



## Education on climate and energy in Russia

*By Olga Senova, SPARE Russia*

**INFORSE-SPARE Workshop:  
 Sustainable Energy Education  
 9th December 2009, 14.30-16.00**

**Klimaforum'09 - People's Climate Forum'09**  
 NGO Side Event to UNFCCC COP15  
 Grey Room, **DGI-Byen, Copenhagen**  
 NGO Side Event to UNFCCC COP15

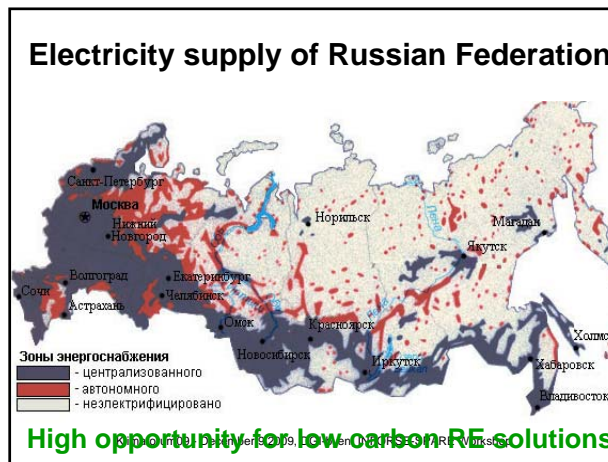
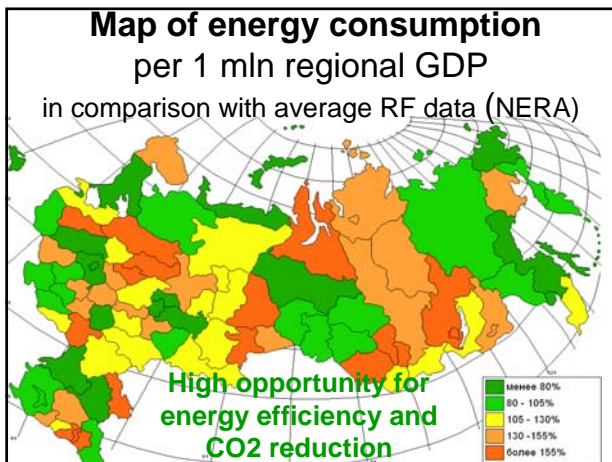
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## Education on climate and energy in Russia

**Olga Senova**  
**Russian Socio-Ecological Union/Friends of the Baltic**

[www.spareworld.org/russia](http://www.spareworld.org/russia)  
[www.rusecunion.ru](http://www.rusecunion.ru)  
[www.baltfriends.ru](http://www.baltfriends.ru)

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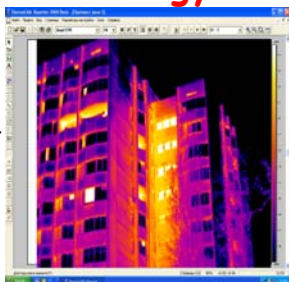
- International educational program SPARE in Russia – education on climate and energy.
  - Program of Socio-Ecological Union on Education on Climate and Energy for Sustainable Development, including local and regional projects for raising public awareness on energy saving in housing sector, schools and offices.
  - More than 600 schools (1 %) and 20000 pupils are involved,
- (2002-2006 – UNDP project of Ministry of Education for application of low-cost energy saving measures in educational sector. 4 pilot projects and text book for schools – but no dissemination and further state support)
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## Do we need more energy?

Insulation of one window – economy of 0,5-0,7 MWh\*<sup>h</sup>/year

Reduction 500 kg CO<sub>2</sub>/year  
 59000 schools in Russia, more than 70 % in bad thermo-conditions.

2 mln windows – more that 1000 MWh\*hour



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## SPARE - education on climate and energy and support of schoolchildren initiatives on simple energy solutions

- SPARE text book "Energy and environment", staving" for 8 grade, working notebook, additional educational and methodical materials.
- Integration of climate/energy theme to school education (additional lessons, facultatives, clubs).
- Methodical help to teachers - seminars, round tables.
- Teacher re-training courses.
- All-Russian competition "Save climate with simple energy solutions"
- Web-site и mailing list.
- Additional information and practical projects on climate, energy saving and RE in all Russian regions.
- SPARE works in all 7 Federal Okrgs.

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## New educational materials, published in 2008-2009



- Guide for teachers "How to work with SPARE at schools."
- Set of posters on energy saving in housing sector.
- Guide on insulation of windows.
- Set of climate/energy lessons for primary school and kindergarten.

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## Examples of educational materials, designed by state educational organizations, inspired with SPARE

Program of safe and economical use of electricity (Pedagogical Academy, St.Petersburg with support of regional energy company)

Elective course, approved by regional Committee for education "Energy for future" Vladivostok

Re-training course for teachers, Murmansk/

Including climate/energy issues to teacher re-training programs



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## Lessons for teachers within the re-training course.



## Municipal program for schoolchildren on the basis of NGO Ecocentrum

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**SPARE Competition**

**Support of school activity oriented to practical solutions**

**Opportunity for cooperation with state bodies and business.**  
**Support of Regional Nature Protection Departments, Educational Departments, Energy companies.**

**(Common invitation, dissemination among schools, awarding ceremony, prizes...).**

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**SPARE partners in Russian State Educational System**

- **Regional Committees for education – Karelia, St.Petersburg, Murmansk, Bryansk, Vladivostok.**
- **Regional Institutions for teacher retraining – C. etersburg, Irkutsk, Vladivostok, Bryansk, Murmansk...**
- **Schools, colleges, centres for additional education, libraries - everywhere.**

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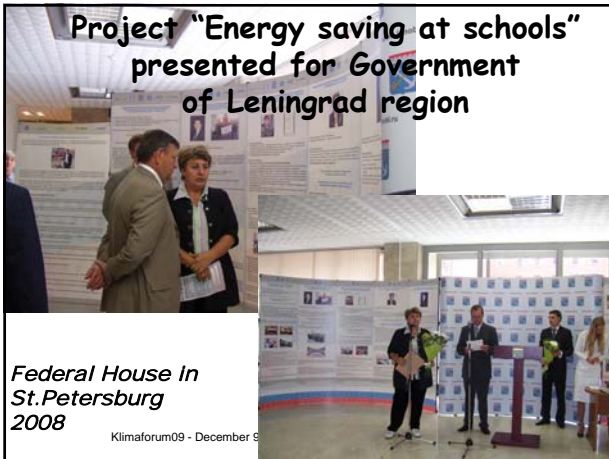
**Practical work with schools**

- **Helping schools with simple energy audit, finding energy loses, effective and economy lighting and heating.**
- **2007-2008 - training and pilot window insulation in schools of North-West Russia - Russian Public Chamber.**
- **Dissemination of results among other schools in the pilot regions.**
- **Wide dissemination among other schools/teachers, NGOs, mass-media, authorities....**

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**Work with society**

- Raising public awareness, supporting local initiatives for energy saving in housing sector, consultations, dissemination of best practices, development of regional legislation.
- **Public Ecozentrum in St. Petersburg** – demonstration and educational centre for citizens, NGOs, teachers, students... cooperation with business

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**Advertising posters in metro**

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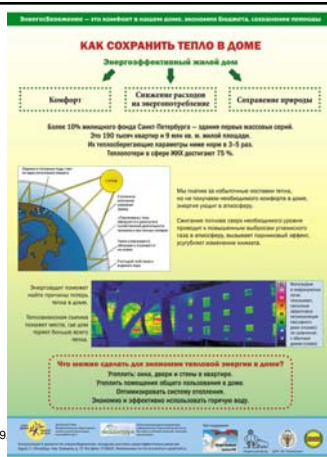




**Set of informational posters on energysaving in multistory house** –

displayed in housing associations, municipalities, informational points: St.Petersburg, Leningrad region, Murmansk oblast, Karelia

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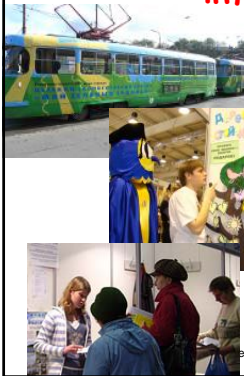


**NGO proposals to authorities, to regional legislations**

- Development and support of public information centers on energy saving;
- Favorable conditions for energy saving in state or municipal organizations: possibility to use saved money for next energy saving measures or organization development;
- Preferential credits / investments for energy saving and energy efficiency measures..

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**Other forms of education and information:**



**Constant exhibition + moving exhibition** – St.Petersburg, Green Tram - Yekaterinburg.  
**Exhibition "From fair to LED"** leaflets for home and office . Regional teleconference on climate - Irkutsk  
**Energy Calculator** - [www.ctcspb.ru/pr\\_atlieku\\_leidiniai.php](http://www.ctcspb.ru/pr_atlieku_leidiniai.php)

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**Lobby work for development climate energy education on national level, as far as support of local decentralized sustainable energy solutions**

- **Visible Position of Russian Socio-Ecological Union on climate and energy.**
- **Statements/Appeals to national Authorities on behalf of all-Russian conferences...**
- **Appeals to authorities from SPARE (SPARE Day – postcard)**

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**Today situation and prospects**

- Development of various regional educational programs for schools, inspired with SPARE.
- Federal Law on energy saving – but on national level - ignoring by state authorities NGO role and contribution to education for society...
- Development of regional cooperation of NGOs with local business, science, green-oriented energy companies, NGO participation in regional programs on energy efficiency...

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**Thank you!**

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