

Energy saving technologies in industrial power engineering and municipal economy

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Priority trends of scientific research in the field of energy saving

1. Equipment and technologies reducing energy expenses during transportation, distribution and consumption of heat and electric energy.
2. Systems of complex joint utilization of traditional and renewable energy sources.
3. Technologies and equipment for highly efficient lighting systems.
4. Technologies and equipment for diagnosis and monitoring of systems of heat and electric energy supply.

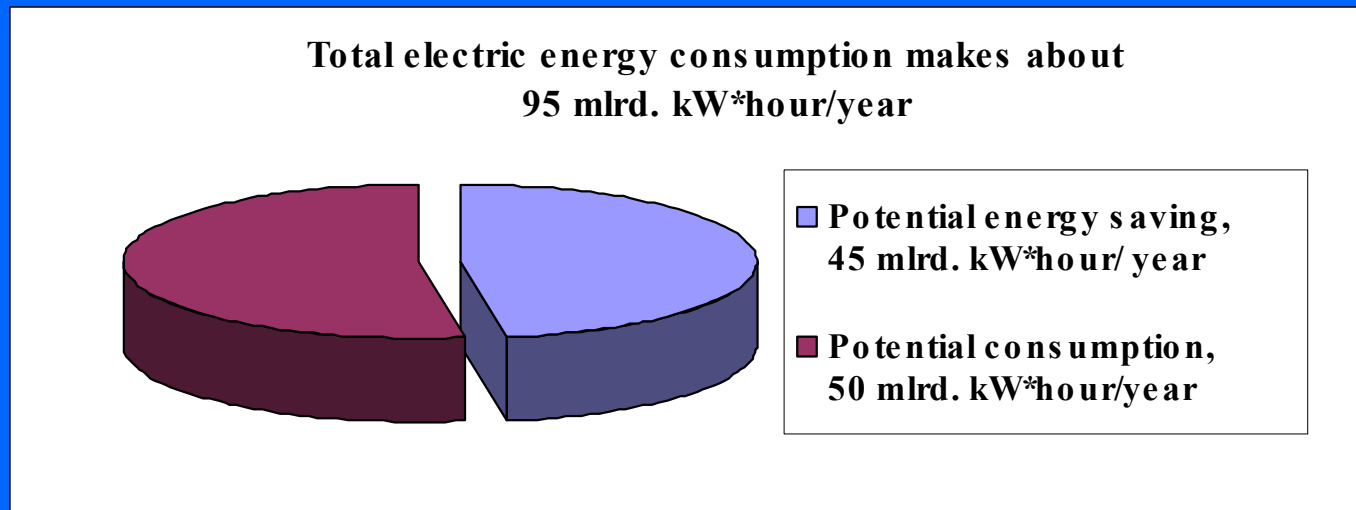
Gas piston mini heat power station, general view



Module boiler-house



Systems of street and industrial lighting

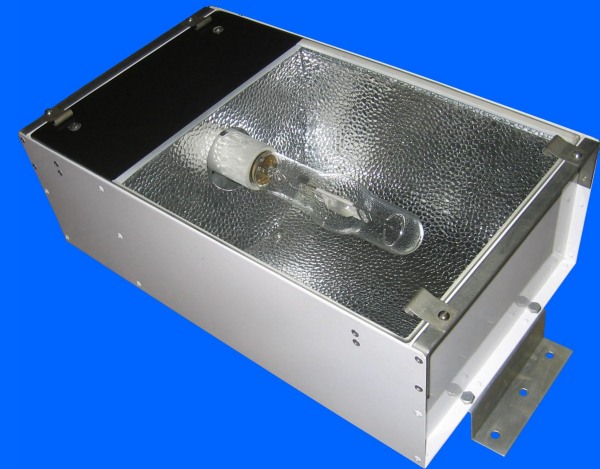


About 10% of total electric energy consumption in the country refer to systems of lighting

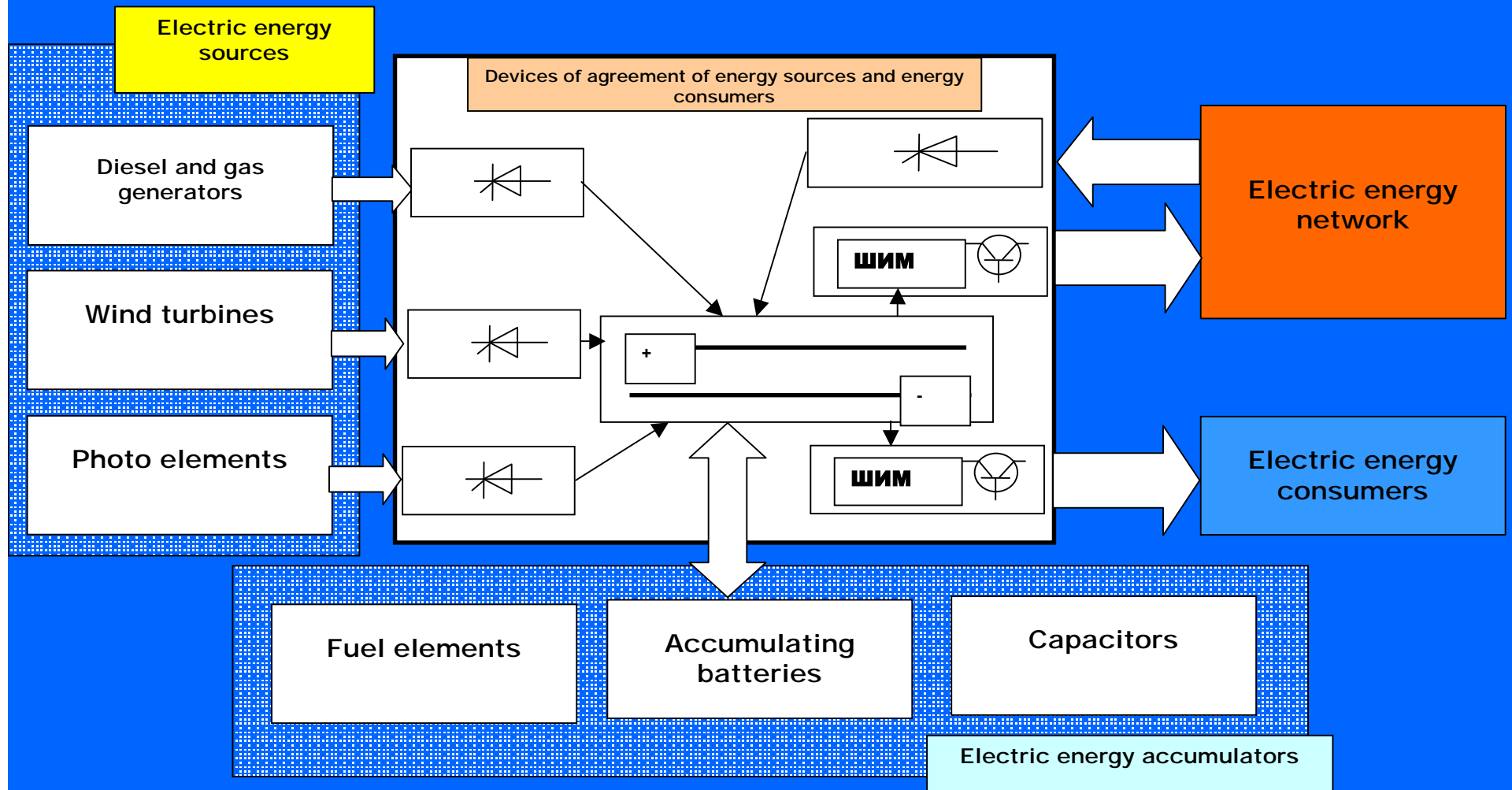
Priority sector of energy saving in Russia

Complex energy efficient technologies of industrial and street lighting

- Lighting fixtures
- Light sources
- Control devices
- Technologies of automated planning



Technology of agreement of electric energy sources (accumulators) and consumers



Automated desk for energy auditor

- Calculation of electric energy losses.
- Calculation of heat losses in buildings.
- Calculation of heat losses in heat pipelines.
- Calculation of fuel modes for boiler-houses.
- Energy efficiency estimation for the projects of reconstruction of boiler houses.
- Calculation of water consumption for budget financed organizations.
- Development of timeline of preplanned repair of electric equipment.



THANK YOU