

LABORATORIES SARBEC AND GLOBAL COMPACT IN 2008

2008 GOOD PRACTICE

1) **Company name:** SARBEC LABORATORIES

2) **Good practice title:** Preferred use of renewal energies and reduction of energy consumption (electricity and gas)

3) **Global Compact principle involved:**
9th « To encourage the development and diffusion of environmentally friendly technologies »

4) **Which actions respecting this principle has your company undertaken?**

4.1) **Preferred use of renewable energies and reduction of our electricity consumption**

Sarbec Laboratories chose to have a responsible attitude which appeals to the staff, partners and clients of the company.

To put into practice our promise in favour of renewal energies, we have signed with EDF a contract called « KWh Balance » which favours their use.

For 1 kWh bought, 1 kWh is generated from renewable energies.

EDF regularly informs us about the green certificates RECS (Renewable Energy Certificate System) issued by Observ'ER (Observatory of Renewable Energies) which is the organization responsible in France for issuing green certificates and recording them into national data and corresponding to the volume of Balance consumption bought.

These green certificates RECS guarantee us that a quantity of electricity generated through renewable energy sources and corresponding to our « Balance » consumption has been injected, through our account, into the network.

By choosing this type of contract, in 2008 Sarbec Laboratories bought 21 % of EDF electricity produced from renewable energy sources guaranteed by Observ'ER.

This contract has resulted in the setting up of an audit which identified several possible saving trails regarding the following fields:

- electricity distribution
- compressed air production
- compressor lagging
- modification of workshops lighting system

4.1.1 – Action over electricity distribution

We have replaced our 3 transformers by 3 new equipments adapted to our needs and therefore consuming less energy on empty.

4.1.2 – Action over compressed air production

We have replaced a 55KW fixed speed, air compressor which was permanently on full speed by a variable speed, 55KW air compressor which, from now on, will only deliver what we need at any given time.

4.1.3 – Action over the compressor

Before the alteration, the cooling air from the compressor generated, on the premises, a temperature close to 60°C, heat which was lost either outside or inside the premises themselves. In order to make use of the free heat lost until then, we have decided to lag the compressor to channel the emitted heat and to use it for heating two large workshops.

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4.1.4- Action over the workshops lighting

The workshops total lighting consumption before modification was 721 100 kWh, equivalent to almost 20% of the total factory consumption, on a working basis of 6100h. Equipped with fluorescents tubes of 58W Type TB, 400W high voltage sodium lamps and halogens, lighting systems are replaced as we go along by low voltage lighting of type T5.

4.2) Reduction of our gas consumptions

At the start of 2008, the price of petrol continued to rise as it had throughout 2007 to reach historical records, putting the cost of importing natural gas at a very high price level.

Faced with this constant rise, the Sarbec Company decided to modify its installations during the second quarter in order to reduce its gas consumption and therefore the amount of its bills.

We completed the following works:

- all heating pipes were modified in order to separate the network of pipes used to supply heat to the offices from those supplying the factory, the offices consuming more heat than the factory where running machines generate their own working heat.

- changing the heating system of the packaging workshops. Beforehand, these workshops were equipped with sixty or so heating units working permanently at full speed, and used both a lot of gas (through hot water) and electricity (1 engine per heating unit + pumps to supply these heating units). We have replaced them by 4 reversible central heating systems which generate cool air in summer and heat in winter.

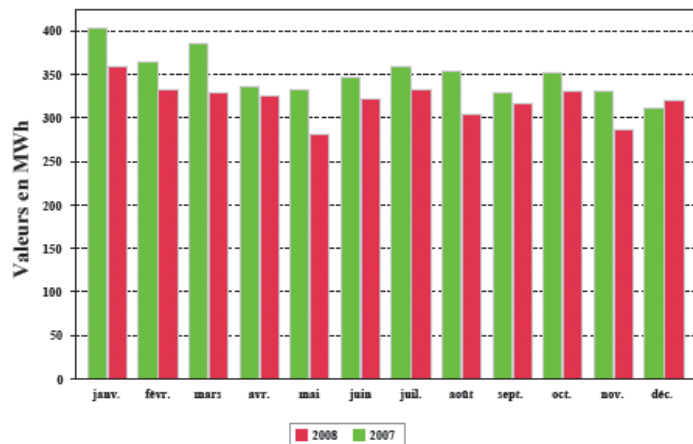
- modification of hot water distribution networks throughout the whole company. We have removed hundred of metres of hot water pipes which required a lot of energy to heat water and distribute it. (pumps). We have installed single independent cumulus instead (hot water tanks).

5) What was the result/benefit of these actions?

5.1- Over electricity consumption

A substantial saving of 8.75% in 2008 compared with 2007 was noted for electricity consumption.

Consommations mensuelles : années glissantes



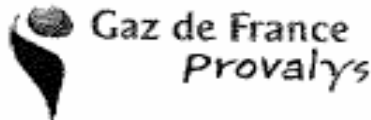
Consommation année glissante 2008 (kWh)	3 835 187
Evolution année 2007 (%)	-8,75
Consommation mois décembre 2008 (kWh)	320 421
Evolution décembre 2007 (%)	3,19

5.2 – Over gas consumption

Because of the work undertaken during the 2nd quarter of 2008, we have achieved a saving of 0.4% in total gas consumption in the sliding year 2008 compared with 2007.

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Total consumption (kWh) Year 2007: 2 657 320
 Total consumption (kWh) Year 2008: 2 648 453



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Eléments issus de vos factures de Janvier 2007 à Décembre 2007

	Consommation Totale (kWh)	Consommation Hiver (kWh)	Consommation EM (kWh)	Dont quantités en deuxième tranche	Débit maximum
JAN	397 579	397 579	0	397 579	18 809
FÉV	329 241	329 241	0	329 241	14 707
MAR	301 891	301 891	0	301 891	15 199
AVR	169 965	0	169 965	169 965	9 377
MAI	143 261	0	143 261	143 261	9 093
JUN	104 876	0	104 876	104 876	5 690
JUL	89 411	0	89 411	0	5 131
AOÛ	97 392	0	97 392	0	5 521
SEP	119 539	0	119 539	0	10 559
OCT	230 100	0	230 100	0	11 000
NOV	354 070	354 070	0	0	14 272
DÉC	323 066	323 066	0	233 907	17 949
CUMUL	2 657 320	1 695 789	991 534	1 697 300	17 949

1 218 567 1 413 843



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Eléments issus de vos factures de Janvier 2008 à Décembre 2008

	Consommation Totale (kWh)	Consommation Hiver (kWh)	Consommation EM (kWh)	Dont quantités en deuxième tranche	Débit maximum
JAN	397 560	397 560	0	397 560	17 919
FÉV	342 716	342 716	0	342 716	15 194
MAR	323 277	323 277	0	323 277	14 279
AVR	289 194	0	289 194	289 194	12 797
MAI	85 659	0	85 659	85 659	7 097
JUN	89 199	0	89 199	89 199	6 629
JUL	84 918	0	84 918	0	4 605
AOÛ	77 709	0	77 709	0	5 199
SEP	117 098	0	117 098	0	7 419
OCT	190 918	0	190 918	0	14 929
NOV	269 528	269 528	0	0	14 599
DÉC	410 548	410 548	0	149 892	22 419
CUMUL	2 648 453	1 743 607	894 846	1 648 453	22 419

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6) At which level was this practice undertaken?

This was undertaken a tour head office in Neville en Refrain (France) which has its own factory.

7) Company contact details

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