



Expansion of production volumes will enable BelAZ to double its production by 2015 compared to 2010, when 1,034 items were manufactured

Law of energy conservation

This year is dedicated to grand industry modernisation of the domestic economy, including the implementation of over a hundred energy saving projects

By Vladimir Khromov

One such foresees the raising of production of quarry machinery at BelAZ, while Minsk Motor Plant is to produce high endurance iron castings and a new mill is being built at the Belarusian Steel Works in Zhlobin.

Energy consumption is to be reduced by almost a third, with the country's timber industry sup-

plying not only wood fuel but also being a role model for energy saving. For example, Vileika forestry is to gain LED lighting and Ostrovets forestry is to produce heating from its own raw wood materials. Rogachev will receive new boilers and drying facilities, while the forestry in Klichev will gain automated equipment for producing machine-rounded timber.

"Enterprises across Belarus

use about 2,000 boilers at present," explains the Head of the Presidium at the National Academy of Sciences of Belarus, Piotr Vityaz. "However, every year, only about 10-12 electric and one or two gas furnaces are replaced, and only at larger enterprises." He believes that a review of the relevant programme of technical re-equipment and modernisation is required, so that more fuel-efficient boilers

can be gradually introduced.

The energy audit of enterprises and organisations is on going, led by the Institute of Energy at the National Academy of Sciences of Belarus. Its findings guide energy saving measures, drawn up with great professionalism, in hand with those working at enterprises. Naturally, long term savings and energy efficiency are the goal, explains Professor Vic-

tor Brodyansky, of the Moscow Energy Institute. His twelve rules of energy consumption are based on understanding of energy production and practical experience, as well as theoretical knowledge, including the use of insulation of thermodynamic systems and efficient distribution of heat. Guidelines have been placed online to help individual sites in their energy saving.

Watches rival top branded

Minsk watchmakers first in post Soviet territory to start production of watches with increased wear resistance

By Vasily Kharitonov

In 2013, Minsk Watch Plant (brand name 'Luch') is to begin production of corrosion resistant casings, explains Acting Chief Engineer Vasily Filin. Black protective and decorative coatings in diamond-like carbon will give increased wear and corrosion resistance, hardness and smoothness. The technological process of applying the nano-material coating to the bodies of watches in brass and stainless steel has been developed by the Physico-Technical

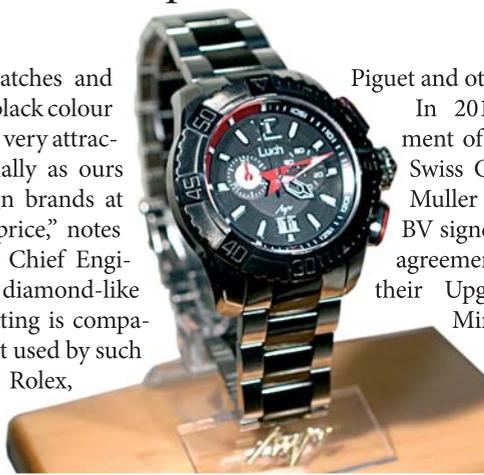
Institute of the National Academy of Sciences of Belarus, as part of the *New Materials and Technologies-2015* programme. The black protective and decorative coating has been sprayed by the scientists on a batch of watches. Later, they will help the plant to upgrade equipment for spraying coating of nano materials.

According to Mr. Filin, the innovation is in use nowhere else in the CIS. He explains, "Leading watch manufacturers worldwide have been using similar coatings but we are the first within the CIS. Designer ver-

sions of watches and the classic black colour make them very attractive, especially as ours rival foreign brands at a cheaper price," notes the Acting Chief Engineer. The diamond-like carbon coating is comparable to that used by such brands as Rolex, Messina, Citizen, Panerai, Audemars

Piguet and others.

In 2010 the Government of Belarus and the Swiss Company Franck Muller International BV signed an investment agreement to implement their Upgrading of JSC Minsk Watch Plant



New 'Luch' looks good with old brand

Production project. The Swiss currently own 80 percent of shares in the plant.

Reporting in a new way

National Statistics Committee offers small businesses electronic reporting

"Small and micro organisations represent our most numerous circle of respondents most of which report once a year," explains the Deputy Chairman of the National Statistics Committee, Vadim Bogush. "The number of small businesses now exceeds 97,000, according to data from early 2013."

The advantages of electronic statistical reporting are obvious, stresses the National Statistics Committee: it saves time and reduces not only the number of errors but the need for paper copies (since reports can be signed with an electronic digital signature). In addition, data can be corrected and updated electronically, while confidentiality is ensured.

"Small businesses are the first to respond on their financial and economic activities for 2012 in electronic form," notes the Deputy Chairman of the National Statistics Committee. "An electronic signature is used, as for signing tax declarations."

Until January 28th, micro organisations (commercial organisations with an average number of up to 15 employees) may provide an annual report on their financial and economic activities in electronic form.

Joint project shows its real worth

By Yelena Stasova

Launch of Belarusian two-axial locomotives mastered in Lida, with first already passing trials

The Belarusian TME3 locomotive has been created jointly with Czech company CZ LOKO, to allow manoeuvrability on public tracks and the house tracks of industrial enterprises. It is to be used primarily at low-density



Lida locomotive

stations.

In comparison with diesel locomotives of similar power

and weight, the TME3 is much more efficient, using 30 percent less fuel and 60-75 percent less diesel. Its accessories, parts and components meet the highest standards in the fields of ecology and safety.

Eight such locomotives are to be produced in Lida this year, for sale to industrial enterprises in Belarus. By the end of 2014, about 20 locomotives should be in operation.

Lida locomotive depot is one of the largest enterprises of Belarusian Railways, transporting goods and passengers and making minor and major repairs to diesel trains and locomotives with hydraulic transmission.

Since 2010, it has been building TME locomotives; the TME1 and TME2 are already being used in the locomotive depots of Minsk, Vitebsk and Baranovichi.