



Baltic Industrial Co

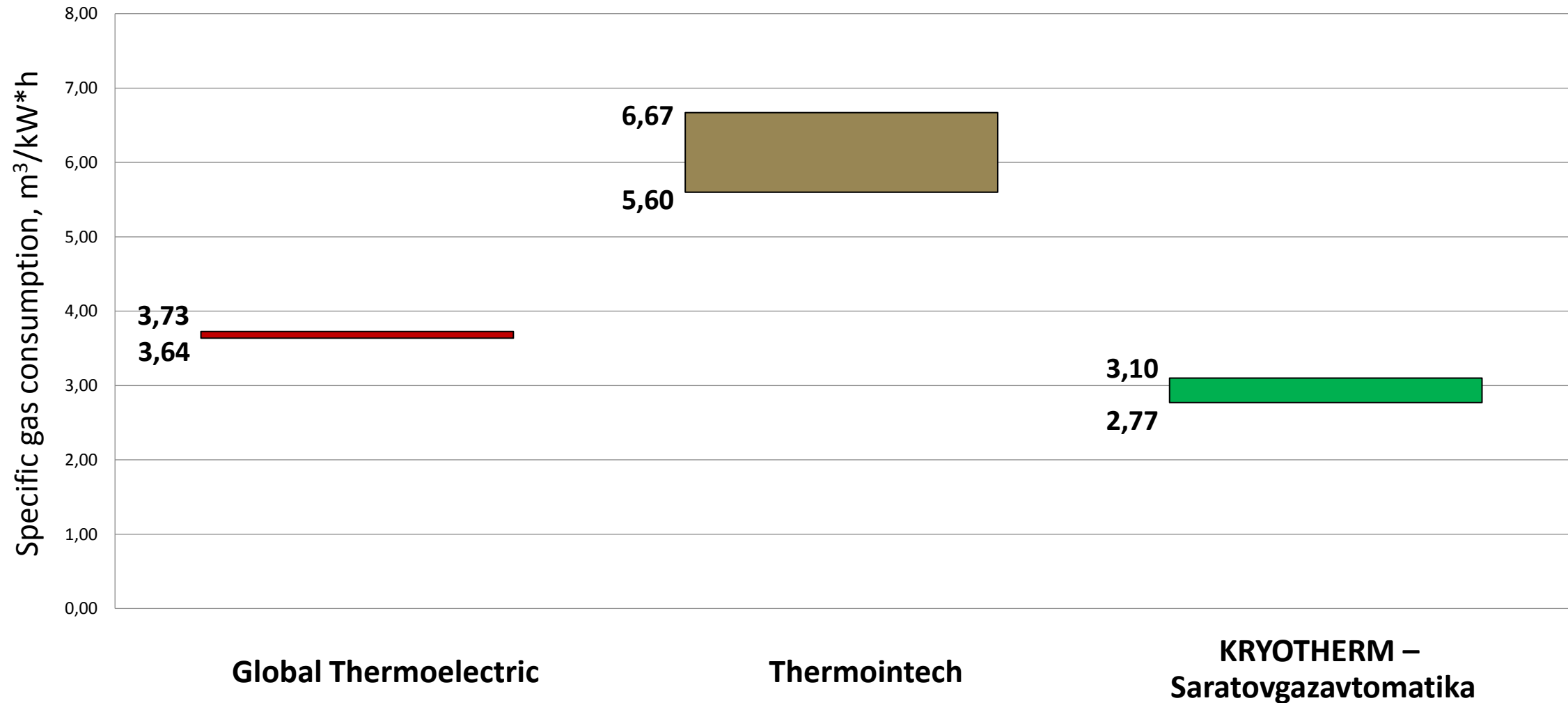
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Comparative study of the efficiency of commercially available generators of electric energy based on the thermo-electric effect with the heat source of thermal energy from the combustion of the gas.

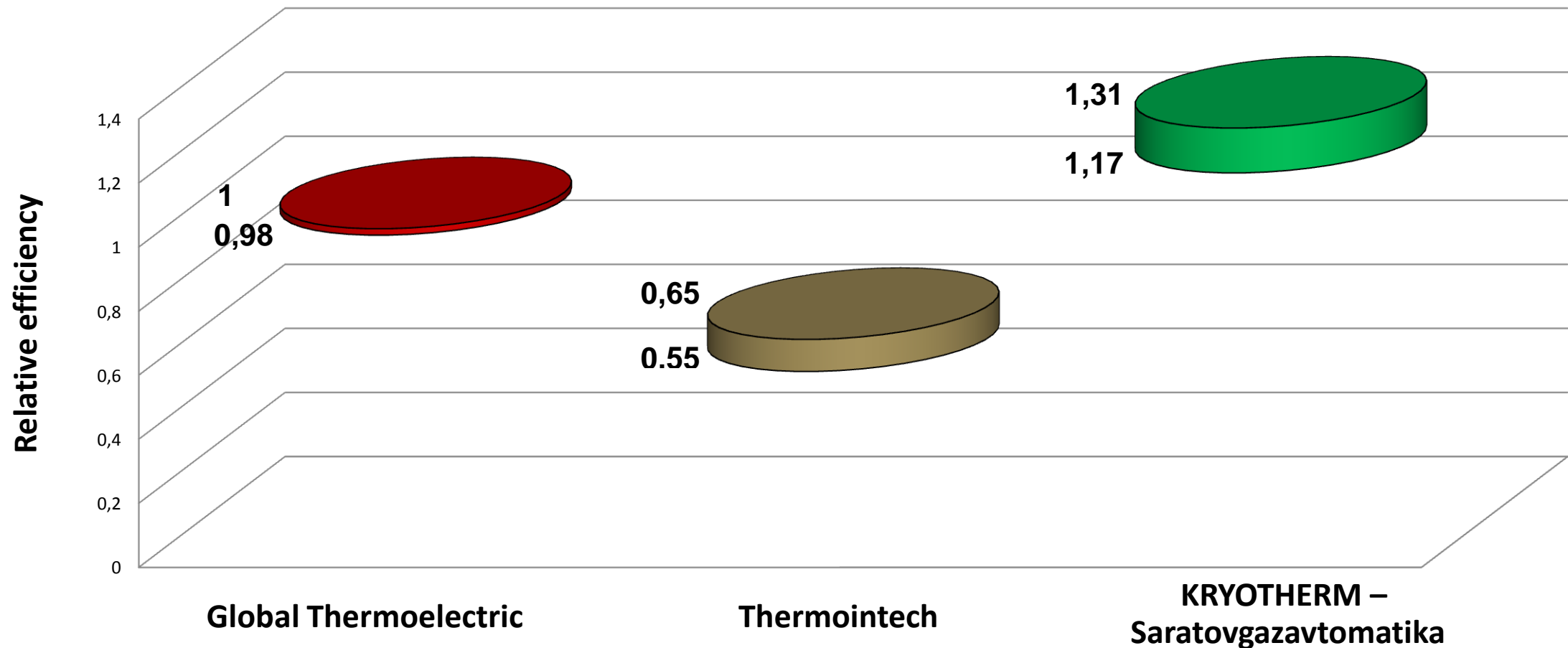
Comparison of the efficiency of thermoelectric generators

Production Company	Global Thermo-electric		Thermointech			KRYOTHERM				Saratovgaz-avtomatika
	8550	5220	GTE-200	ATIP-3000	ATIP-5000	GTEG-200	GTEG-300	GTEG-300-M	GTEG-500	APS-5000
Output power, W	550	220	180	3000	5000	210	300	350	550	5293
Natural gas consumption, m ³ /h	2	0,82	1,2	17,2	28	0,65	0,92	0,97	1,53	15,5
Specific gas consumption, m ³ /kW*h	3,64	3,73	6,67	5,73	5,60	3,10	3,07	2,77	2,78	2,93
Related efficiency (8550=1,00)	1,00	0,98	0,55	0,63	0,65	1,17	1,19	1,31	1,31	1,24

Comparison of the fuel consumption



Comparison of the relative efficiency of thermoelectric generators (8550=1)



Generators



5220



8550



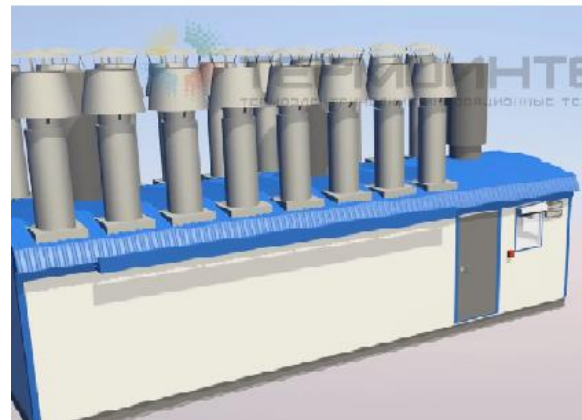
GTEG-200



GTEG-500



GTE-200



ATIP-5000



APS-5000

Information Sources:

- **Generator 5220**

http://www.genthermglobalpower.com/sites/default/files/product_files/67211_rev1_5220%20spec%20sheet.pdf

- **Generator 8550**

http://www.genthermglobalpower.com/sites/default/files/product_files/67213_rev0_8550%20spec%20sheet_0.pdf

- **Generator GTEG-200** <http://thermointech.ru/generator-termoelektricheskij-gte-200/>;
<https://www.youtube.com/watch?v=ianxwTgd4t8>

- **Autonomous power sources ATIP-3000 and ATIP-5000** <http://thermointech.ru/modifikatsii-harakteristiki-atip/>

- **Generators GTEG-200 and GTEG-500** <http://kryothermtec.com/ru/thermoelectric-generator-gteg.html>

- **Autonomous power sources APS-5000** <http://www.gazprom-auto.ru/press/news/2089/>

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