republic of Dagestan and have a common border. The two raions have well-developed agricultural production, which provides good opportunities for introducing techniques for recycling livestock and wine-making waste and producing dried fruits and berries.

#### Community problems addressed by the Project Complex:

- high cost of traditional energy resources consumed by entities with decentralized energy-supply systems (farms, children's summer camps, and kindergartens and hospitals in remote settlements);
- lack of a system promoting the use of energy efficiency techniques based on renewable energy sources;
- need to create new jobs for community members and, especially, for the youth;
- absence of environmental education;
- need in energy saving and the efficient utilization of local renewable energy sources, which provide additional budget revenue;
- need in comfortable conditions and new jobs at facilities for deep processing of agricultural produce;
- need to address environmental issues, including the cost of utilizing modern energy-saving and environmentally sound agricultural processing technology and waste recycling.

#### Synergetic effect of the Project Complex:

The Project Complex was carried out in a region with decentralized energy supply, where up to 50% the cost of imported fuel (coal and firewood) is covered by municipal subsidies. The Republic of Dagestan possesses extensive experience in developing solar energy generation techniques, whose introduction as part of project activities made it possible to lower municipal budget expenditures in the model raions. The implementation of the project complex makes it possible to save 350,000 rubles a year for the local budgets due to a reduction of consumption of traditional types of energy. These energy savings were reinvested in the communities for the

further promotion of energy-efficiency techniques.

Organizations working on the projects have established constructive interaction with the model Sergokalinsky and Kayakentsky raions: all members of the Consortium and the heads of administrations of the model raions have signed a Memorandum on Interaction for the period of Project Complex implementation.

The economic effect of the Project Complex was channeled toward sustainable community development and introduction of innovative techniques by reinvesting energy savings into new projects and training specialists.

**Contact person of the Project Complex:**

Abdullah Amadziyev, director of a branch of the United High-Temperature Institute

**Contact information:**

75 Yaranskogo St., Republic of Dagestan  
Tel.:(8722)62-93-76, e-mail [ivtran@inbox.ru](mailto:ivtran@inbox.ru)

**Organizations – members of the Complex**

| <b>Title</b>   | <b>Category</b> | <b>Profile</b>   |
|--|-----------------|--|
| Branch of the United Institute of High Temperature at the Russian Academy of Sciences    | non-profit      | Research, development and introduction of renewable sources of energy and environmentally sound energy-efficient techniques. Creation and replication of independent sources of energy supply for decentralized consumers of energy. |
| Ecology LLC  | business        | Practical implementation of alternative energy projects.   |
| Geothermics Institute of the Dagestan Research Center at the Russian Academy of Sciences | non-profit      | Development and introduction of alternative energy projects, including those devoted to the use of thermal water.  |

**Duration (months)**                      10    **Start date**                      01/10/ 2007                                      **End date**                      31/07/2008

## **Project**

### **Processing hazardous poultry, livestock and wine-making waste and generating biogas and producing environmentally sound fertilizers**

#### **Organization:**

Branch of the United High Temperature Institute of the Russian Academy of Sciences in Makhachkala

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 31.07.2008

#### **Project summary:**

This project involves installing self-contained energy-saving sources with the use of secondary resources - agricultural waste. Special complexes were built that utilize toxic winemaking and poultry and cattle farm waste and produce biogas and environmentally sound fertilizers. Biogas is used for supplying energy to farms and individual consumers. The sediment from these complexes, which is an environmentally sound fertilizer, will be used in the community. This project is environmentally effective, since it utilizes hazardous cattle and poultry breeding waste. The applied technique of methane fermentation is, essentially, waste-free and helps to resolve two important issues: an environmental one by recycling waste and a social one by providing good working conditions on farms.

#### **Location of dissemination:**

Kayakentsky and Sergokalinsky raions, Republic of Dagestan

#### **Contact information:**

75 Yaranskogo St., Republic of Dagestan

Tel.:(8722)62-93-76, e-mail [ivtran@inbox.ru](mailto:ivtran@inbox.ru)

#### **Project coordinator:**

Abdullah Amadziyev, director of a branch of the United High-Temperature Institute

#### **Project objectives:**

In Kayakentsky and Sergokalinsky municipalities, gas is supplied to only 50% of consumers. Farms and settlements with decentralized power supply systems mostly use fuel that is delivered from other regions or cut trees for firewood. The cost of delivered fuel and coal is subsidized from the local budget and is sold to the population at a price of 1,200 rubles per 1 t, while its actual cost is 3,500 rubles per 1 t including delivery.

This project involves installing self-contained energy-saving sources that work on secondary resources - agricultural waste.

The complexes and modular facilities, which are intended for individual farmsteads and large farms utilize toxic wine-making and poultry and cattle farm waste and produce biogas and environmentally sound fertilizers, help attain the following objectives:

- environmental – utilization of waste from poultry and cattle farms and wine-making facilities and bio-detoxification of hazardous agricultural waste;
- energy-efficiency – through effectively making use of secondary resources;
- agrochemical – production of high performance environmentally sound organic fertilizers;
- social - creation of comfortable living conditions for residents of locations with decentralized energy-supply systems.

The economic effect of biomass recycling (production of methane and good quality environmentally sound fertilizers) was reinvested in the local municipal budget and was directed toward further community development.

**Final results:**

- As a result of project activities three cattle and poultry waste utilization facilities were built: two in Kayakentsky Raion and one in Sergokalinsky Raion;
- Each complex generates up to 800 m<sup>3</sup> of biogas and 4 t of environmentally sound fertilizers a day. In the course of the project over 600 tons of fertilizers were produced, which completely satisfies regional needs.
- As a result of this project, local farmers will be saving up to 100,000 rubles a year on power consumption.

**Total project amount**  
\$44, 380

**Grantee contribution**  
**\$20, 000**

**Awarded grant**  
\$24, 380

## **Project**

### **Heating and hot water supply of administration buildings based on renewable energy sources**

**Organization:**

Ecology LLC

**Type of organization:**

business

**Start date** 01.10.2007

**End date** 31.07.2008

**Project summary:**

Replacement, in socially significant institutions, of hot water and heat supply systems working on dung brick fuel, firewood and partially on delivered coal and natural gas with solar energy complexes that fully satisfy the need in hot water in summer and off-season (from April to October). In winter, the solar energy systems are supplemented with small boiler plants allow saving over 50% of energy and producing 300 kW of heat energy a year.

**Location of dissemination:**

Kayakentsky and Sergokalinsky Raions, Republic of Dagestan

**Contact information:**

Ecologia LLC, 75 Yaranskogo St., Room 412 Makhachkala, Republic of Dagestan 367015

Tel. :(8722)62-93-76

**Project coordinator:**

Kazbek Guseinov, general director

**Project objectives:**

Saving energy through the use of solar energy for hot water supply and heating instead of using organic fuel.

Replacement of traditional hot water and heating supply systems in social services buildings (hospital, summer camp) with solar energy systems which primarily improved the living conditions of community members;

Reduction of the use of organic fuel (coal) that has to be purchased and is subsidized from the municipal budget - this allows reinvesting energy savings into the municipal budget for the introduction of energy-efficiency techniques.

**Final results:**

- 100 square meters of solar energy collecting panels generating 180 MW/h of heat energy a year were installed in the summer camp and hospital in Sergokalinsky Raion;
- The experience of Sergokalinsky Raion is being disseminated in Kayakentsky Raion where solar collectors are being installed in Izerbash Settlement at a company that employs physically disabled persons;
- 180,000 rubles of municipal funds are saved annually as a result of the energy-efficiency effort of the project with these energy savings being reinvested into developing the power industry of the region;
- 10 specialists were trained to service solar energy collecting panels; and the experience of Sergokalinsky Raions is being disseminated in Kayakentsky, Kaitagsky and Levashinsky raions.

**Total project amount**

\$41 250

**Grantee contribution**

\$18 000

**Awarded grant**

\$23 250

## **Project**

### **Processing agricultural produce, berries and medicinal herbs with the use of solar energy**

#### **Organization:**

Geothermics Institute of the Dagestan Research Center at the Russian Academy of Sciences

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 31.07.2008

#### **Project summary:**

The methods of heat drying of agricultural produce based on burning organic waste pollute the environment and lower the quality of ready goods, while the use of electric power for drying is connected with large expenses. To this end, and considering the growth of prices for organic waste, the use of non-traditional renewable resources and, in the first place, of solar energy for drying agricultural products is becoming a high-priority issue. In the southern regions of the country, open-air drying in the sun is the most commonly used method. However, it impairs quality due to possible contamination and the impact of ultraviolet rays. The most promising method is the use of high-efficiency modular helio-drying units, which use solar radiation that allows preserving the physical, chemical and organoleptic properties of ready products.

#### **Location of dissemination:**

Kayakentsky and Sergokalinsky Raions, Republic of Dagestan

#### **Contact information:**

39a I Shamilya pr., Makhachkala, Republic of Dagestan 367030

Geothermics Institute of Dagestan Research Center

Tel. (8722)62-93-57, fax (8722)62-93-57

#### **Project coordinator:**

Alibek Alkhasov, director of the Geothermics Institute of Dagestan Research Center

#### **Project objectives:**

Both Kayakentsky and Sergokalinsky raions have well-developed fruit growing and vine growing, as well as forests and alpine meadows abundant in wild fruit, berries and medicinal herbs. The majority of fruit is practically left unprocessed and is not dried because of the high cost of traditional heat-carrying agents and transportation. At the same time, there is a great market demand for local dried products (medicinal herbs, apricots, pears, dog rose, cornel, hawthorn, etc.). Solar drying units help solve the following problems:

- energy-efficiency – products dried in solar energy driers are organic and are characterized by high organoleptic properties;
- environmental – improve environmental health by replacing organic fuel with solar energy, thus reducing hazardous emissions to the atmosphere;
- social – creation of new jobs at helio-drying units, and providing vocations training to at least 100 young community members, thus promoting their involvement in the local food processing industry.

#### **Final results:**

- Installation of helio-drying units for drying fruit and medicinal herbs allows producing products with better organoleptic properties than during direct sun drying.

- Helio-drying units with a capacity of 100-120 kWt/day that also include systems for advance preparation of products were installed in the raion capitals: 2 in Kayakentsky Raion and 1 in Sergokalinsky Raion;
- Three drying points were set up in local schools: 2 in Sergokalinsky and 1 in Kayakentsky Raions;
- The decentralization of drying facilities lowers expenses for primary products transportation and also drying time (up to 40 hours for apples and apricots and up to 60 hours for grapes). The saved funds were be used for development programs in Kaitagsky and Buinaksky raions;
- The quality and content of the ready products undergoes inspection inspected and they are packed with the use of special equipment. Up to 100,000 t of fruit drop, 20 t of berries and medicinal herbs and 25 t of seedless grapes are processed during one summer season;
- Ten school teams are involved in picking berries and collecting medicinal herbs. Apart from receiving environmental training, the students, who stay at an environmental summer camp, are aslo remunerated for their work.

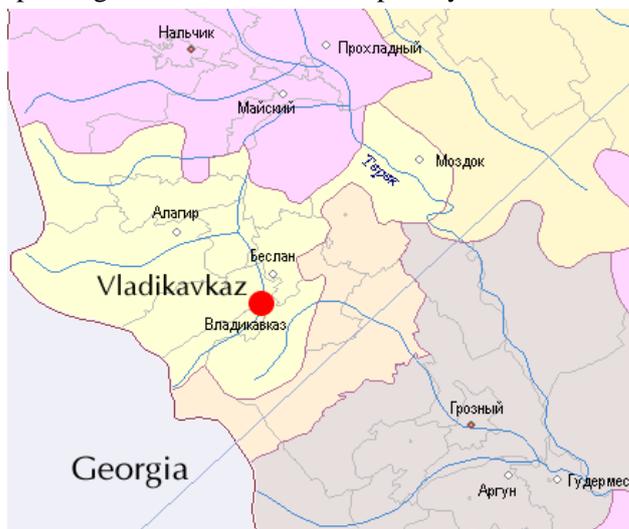
|                             |                             |                      |
|-----------------------------|-----------------------------|----------------------|
| <b>Total project amount</b> | <b>Grantee contribution</b> | <b>Awarded grant</b> |
| \$29, 755                   | \$12, 000                   | \$17, 755            |

## Project Complex

### Sapitskaya Budka Recreation Area

Requested amount \$64, 700 Grantee contribution \$105, 820 Total cost \$170, 520

1. Modernization of the energy-efficiency system in School # 29 in Vladikavkaz
2. Separate waste collection in Prigorodny Raion, Republic of North Osetia-Alania
3. Improving the environment of Sapitskaya Budka Recreation Area



#### Municipality Profile

Prigorodny Raion of Iristskiy Municipality in the Republic of North Osetia – Alania with a population of 40,000 borders on the city of Vladikavkaz. Sapitskaya Budka is the most popular recreation Area among the residents of Vladikavkaz. School # 29 is located on this area and its students include children from Prigorodny and other raions of Vladikavkaz.

#### Municipal problems addressed by the Project Complex

- Failure to meet temperature standards during winter in School # 29 because of obsolete window frames (the windows in the school’s gym, for example, have no glass at all and are covered with polyethylene). The lack of heat insulation around the heating pipes in the school building results in heat loss and the accumulation of moisture in the basement.
- High rate of respiratory illnesses among the pupils (up to 50% during winter) because of low indoor temperature and high humidity.
- Absence of a separate waste collection system considerably increases the cost of waste burying at the landfill. The use of chlorine-containing substances for disinfecting trash removal trucks, trash chutes and trash containers has a negative effect on the environment.
- The Sapitskaya Budka Recreation Area requires special development activities. Culture and sports events organized on this area by the public and local government will promote civic activeness and strengthen interaction between the community and the raion administration.

#### Synergetic effect of the Project Complex:

The Project Complex is targeted toward improving the social and economic situation in Prigorodny Raion. Multi-sector participation is confirmed by a Memorandum of Interaction. All the projects of the Consortium worked together: the pupils of School # 29 took an active part in improving the recreation area, where the Clean City Company organized separate waste collection.

An agreement has been reached with the Department of Education of Vladikavkaz Local Self-Government Administration on the reinvestment of funds saved as a result of the energy-efficiency project into a continuation of modernizing School # 29.

Interaction between the local residents and the city administration is being enhanced. Expenses for maintaining

educational institutions are decreasing. The general environmental situation in the recreation area in Prigorodny Raion is improving. The community is involved projects promoting the sustainable development of the municipality. A system for monitoring the area of Prigorodny Raion is being formed.

**Contact person of the Project Complex:**

Oleg Teziyev, chairman of Civic Initiative NGO

**Contact information:**

20Djanayeva St., Room 6, Vladikavkaz, Republic of North Osetia-Alania

Tel. (8672)53-53-34, e-mail [teziev@gmail.com](mailto:teziev@gmail.com)

**Organizations - members of the Project Complex**

| Title  | Category   | Profile  |
|--|------------|--|
| Civic Initiative, a regional public organization | non-profit | All-round assistance to community consolidation; promotion of public peace and social consensus; and establishment of inter-regional and international ties with stakeholders, legal entities and individuals. |
| Clean City Company                               | municipal  | Cleaning city streets and recreation areas and maintaining sanitary standards; and organizing collection, removal and burying of solid waste.  |
| Rakurs LLC                                       | business   | Collection and processing of waste and secondary resources; and philanthropic activities   |

**Duration (months)**

10

**Start date**

01/10/ 2007

**End date**

31/07/2008

## **Project**

### **Modernization of the energy-efficiency system in School # 29 in Vladikavkaz**

#### **Organization:**

Civic Initiative, a regional public organization

#### **Type of organization:**

Non-profit

**Start date** 01.10.2007

**End date** 31.07.2008

#### **Project summary:**

This project involves creating comfortable conditions for the teachers and pupils of School #29 by replacing old window units, installing energy-saving light fixtures inside and outside the school, modernizing the heating main, and improving the area around the school. The pupils and their parents will participate in sociality significant activities.

#### **Location of dissemination:**

Iristonskoye Municipality, Prigorodny Raion, Vladikavkaz, Republic of North Osetia-Alania

#### **Contact information:**

20Djanayeva St., Room 8, Vladikavkaz, Republic of North Osetia-Alania

Tel. (8672)53-53-04, e-mail [teziev@gmail.com](mailto:teziev@gmail.com)

#### **Project coordinator:**

Oleg Teziyev, chairman of Civic Initiative NGO

#### **Project objectives:**

- maintaining standard indoor temperature in School #29
- promoting civic activeness of the residents of Vladikavkaz and of nearby raions.

#### **Final results:**

- 40 old windows were replaced with new modern multiple glass units in School # 29 to increase indoor temperature.
- Repairing the heating pipeline and replacing pipe covering in the school's basement.
- Replacement of old lamps with new energy-efficiency ones in 50 classrooms and in the school yard.
- As a result of heat insulation work, power consumption dropped by 80% and heat consumption decreased by 50%.
- As a result of this project, 280,000 rubles are saved annually on heating the school's building and 120,000 rubles are saved on lighting.
- A 45-minute television program devoted to project results was prepared and aired in the Republic.
- Upon an agreement reached with the Vladikavkaz Department of Education, funds saved as a result of this project will be used for replacing old doors and modernizing classrooms in the school.

**Total project amount**

\$59, 200

**Grantee contribution**

\$34, 500

**Awarded grant**

\$24, 700

## **Project**

### **Separate waste collection in Prigorodny Raion**

#### **Organization:**

Clean City Company

#### **Type of organization:**

municipal

**Start date** 01.10.2007

**End date** 31.07.2008

#### **Project summary:**

Arranging a systems of separate solid household waste collection and processing; installing container sites for separate collection of waste; using special vehicles for removing separate types of waste; stopping the use of chlorine-containing cleaning agents and replacing them with safe ones for disinfecting dump trucks, trash chutes and trash containers; advertising separate waste collection in the community; opening trash drop-off centers; introducing various measures of influencing violators of sanitary standards; and, consequently, improving the environmental situation in the community.

#### **Location of dissemination:**

Iristonskoye Municipality, Prigorodny Raion, Vladikavkaz, Republic of North Osetia-Alania

#### **Contact information:**

76Iristonskaya St., Vladikavkaz, Republic of North Osetia-Alania

Tel./fax (8672)74-85-10

#### **Project coordinator:**

Mairbek Burnatsev, deputy director of Clean City Company, a municipal enterprise

#### **Project objectives:**

Improving the environment in the community through removing to the city landfill a smaller share of solid household waste. This will increase the time of the landfill's existence and also raise awareness among community members regarding attitudes to cleanliness. The project will help save natural and energy resources and reduce hazardous emissions to the atmosphere and soil contamination. The collected waste will be 100% recycled, and new disinfecting agents not containing chorine will be used.

#### **Final results:**

- Introduction of a separate waste collection system in Iristonsky Municipality that includes 5 container sites with 20 containers.
- From 115,000 to 130,000 cubic m of waste suitable for processing and recycling is recovered every year.
- 20% less of waste is now buried on the landfill, thus decreasing corresponding payments.
- Chlorine-containing substances are no longer used for disinfecting trash removal trucks, trash chutes and trash containers and instead of them substances not containing active chlorine compounds and not harming the environment are used.
- Advertising separate waste collection, a TV program, and a regional seminar on solid household waste management facilitated public participation in addressing the issue of waste utilization.

**Total project amount**

\$62, 540

**Grantee contribution**

\$42, 540

**Awarded grant**

\$20, 000

## **Project**

### **Improving the environment of Sapitskaya Budka Recreation Area**

**Organization:**

Rakurs LLC

**Type of organization:**

business

**Start date** 01.10.2007

**End date** 31.07.2008

**Project summary:**

Setting up waste collection points, cleaning the area from trash and fallen trees, renovating the suspended bridge and installing new lampposts.

**Location of dissemination:**

Iristonskoye Municipality, Vladikavkaz, Republic of North Osetia-Alania

**Contact information:**

20Djanayeva St., Room 8, Vladikavkaz, Republic of North Osetia-Alania  
Tel.(8672)44-42-89

**Project coordinator:**

Ilya Tskhovrebov, director of Rakurs LLC

**Project objectives:**

Improvement of the environment in the recreation area: removing trash, installing illumination and amenities, organizing permanent supervision of the area and promoting socially responsibly attitudes among community members regarding the condition of the area.

**Final results:**

- Restoration of the infrastructure of Sapitskaya Budka Recreation Area: improving the 3-4 km environmental trail in the park, including the installation of 30 streetlights with energy-saving lamps and restoring the suspended bridge over the ravine;
- Renovation of the suspended bridge over the ravine;
- Cleaning areas of the park from trash and fallen trees and removing over 30 t of trash to the landfill.
- Restoration of the depleted park area by planting over 150 coniferous trees;
- Increasing community participation: over 100 volunteers took part in improving the recreation area during the events of the “Clean Nature for Our Children” initiative.

**Total project amount**

\$48, 780

**Grantee contribution**

\$28, 780

**Awarded grant**

\$20, 000

## Project Complex

### Sustainable development of a traditional community

Requested amount \$53, 291    Grantee contribution \$39, 679    Total cost \$92, 970

#### Thematic projects included in the Project Complex:

1. Energy-saving in Tarbagataisky Raion – conversion of coal-burning boiler plants to the use of alternative fuel.
2. Warmth in Solnyshko Kindergarten (saving energy and heat and improving child health).
3. Investing in warmth – reinvesting in wellbeing (reinvestment of energy savings into social programs).



#### Municipality Profile

Tarbagataisky Raion in the Republic of Buryatia with a population of 16,000 is located 60 km from Ulan-Ude. It is one of the world's largest communities of Semeiskie Old Believers (Starovery), whose ethnic culture is on the UNESCO Intangible Culture World Heritage List. In 2007, the First Old Believers World Congress was held in Tarbagataisky Raion.

#### Municipal problems addressed by the Project Complex

- High energy consumption by local heat supply systems (from 967 to 1,470 rub./1 Gcal) and high housing and communal services rates that account for over 12% of family incomes, since the boiler plants work on local poor-quality coal and electricity, with the deterioration of equipment exceeding 90%.
- High emissions of pollutants to the atmosphere (320 t/year) due to the large number of coal-burning boiler plants and the proximity (75 km) of a coal strip mine.
- Low indoor temperature in most of the local kindergartens (14-16<sup>0</sup>, while the required standard is 20-22<sup>0</sup>) as a result of the shutdown of local enterprises and a subsequent disconnection of kindergartens and other organizations from the central heating system; and the use of electric heaters.
- High rate of respiratory illnesses among children (over 20 sick days per one child a year) caused by low indoor temperature and a lack of conditions allowing to harden the children and improve their health.
- Inadequate social financing of rural communities.

#### Synergetic effect of the Project Complex:

The Complex consisting of a variety of interconnected projects and supported by the local administration and all sectors of the community (see Memorandum on Interaction signed by the members of the Consortium) promotes a synergetic effect of the projects and the sustainable development of the community. Project activities aimed at saving resources and cutting expenses for heating in educational institutions create conditions for improving children's health and raising additional funds to be reinvested through the open and transparent mechanism of the local community fund into municipal social programs.

**Contact person of the Project Complex:**

Olga Lotsman, deputy head of Tarbagataisky Municipality and head of Finances and Economic Development Department

**Contact information:**

7Nekarasova St., Tarbagatai Settlement, Republic of Buryatia

Tel. (830146)55-5-04, fax (830146)55-6-58, e-mail [admtrb@icm.buryatia.ru](mailto:admtrb@icm.buryatia.ru)

**Organizations, members of the Project Complex**

| <b>Title</b>   | <b>Category</b> | <b>Profile</b>   |
|--|-----------------|--|
| Heating Networks LLC   | business        | Operation of boiler plants; repair and maintenance of central heating boilers; and assembly, repair and maintenance of steam boilers.    |
| Solnyshko Kindergarten   | municipal       | Educational activities.  |
| Small Business and Rural Development Support Fund of Tarbagataisky Raion | municipal       | Creation of conditions for supporting small businesses in rural areas and the fulfillment of community support and development programs. |

**Duration (months)**

10

**Start date**

01/10/ 2007

**End date**

31/07/2008

## **Project**

### **Energy-saving in Tarbagataisky Raion – conversion of coal-burning boiler plants to the use of alternative fuel**

#### **Organization:**

Heating Networks LLC

#### **Type of organization:**

business

**Start date** 01.10.2007

**End date** 31.07.2008

#### **Project summary:**

Installation of less energy-intensive boilers in two schools in N-Zhirim and Khanagatai settlements, the central library in Tarbagatai Settlement and in community centers in Kharitonovo and Burnashevo settlements; training the personnel to handle new equipment; monitoring energy-consumption and estimating the size of energy-savings; reinvesting energy-savings through the Small Business and Rural Development Support Fund into social programs in the community; and, as a result, replicating project results to other boiler plants of the municipality.

#### **Location of dissemination:**

Tarbagataisky Municipality, Republic of Buryatia

#### **Contact information:**

7Nekarasova St., Tarbagatai Settlement, Republic of Buryatia

Tel. (830146)55-5-04, fax (830146)55-6-58

#### **Project coordinator:**

Olga Lotsman, deputy head of Tarbagataisky Municipality and head of Finances and Economic Development Department

#### **Project objectives:**

- Reduction of excessive energy-consumption in five social institutions and economy of municipal budget funds to be channeled to addressing local social issues;
- Reduction of hazardous emissions from the burning of high-ash coal in the boiler plants of the community and improvement of the environment.

#### **Final results:**

- Modernization of six boiler plants (in two Houses of Culture, three schools, and a municipal library) involving the replacement of obsolete coal-burning and electric boilers with seven low-consumption combined gas generating and water heating boilers burning wood waste.
- Reduction of power consumption by 21,700 kW/h (by 30 %) and coal consumption by 125 t (by 60%) and an improvement of the quality of municipal services.
- 153,400 rubles of municipal budget funds were saved as a result of energy-saving and decreased expenses for fuel and its transportation ;
- Improvement of the environment as a result of reduced high-ash coal consumption and a 13% (8.9 t) decrease of hazardous emissions to the atmosphere;
- The adoption by Tarbagataisky Raion Administration, upon the initiative of this project and the other projects of the consortium, of Ordinance # 274 of 04.07.2008 on the procedure of reinvesting energy savings in 2008-2010 through the introduction of amendments to the 2008-2010 Raion Energy-Efficiency Program;
- The project complex's results of energy-efficiency activities and reinvestment of energy savings were presented (together with the other projects of the consortium) to Republic of Buryatia Energy-Efficiency Board;
- Increasing public awareness about energy-efficiency by conducting training seminars devoted to energy-saving techniques in cooperation with the local Small Business and Rural Development Support Fund (Project # 3).

**Total project amount**

\$37, 518

**Grantee contribution**

\$13, 018

**Awarded grant**

\$24, 500

## **Project**

### **Warmth in Solnyshko Kindergarten (saving energy and heat and improving child health)**

#### **Organization:**

Solnyshko Kindergarten

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 31.07. 2008

#### **Project summary:**

Replacing of electric panel heaters; installing boilers working on wood waste; insulating windows and doors; resuming children's hardening activities and general health improvement measures that will be replicated in other pre-school institutions; reinvesting energy savings into small social projects in children's institutions through the Small Business and Rural Development Support Fund.

#### **Location of dissemination:**

Tarbagataisky Municipality, Republic of Buryatia

#### **Contact information:**

66Pushkina St., Tarbagatai Settlement, Republic of Buryatia

Tel. (30146)55-2-76, fax (30146)55-2-39

#### **Project coordinator:**

Zinaida Trifonova, head of Tarbagataisky Municipality Education Department

#### **Project objectives:**

- Improving the heating system in the kindergarten that was disconnected from the central heating system and is currently using fire-hazardous electric heaters; and insulating the rooms in the building;
- Creation of comfortable conditions and maintenance of a normal indoor temperature in the kindergarten, a large part of which is not used because of low indoor temperature – these measures allow to accept a larger number of children in need of pre-school care;
- Improving child health;
- Reducing fire danger in the kindergarten;
- Decreasing expenses for heat and power supply and maintaining the building - this is of special importance in view of the constant growth of power rates.

#### **Final results:**

- Modernization of the heat supply system in the kindergarten (replacement of hazardous electric heaters and installation of module boiler equipment with boilers working on wood waste) and a 57.2% (21,800 rub.) reduction of energy costs;
- Winterization of the kindergarten building (replacement of 13 window and 3 entrance door units with new ones) and the establishment of an optimal temperate mode in the kindergarten (20-22 0C);
- Development and implementation of a region-specific Integrated Child Health Improvement and Hardening Program for 43 children that includes athletics;
- Improvement of child health and reduction of the rate of respiratory illnesses - decreasing the number of sick days per one child by 30% (from 15.7 to 4.9);
- The conversion to the use of wood waste supplied by woodworking companies located in Nikolayevsky Settlement allowed to resolve, to a considerable degree, the problem of littering and to improve the environment in the settlement.

**Total project amount**  
\$27, 660

**Grantee contribution**  
\$10, 660

**Awarded grant**  
\$17, 000

## Project

### Investing in warmth – reinvesting in wellbeing (reinvestment of energy savings into social programs)

**Organization:**

Small Business and Rural Development Support Fund of Tarbagataisky Raion

**Type of organization:**

NGO

**Start date** 01.10.2007

**End date** 31.07.2008

**Project summary:**

Founding a department for managing funds saved as a result of energy-efficiency at the Small Business and Rural Development Support Fund; conducting training seminars for the rural population devoted to the role of community members in improving social conditions and on the importance of energy and heat saving activities, and on health improvement (in the first place, of children); contests of small social projects aimed at providing support to children, young community members and the less socially protected strata of the population; designing a program for the Small Business and Rural Development Support Fund intended for managing off-budget projects and ensuring a long-term impact of the projects; and making amendments to the 2007-2008 Energy-Efficiency Program on energy-savings reinvestment.

**Location of dissemination:**

Tarbagataisky Municipality, Republic of Buryatia

**Contact information:**

Lenina St., Tarbagatai Settlement, Republic of Buryatia 671110

Tel. (30146)55-5-99, fax (30146)55-2-89

**Project coordinator:**

Marina Ryzhanova, lead specialist at the Social Protection Department of the Republic of Buryatia Ministry of Labor and Social Development Division in Tarbagataisky Raion

**Project objectives:**

- Creation at the local community fund of an energy savings reinvestment fundraising mechanism for supporting social development community programs aimed at improving the conditions of life of the local population;
- Public participation in addressing social issues in the community (public opinion polls to identify priority social areas and conducting a contest of small social projects);
- Development of philanthropy on a community level and creating a system of corporate and private donor donations to the community through the local community fund.
- Increasing public awareness and promoting stronger civic initiatives among community members.

**Final results:**

- The adoption by Tarbagataisky Raion Administration, upon the initiative of this project and the other projects of the consortium, of Ordinance # 274 of 04.07.2008 on the procedure of reinvesting energy savings in 2008-2010 through the introduction of amendments to the 2008-2010 Raion Energy-Efficiency Program
- A study of public opinion was conducted in the community among 482 respondents to identify social development priorities; the results of this study showed the high degree of readiness of the community to participate in social actions;
- The Fund's program for managing non-budget funds was developed;
- Two raion contests of small social projects were held under which 13 projects (of the 30 proposals) were funded that were aimed at supporting children, youth and socially unprotected categories of the population;
- 14 training seminars were organized (attended by 330 community members) devoted to legal questions, the advantages of energy-efficiency programs, preservation of local traditions and culture, and public participation in local decision-making;
- The results of the project complex achieved in developing energy-efficiency and reinvesting energy savings were presented to the Republic of Buryatia Energy Efficiency Board (together with the other projects of the consortium);
- The course of project activities was broadly disseminated in the community (120 information leaflets were distributed) and covered in the local media.

**Total amount**

\$27, 791

**Grantee contribution**

\$16, 000

**Awarded grant**

\$11, 791

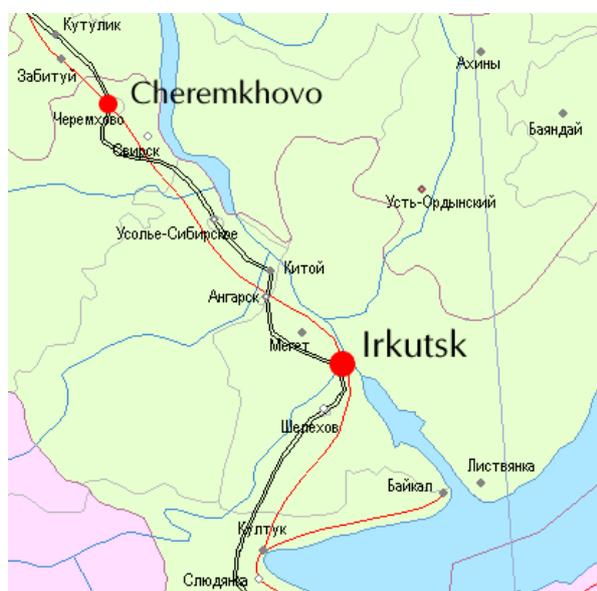
## Project Complex

### The key to our success is the initiative of everyone – sustainable development in Cheremkhovo Municipality

Requested amount \$55, 897    Grantee contribution \$63, 989    Total cost \$119, 886

#### Thematic projects included in the Project Complex:

1. From Metering to Saving – partial renewal and adjustment of heating systems in five educational institutions and installation of heating and hot water flow meters.
2. Yes to Health! – improving the area around the kindergarten.
3. Regular Meals – Healthy Students – organizing hot meals in schools.
4. A Sound Mind in a Sound Body – upgrading the school’s gym and improving the quality of physical training.



#### Municipality Profile

Cheremkhovo is a city in Irkutsk Oblast with a population of 54,800 located 131 km from Irkutsk at the Trans-Siberian Railroad. It is one of the country’s oldest coal mining regions.

#### Community problems addressed by the Project Complex:

- High power and heat rates at municipal educational institutions because of the absence of energy and hot water meters.
- Health impairment and high risk of illnesses among children (colds; delayed physical development (by up to 25%); and disorders of the digestive, locomotor, immune and musculoskeletal systems) and frequent days missed at school.
- Lack of wholesome hot meals in schools due to the outdated equipment of school kitchens.
- Absence of well-equipped gyms at many schools because of deficient municipal funding (the 2007 Cheremkhovo Municipal Budget deficit is 145%).
- Low community involvement in addressing local social concerns; a lack of a mechanism of reinvesting energy savings; and inadequate experience in managing non-budget projects.

#### Synergetic effect of the Project Complex:

Ensuring a systemic impact of the projects through their implementation in the social sector, i.e., in children’s institutions. Energy-efficiency techniques and activities to lower the cost of heating at five educational institutions of the city generate additional funds that will be reinvested through the Cheremkhovsky Philanthropic City Foundation to address social concerns of the community, such as: improving child health;

assisting disadvantaged categories of the population; and further solving energy-efficiency problems of the city. Projects aimed at improving children's institution helped form a healthy young generation and form a human capital in the community. The implementation of a complex of versatile and interlinked projects is supported by local government and all sectors of the community (see Memorandum of Interaction signed by the members of the Consortium). This ensures the sustainability of project results and their integrated synergetic effect. The project complex was carried out in the framework of the Cheremkhovo Middle-Term Integrated Social and Economic Development Program scheduled to 2012. Project experience will be used as an example for replication by the Association of Siberian and Russian Far East Cities on the basis of cooperation agreements.

**Contact person of the Project Complex:**

Rita Bocharnikova, chair of the Department for Economic Development and Trade at Cheremkhovo Municipal Administration

**Contact information:**

6 F.Praki St., Cheremkhovo, Irkutsk Oblast  
 Tel.(839546)5-27-89, fax (839546)5-14-37, e-mail [invest@admcher.ru](mailto:invest@admcher.ru)

**Organizations, members of the Project Complex:**

| <b>Title</b>  | <b>Category</b> | <b>Profile</b>  |
|---|-----------------|---|
| Department of Education at Cheremkhovo Administration | Municipal       | Planning, organizing, regulating and controlling the activities of municipal educational institutions in pursuance of the government's policy in the sphere of education. |
| Kindergarten # 7                                      | Municipal       | Preschool education; improvement of child health through systematic athletic and health activities; and promoting child creativity and intellectual development.          |
| Ostrovsky General Education School # 3                | Municipal       | General education.  |
| General Education School # 32                         | Municipal       | General education.  |

**Duration (months)**                      12    **Start date**      01/10/2007    **End date**                      30/09/2008

## **Project**

### **From Metering to Saving – partial renewal and adjustment of heating systems in five educational institutions and installation of heating and hot water flow meters**

#### **Organization:**

Department of Education at Chermkhovo Administration

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 31.07.2008

#### **Project summary:**

Service inspection and partial repair and adjustment of heating systems in five educational institutions of the city; installation of power and hot water flow meters and heat energy consumption controllers; monitoring children's health and heat consumption; and reinvesting energy savings.

#### **Location of dissemination:**

Chermkhovo Municipality, Irkutsk Oblast

#### **Contact information:**

28 D.Sobytii, Chermkhovo, Irkutsk Oblast 665413

Tel. (39546)5-30-67, fax (39546)5-12-38, e-mail [Cher\\_goruo@land.ru](mailto:Cher_goruo@land.ru)

#### **Project coordinator:**

Ludmila Tkayeno, head of the Technical Maintenance Department of the Board of Education at Chermkhovo Administration

#### **Project objectives:**

- Increasing the efficiency of heat supply systems, reducing payments for excess heat energy and hot water consumption, and reducing the high power and heating rates in children's institutions;
- Maintaining stable indoor temperature and reducing the risk of colds in children attending kindergartens;
- Public education programs to increase awareness about an economical consumption of energy resources.

#### **Final results:**

- Inspection of elevator units and replacement of elevators; partial repair and tuning of the heating systems; and installation of five heating meters and hot water regulators in two schools and three kindergartens of the city;
- A 20% reduction of heat energy consumption (625 Gcal) and a 15% (863 m3) reduction of hot water consumption ;
- A total of 6.5% (61,000 rub.) of municipal budget funds was saved and reinvested into energy-efficiency activities and improvement of children's health;
- Establishment of an optimal temperature mode and comfortable conditions for 1,623 children and staff in five children's institutions and improved quality of educational services;
- Creation of three new jobs for personnel servicing heating units.
- Saved funds and those raised from Chermkhovsky City Philanthropic Fund and AB Technology LLC were used for conducting a contests of small social projects aimed at addressing problems of children's institutions (improving lots, sports development, health improvement).

#### **Total project amount**

\$40, 965

#### **Grantee contribution**

\$16, 048

#### **Awarded grant**

\$24, 917

## **Project**

### **Yes to Health! – improving the area around the kindergarten**

#### **Organization:**

Kindergarten # 7

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 30.09.2008

#### **Project summary:**

Improving the kindergarten's yard (6,535 m<sup>2</sup>): planting a "green zone"; building playgrounds with garden houses and benches, a summer stage and a mini-soccer field; installing sports equipment; and repairing the small swimming pool and stairways.

#### **Location of dissemination:**

Cheremkhovo Municipality, Irkutsk Oblast

#### **Contact information:**

164 Pervomaiskaya St., Cheremkhovo, Irkutsk Oblast 665408

Tel.(39546)5-54-22, fax (39546)5-60-00

#### **Project coordinator:**

Yevgeni Skopintsev, director of Cheremkhovtsy Philanthropic City Foundation

#### **Project objectives:**

- Creation of comfortable conditions and facilities for athletic activities for children in the yard of the kindergarten;
- Improving the health of children attending the kindergarten and those living nearby who will be using the playground of this children's institution; and promoting a reduction of colds and illnesses connected with the locomotor system.
- Involving community members in activities aimed at improving the area around the kindergarten and increasing civic awareness.

#### **Final results:**

- The lot of Kindergarten # 7 (attended by 315 children or 21% of all children living in Kuibyshevsky housing development) was improved and now includes a mini soccer field, four pavilions, a roofed playground, three stairways, a splash pool and athletic equipment;
- Reduced rate of respiratory illnesses by 30% (54 cases a year) among children attending the kindergarten and improved physical fitness and body posture of children ( 40% of the identified cases);
- Broad volunteer involvement in project activities, including the pupils of Vocational School # 9, parents, members of the Pensioners' Council, and community members

#### **Total project amount**

\$10, 319

#### **Grantee contribution**

\$3, 591

#### **Awarded grant**

\$6, 728

## **Project**

### **Regular Meals – Healthy Students – organizing hot meals in schools**

#### **Organization:**

N.Ostrovsky Middle General Education School

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 31.07.2008

#### **Project summary:**

Installing modern equipment in the school's kitchen that allows to quickly prepare good-quality meals; delivery of meals to other schools of the city; providing meals to 3, 103 pupils (or 49% of the town's schoolchildren) from low-income families.

#### **Location of dissemination:**

Cheremkhovo Municipality, Irkutsk Oblast

#### **Contact information:**

1Kopeisky Pereulok, Cheremkhovo, Irkutsk Oblast 665413

Tel./fax(39546)5-66-43, e-mail [School3ch@rambler.ru](mailto:School3ch@rambler.ru)

#### **Project coordinator:**

Victor Yurin, headmaster

#### **Project objectives:**

- Creating a system for preparing hot meals for schoolchildren, which is currently impossible because of the current use of obsolete equipment in the kitchens of the city's schools;
- Reducing the high risk of intestinal diseases among schoolchildren (16% of the total number of students in School # 3), improving the immune and musculoskeletal systems of children and reducing the frequent instances when children miss school because of illnesses.

#### **Final results:**

- Modernizing the school cafeteria by installing modern equipment for preparing hot meals for 620 schoolchildren;
- Organizing a system of delivering lunches to 4 and by the end of the year to 10 educational institutions of the city to provide hot meals for 3,103 schoolchildren (40% of all the city's schoolchildren) and free meals for children from low-income families at the cost of municipal budget funds;
- Establishing a city school catering complex at the school and creating 9 new jobs - which is important for Cheremkhovo with its high level of unemployment ;
- A 30% reduction of gastrointestinal diseases among pupils (32 visits to doctors as compared with 98 during the previous year) – according to regular monitoring of the health of 620 children.
- Increased activeness of the students who decorated the school cafeteria with drawings and ornaments and create “green islands” of houseplants in the school.
- The school won an award of 75,000 rubles for strengthening the health of the pupils at a contest Cheremkhovo – City of Friendship.

**Total project amount**  
\$16, 250

**Grantee contribution**  
\$7, 039

**Awarded grant**  
\$9, 211

## **Project**

### **A Sound Mind in a Sound Body – upgrading the school’s gym and improving the quality of physical training**

#### **Organization:**

Middle General Education School # 32

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 31.07.2008

#### **Project summary:**

Modernization of the school’s gym and purchase of modern athletic equipment.

#### **Location of dissemination:**

Cheremkhovo Municipality, Irkutsk Oblast

#### **Contact information:**

50Dekabrskikh sobytii St., Cheremkhovo, Irkutsk Oblast 665413

Tel. (39546)5-05-36, e-mail [school322006@rambler.ru](mailto:school322006@rambler.ru)

#### **Project coordinator:**

Galina Kislova, gym teacher

#### **Project objectives:**

- Restoring the school’s gym that has been closed for over 10 years;
- Creating conditions for sports training and organizing after-school athletic activities for schoolchildren;
- Promoting the benefits of healthy life styles among the youth, which is in line with the government’s youth policy and which facilitates the formation of new values and behavioral standards among the youth.

#### **Final results:**

- Overhauling and equipping the school’s gym, which was not used for 10 years, to make it suitable for regular athletic training of 500 students and staff; improving the quality of gym lessons; and including in the weekly curricula 3 hours of physical education;
- Providing conditions for preserving and improving the health of over 500 people through regular physical culture lessons - as a result, the rate of respiratory illnesses among the students reduced by 20% and the locomotor systems were improved in 30% of students (as compared with the previous year);
- Organizing healthy after-school activities for the students; holding 94 school tournaments; and sponsoring athletic, health and hiking activities for over 1,000 people and students from neighboring schools. The students of the school actively participate in city tournaments winning many prizes.
- Enhancing public awareness about the role of sports in strengthening health and reducing disease risk; and conducting three training seminars on this topic for students, teachers, parents and community members (up to 800 attendees).

#### **Total project amount**

\$52, 351

#### **Grantee contribution**

\$37, 311

#### **Awarded grant**

\$15, 040

## Project Complex

### Sustainable development of Sikachi-Alan, Ilyinka and Malyshevo settlements in Khabarovsk Krai

Requested amount \$46, 000    Grantee contribution \$27, 162    Total cost \$73, 162

#### Thematic projects included in the Project Complex:

1. An alternative source of energy using solar heat for heating water at the Educational Center in Sikachi-Alan Settlement
2. Sikachi-Alan Petroglyphs – a key to community development
3. Founding an ethnographic museum in Sikachi-Alan to promote integration of friendly cultures
4. Reviving a traditional culture to advance economic and spiritual development of small Arctic indigenous peoples



#### Municipality Profile

The community (with a total population of 4,418) consists of three rural settlements: Sikachi-Alan and Malyshevo inhabited by indigenous Arctic peoples; and Ilyinka, a Russian settlement situated along Amur River.

Sikachi-Alan has 334 residents and is an ancient Nanaj settlement, which has been in existence for many thousands of years.

Sikachi-Alan Petroglyphs, an architectural monument, is the remarkable sight of the settlement dated 12 century BC. This unique rock painting is a popular tourist attraction and an object of pride of the local population.

#### Community problems addressed by the Project Complex:

- High unemployment level.
- The equipment of the social and educational complex in Sikachi-Alan does not meet existing sanitary standards (there is no hot water in the kitchen).
- Loss of traditional culture skills and folk art techniques by the indigenous population.
- Extremely low level of transportation and communal infrastructures in the settlements.
- Poor health of the residents of the settlements and alcohol abuse by the entire male population.

#### Synergetic effect of the Project Complex:

The Project Complex helped resolve community problems related both to infrastructure and to unemployment. Each project supplements the other ones in creating a cultural and ethnographic center in the three villages of the community that most fully promote the historic and recreational potential of the area. Moreover, the appearance of new jobs helps checking the extremely negative tendency of alcoholization of the local population; and the reduction of expenses for heating water allows investing more into community development. The legal mechanism of reinvesting energy savings was established in Decree # 133 of June 22,

2005, issued by the Head of Khabarovskoy Municipality “On the approval of the ordinance on the order of determining and using local budget savings from payments for electricity, heat and hot water in accordance with the readings of flow meters installed in municipal institutions in Khabarovskoy Municipality”.

**Contact person of the Project Complex:**

Nina Druzhinina, head of Sikachi Alan Settlement, Khabarovskoy Raion, Khabarovsk Krai

**Contact information:**

1 Oktyabrskaya St, Sikachi Alan Settlement, Khabarovskoy Raion, Khabarovsk Krai

Tel. (4212)93-43-23

**Organizations – members of the Complex**

| <b>Title</b>   | <b>Category</b> | <b>Profile</b>   |
|--|-----------------|--|
| Kindergarten in Sikachi-Alan, a municipal pre-school educational institution.  | municipal       | Educational activities.  |
| Sikachi-Alan Rural Settlement Administration.  | municipal       | Municipal governance, coordination of the activities of social institutions, and protection of citizen interests.  |
| Middle education school in Sikachi-Alan, a municipal education situation.  | municipal       | Educational activities.  |
| Cultural and Entertainment Complex at Sikachi-Alan Rural Settlement Administration, a municipal cultural institution | Municipal       | Cultural and educational activities, organization of mass cultural events, and additional education for the youth. |

**Duration (months)**

5

**Start date**

01/10/2007

**End date**

29/02/2008

## **Project**

### **Alternative source of energy using solar energy for heating water at the Educational Complex in Sikachi-Alan Settlement**

#### **Organization:**

Kindergarten in Sikachi-Alan

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 31.12.2007

#### **Project summary:**

Installing solar energy collecting panels, that allow to save 60% of electric power a month. The savings will be used for more frequent trash and household waste removal.

#### **Location of dissemination:**

Sikachi Alan, Ilyinka and Malyshevo settlements, Khabarovsky Raion, Khabarovsk Krai

#### **Contact information:**

70 Karla Marksa St., Tekhnonest-DV LLC, Khabarovsk 680000,

Tel./fax (4212)31-44-91, e-mail [Mobil52@yandex.ru](mailto:Mobil52@yandex.ru)

#### **Project coordinator:**

Alexander Shevchenko, consultant

#### **Project objectives:**

There is no hot water in the kindergarten and middle school in Sikachi Alan Settlement. Water for preparing food and washing dishes is heated by heavy-duty electric devices, which considerably reduce voltage in the power network. The use of solar energy collecting panels considerably reduced pressure on the local electric power substation and eliminated the frequent power cuts caused by network overloading. The collectors do not use organic, chemical, nuclear or other types of fuel that pollute the environment.

#### **Final results:**

- Four solar energy collecting panels with a capacity of 16 kWt/h and tanks for accumulating warm water with a total capacity of 4,000 liters were installed;
- The educational complex was provided with water year-round supply of hot water;
- An average of 2,000 kW a month is now saved.

**Total project amount**

\$16, 308

**Grantee contribution**

\$1, 308

**Awarded grant**

\$15, 000

## **Project**

### **Sikachi-Alan Petroglyphs – a key to community development**

#### **Organization:**

Sikachi Alan Settlement Administration

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 30.11.2007

#### **Project summary:**

Project activities included laying two 10-m surface-water drainpipes at the inundated lower part of the road to provide drainage; filling 400 m of the road with gravel and crushed rock; repairing remaining parts of the road along M.Passara Street. The new storm drain will improve the condition of the soil around the road and prevent erosion.

#### **Location of dissemination:**

Sikachi Alan, Ilyinka and Malyshevo settlements, Khabarovsky Raion, Khabarovsk Krai

#### **Contact information:**

1 Oktyabrskaya St., Sikachi Alan Settlement, Khabarovsky Raion, Khabarovsk Krai 680526

Tel. (4212)93-43-23

#### **Project coordinator:**

Nina Druzhinina, head of Sikachi Alan Settlement Administration

#### **Project objectives:**

The most critical local problems are the social deprivation of the population resulting from unemployment and low incomes and an underdeveloped infrastructure. Worn-down roads worsen the quality of life in rural settlements and prevent the development of tourism, making trips to the Nanaj settlement to view the unique monument of ancient rock painting, Sikachi Alan Petroglyphs, an unpleasant experience. The settlement could develop through the provision of tourist services, but because of the difficult access to the sites with Petroglyphs, it is hardly visited. Addressing the problem of worn-down roads may lead to an improvement of life in the settlement that will be visited by greater numbers of guests, since the local residents will be selling more souvenirs.

#### **Final results:**

- The repaired road provides access for tourists to the Petroglyphs;
- Community members have an opportunity to earn money on selling souvenirs and taking tourists to the Petroglyphs site;
- 34 out of 120 residents of Sikachi-Alan work in the sphere of creating and selling souvenirs;
- Khabarovsk Raion Administration granted over \$25,000 for asphaltting the road in 2009;
- Community members also took part in the projects: seven families and local entrepreneurs paid for the delivery of crushed stone for the road and over 40 volunteers helped with road repairs.

**Total project amount**

\$31, 602

**Grantee contribution**

\$11, 602

**Awarded grant**

\$20, 000

## **Project**

### **Founding an ethnographic museum in Sikachi-Alan to promote integration of friendly cultures**

#### **Organization:**

Middle General Education School in Sikachi Alan

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 31.01.2008

#### **Project summary:**

Organizing a museum in two rooms on the ground floor of the Education Complex; creating two models of Nanaj dwellings; building an entrance and partitions; and installing two doors.

#### **Location of dissemination:**

Sikachi Alan, Ilyinka and Malyshevo settlements, Khabarovsky Raion, Khabarovsk Krai

#### **Contact information:**

1aOktyabrskaya St., Sikachi Alan Settlement, Khabarovsky Raion, Khabarovsk Krai 680526

Tel./fax (4212) 93-42-51, e-mail [sik-shkola@yandex.ru](mailto:sik-shkola@yandex.ru)

#### **Project coordinator:**

Ludmila Passar, headmistress of the Middle General Education School in Sikachi Alan Settlement

#### **Project objectives:**

The residents of this Nanaj settlement are unable to derive income from tourist services that are provided by travel agencies from Khabarovsk, which organize excursions for tourists to the Sikachi Alan Petroglyphs without coordinating with the local community and without investing in the protection and maintenance of the monument. The appearance of a museum will promote tourism development and, thus, bring additional revenue to the community.

#### **Final results:**

- Two rooms were prepared for the museum and five museum stands were acquired;
- Full-scale models of medieval and ancient dwellings of small indigenous Arctic peoples were created;
- Using own means, the project installed a fire and security alarm system and electricity; and signs were made;
- 500 advertising booklets were printed;
- A plan of excursions was developed; 150 visitors come to the museum each month.

#### **Total project amount**

\$8, 453

#### **Grantee contribution**

\$3, 253

#### **Awarded grant**

\$5, 200

## **Project**

### **Reviving a traditional culture to advance economic and spiritual development of small Arctic indigenous peoples**

#### **Organization:**

Culture and Entertainment Center of Sikachi Alan Settlement Administration

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 29.02.2008

#### **Project summary:**

Training 30 persons in creating folk craft items (this request was contained in applications filed by unemployed community members) on the basis of an agreement with the administrations of the three settlements and the Employment Center. Grant funds will be used for covering the travel expenses of instructor who will come to Ilyinka and Malyshevo settlements, for acquiring tools and installing five leather-processing shops. The Employment Center will pay monthly allowances of 864 rubles to the 30 attendees of the training in the course of five months and salaries to the three instructors.

#### **Location of dissemination:**

Sikachi Alan, Ilyinka and Malyshevo settlements, Khabarovsky Raion, Khabarovsk Krai

#### **Contact information:**

1Oktaybrskaya St. Sikachi Alan Settlement, Khabarovsky Raion, Khabarovsk Krai 680526

Tel. (4212)93-43-23

#### **Project coordinator:**

Irina Birulyova, director of the Culture and Entertainment Center.

#### **Project objectives:**

This project helps restore the skills of the national Nanaj culture. Young and middle age community members do not know how to create traditional articles from wood, birch bark, wicker and fish skin or how to collect and store natural materials. Developing tourism in this locality with the aim of lower unemployment and giving community members an opportunity to earn a living. This, in turn, will promote economic and community development.

#### **Final results:**

- 30 community members underwent vocational training in such vocations as “Creation of objects of folk art from wicker, birch bark, wood, and fish skin” and received corresponding certificates;
- A workshop was equipped for producing souvenirs from fish skin, wood, birch bark and wicker;
- A system of selling souvenirs to tourists was established;
- New jobs were created for local residents in the souvenir industry.

**Total project amount**

\$16, 798

**Grantee contribution**

\$10, 998

**Awarded grant**

\$5, 800

## Project Complex

### Creating conditions for sustainable community development in Elban Urban Settlement

Requested amount \$41, 056    Grantee contribution \$67, 034    Total cost \$108,090

#### Thematic projects included in the Project Complex:

1. Upgrading process pipelines at the central boiler plant to supply hot water to the community during summer.
2. Comprehensive modernization of the library building in Elban Settlement to expand the range of community services.
3. Increasing environmental literacy in Elban Settlement as a means of controlling the spread of unauthorized dumps.



#### Municipality Profile

Elban Municipality with a population of 13,400 (average age – 45 years old) is located in Amursky Raion in Khabarovsk Krai. After a considerable curtailment of production at the local township-forming enterprise, such problems as unemployment, high disease incidence and low civic activeness have come to the forefront in this community.

#### Community problems addressed by the Project Complex:

- Low quality of communal and social services provided to community members of all ages and social strata.
- Lack of year-round hot water supply that leads to high power consumption due to water heating in summer; pipe corrosion; and high rate of respiratory illnesses among community members.
- High energy consumption rate of the heat supply system (from 967 to 1,470 rub./1 Gcal.) and high housing and communal payments that comprise 12% of the aggregate income of an average family. This is because the community's boiler plants use local low-quality coal and electricity and their equipment is 90% worn out.
- Inadequate development of the social infrastructure and low attendance of the library, which is one of the few cultural centers of the settlement.
- Low legal literacy of community members regarding the civic and environmental legislations.
- Large number of unauthorized dumps (nearly 150) in the settlement and high municipal expenses for removing the accumulated waste.
- Incompliance with standard temperature levels in most of the local kindergartens

**Synergetic effect of the Project Complex:**

The Project Complex promoted multi-sector interaction (from children and youth to senior citizens) in socially significant activities. The community was provided with good-quality hot water during the whole year; and the rate of illnesses lowered thanks to the maintenance of standard indoor temperature. Thus, the improved physical health of individual community members improved the spiritual and moral wellbeing of the whole community. Reduced expenses further an improvement of the economic situation of local residents. All this consolidates the community and enhances civic self-awareness.

Communal and Housing Services Management LLC was founded in Elban to coordinate the work of the local communal and housing services under the guidance of a general director. The Board of Directors of this organization decided how to use funds saved as a result of modernizing hot water pipelines of the central boiler plant. Such decisions are made in collaboration with the local administration and a representative body.

**Contact information:**

7Garazhnaya St., Elban Settlement, Amursky Raion, Khabarovsk Krai 682610  
Tel. (42142)42-9-56, fax (42142)42-0-33, e-mail [adminelb@amursk.ru](mailto:adminelb@amursk.ru)

**Contact person of the Project Complex:**

Natalya Draga, first category specialist on the communal and housing services industry at Elban Rural Settlement Administration

**Organizations, members of the Project Complex:**

| Title  | Category  | Profile   |
|--|-----------|---|
| Boiler Plant LLC   | business  | Maintenance of boiler plants, repair and technical servicing of central heating boilers, and assembly, repair and technical servicing of steam boilers. |
| Elban Library Network, a municipal cultural institutions | municipal | Culture and education activities.   |
| Elban Settlement Administration                          | municipal | Municipal governance, coordination of the activities of social institutions, and protection of citizen interests.                                       |

**Duration (months)**                      10    **Start date**                      01/10/2007    **End date**                      31/07/2008

## **Project**

### **Upgrading process pipelines at the central boiler plant to supply hot water to the community during summer**

#### **Organization:**

Boiler Plant LLC

#### **Type of organization:**

business

**Start date** 01.10.2007

**End date** 31.07.2008

#### **Project summary:**

Installing a new main-line pump of a lower capacity and a steam-water unit heater and laying 150 meters of a pipeline. As a result of these activities, the average annual rate of payments for hot water will increase by only 2.2%, while the cost of other utilities in winter will decrease.

#### **Location of dissemination:**

Elban Rural Settlement, Amursky Raion, Khabarovsk Krai

#### **Contact information:**

26a Vtoroi Mikoraion, Elban Settlement, Amursky Raion, Khabarovsk Krai 682610,  
Tel. (42142)41-3-44, fax (42142)41-6-30, e-mail [uprjkkx@pochta.ru](mailto:uprjkkx@pochta.ru)

#### **Project coordinator:**

Irina Vozhdayeva, chief economist at ZhKKH Department LLC

#### **Project objectives:**

A year-round supply of hot water in the community makes it possible to eliminate pipeline corrosion, increase the quality of hot water, reduce the rate of illnesses, decrease power and gas consumption and expenses of every family, and also improve the financial situation of the boiler plant.

#### **Final results:**

- After the establishment of year-round hot water supply, community members not longer have to incur costs connected with the use of other ways of heating water;
- Decreased monthly consumption of electricity by 10,000 kW/h during summer;
- The service life of the pipelines was extended due to year-round water filling that stops active corrosion in summer.

**Total project amount**

\$69, 235

**Grantee contribution**

\$49, 615

**Awarded grant**

\$19, 620

## **Project**

### **Comprehensive modernization of the library building in Elban Settlement to expand the range of community services**

#### **Organization:**

Elban Library Network

#### **Type of organization:**

government

**Start date** 01.10.2007

**End date** 30.06.2008

#### **Project summary:**

Modernization of the heating system in the library, bricking in the large windows, repairing the walls and installing multiple glass units. Founding a Legal Information Center at the modernized library.

#### **Location of dissemination:**

Elban Rural Settlement, Amursky Raion, Khabarovsk Krai

#### **Contact information:**

12Vtoroi Mikroraion, Elban Settlement, Amursky Raion, Khabarovsk Krai 682610

Tel.(42142)41-0-95, e-mail [adminelb@mail.amursk.ru](mailto:adminelb@mail.amursk.ru)

#### **Project coordinator:**

Irina Sheremyeva, director of Elban Library Network

#### **Project objectives:**

A stable indoor temperature in the library allowed to expand the range of provided services (legal information consultations); carry out activities for children from low-income families; organize exhibitions of books, drawings and works of art; and motivate adolescents to join the audience of readers.

#### **Final results:**

- The project made it possible to save nearly 3,000 kW of power a month during the winter season, thus economizing 10,446 rubles of municipal budget funds;
- Library attendance by all sectors of the community has doubled (by 150-200 more visits) due the availability of a greater variety of educational and legal information;
- The temperature in the library does not drop below 16° C;
- After the end of the project, saved funds were used for installing heat meters in the library and plans have been made to winterize the roof, which is the main source of heat loss;
- The standing of the librarians in the community has enhanced, since they now provide consultations on a broad range of legal questions.

**Total project amount**

**Grantee contribution**

**Awarded grant**

\$30, 822

\$13, 086

\$17, 736

## **Project**

### **Increasing environmental literacy in Elban Settlement as a means of controlling the spread of unauthorized dumps**

#### **Organization:**

Elban Rural Settlement Administration

#### **Type of organization:**

government

**Start date** 01.02.2008

**End date** 30.06.2008

#### **Project summary:**

Conducting public education activities, meetings and contests to increase environmental literacy in the community by local cultural and educational institutions. Acquiring digital cameras for conservationists with the aim of recording the sites of unauthorized dumps and those community members who violate environmental safety rules. Young conservationists will also take pictures of the most cared for areas and place the photographs on information stands in the settlement.

#### **Location of dissemination:**

Elban Municipality, Amursky Raion, Khabarovsk Krai

#### **Contact information:**

7Garazhnaya St., Elban Settlement, Amursky Raion, Khabarovsk Krai 682610,

Tel. (42142)42-0-33, fax (42142)41-0-33, e-mail [adminelb@amursk.ru](mailto:adminelb@amursk.ru)

#### **Project coordinator:**

Igor Gudin, head of Elban Rural Settlement Administration

#### **Project objectives:**

A joint inspection of the settlement by the local Environmental Commission and the children's environmental organization Green Patrol, identified 149 (26 large) unauthorized dumps of household waste (as of April 22, 2007). To clean one such dump, the local administration has to spend an average of 3,000 rubles, which means that removing all the dumps would cost 447, 000 rubles. New dumps appear in the place of the eliminated ones. The initiative group sees only one way out of this situation: increasing environmental literacy in the community; creating conditions for the appearance of environmentally responsible attitudes among all residents of the settlement; and broadly disseminating information about instances of environmental violations.

#### **Final results:**

- Advertising and public education activities involved over 400 students of Elban schools.
- Over 200 unauthorized dumps were eliminated and practically the whole area of the settlement was cleaned by volunteers;
- As a result of increasing public awareness about the project, community members are actively helping to keep the settlement clean;
- Moneys saved as a result of dump cleaning will be used for landscaping and site improvement in the settlements.

#### **Total project amount**

\$8, 033

#### **Grantee contribution**

\$4, 333

#### **Awarded grant**

\$3, 700