



SYSTEM „BS” = PASSIVE ALTERNATIVE ENERGY

A Step into energy independence of Poland, Lithuania,
Belarus, Ukraine, Moldova.

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2nd Forum Science & Technology Days Poland-East

22-24.04.2009 Białystok-Białowieża, Poland

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Raw material - Reagypsum

Method of obtaining the raw material

Desulphurization of combustion gases from Coal-Fired Power Plant.



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Raw material recourses

Waste deposits of Phosphogypsum:

- Poland (Wiślinka, Police, Wizów) - 40 mln ton;
- Lithuania (Kiejdany) - 20 mln ton;
- Belarus (Homel) - 16 mln ton;
- Ukraine (Nowy Razdoł, Rowno,) - 200 mln ton;
- Russia and other countrys of CIS - ponad 500 mln ton.



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Properties of „BS” system

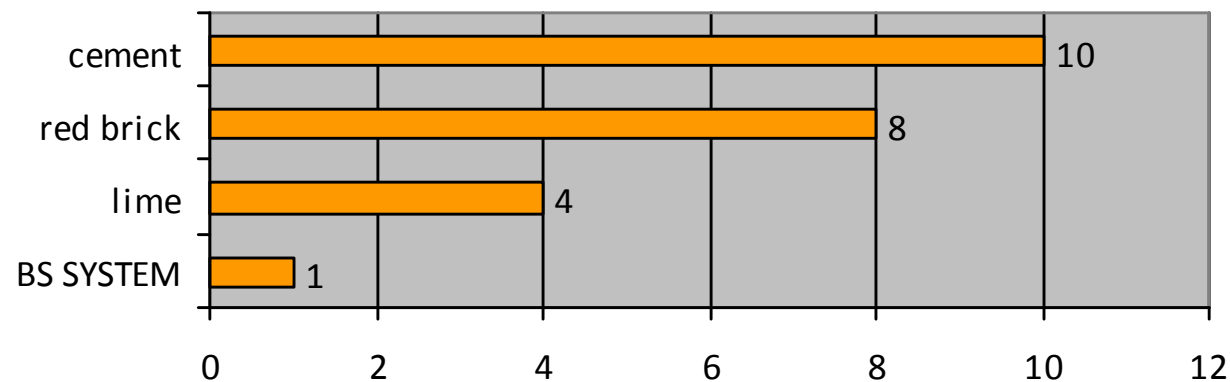
- “BS” system element contains: 1/3 of gypsum, 2/3 of Styrofoam, dimension 30x30x60 cm, weight 130-140 kg/m²;
- Thermal performance of BS system wall $U= 0,20 \text{ W/m}^2\text{K}$;
- Compressive strength of a BS system element 2-:-3 Mpa;
- Ability to construct up to 5 storey buildings.





Production of „BS” system elements is energy – efficient

■ Energy consumption of generating of basic construction materials:



- Low investment outlay for production of elements;
- The Construction of production plant is 2-3 times quicker, efficiency from 1 m2 bigger;
- Employment - uneducated labor force;
- Dosage of ingredients – automatically;
- Good energy efficiency – exothermical reaction;



Execution of buildings in „BS” system is easy and cheap

- Perfect solution for self-construction of single family houses and council housing;
- Transport of elements to the construction site is 3-5 times lower
- Production of elements – on the constructing site;
- No need of crane;
- Fast natural drying of elements in warehouse or finished wall;
- Construction by gluing with gypsum glue.



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Execution of buildings in „BS” system is easy and cheap

- Steel-reinforced concrete frame construction inside the wall.
- Short construction process;
- Short installation and fit-out process;
- Perfect for shaping and fit-outs of luxury building;
- Perfect solution for arctic, moderate and desert climatic zone ;
- No need of gas heating system – night heating – lightening of atomic power plants.



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Construction of two million houses in Poland
in „BS” technology will aloud to give up one
big coal power plant.



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Accomplished buildings and projects



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Thank you for Your attention



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