



# TAKING CONTROL SAVES HOUSEHOLD COSTS

When it comes to running a household from a budgetary perspective, it's all about having an overview of what's happening in the home and controlling the costs.

As we know, the costs of heating and cooling a home continue to escalate when one uses conventional power suppliers. The answer is to switch to alternative sources of energy, such as solar power and other types of fuel.

NeOn Energy started off by introducing hybrid solar panels to the market. These top quality hybrid panels not only provide electrical energy, but also absorb the energy from the sun for heating water, that can be stored.

Going a few steps further, NeOn Energy has started introducing 'whole house' solutions, adding underfloor heating and cooling systems. They have introduced



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gas boilers that can be run off bottle or piped gas and now also other new pellet boilers that use pellets for fuel.

### CONTROL UNIT

“Using alternative energy is becoming more and more necessary, but the key to managing this and other household consumption is control,” says Massimo Baiocco, Director of NeOn Energy. “We have introduced the Clima 6000 system that not only controls the equipment and even the plumbing and air-conditioning, but it gives you information so you can control your costs.” Says Luke Brehas Sales Manager of NeOn Energy.

It’s interesting to note that the system also monitors water consumption. This is a great help in detecting leaks and remedying costly problems. “If you have a leaking toilet or tap, you can go to the hot and cold water manifold and isolate that section, without having to go through the whole house to find it,” Massimo explains.

NeOn Energy’s thermodynamic engineering division designs systems to suit each unique household. There’s an installation warranty of 3 years and the guarantee on the plumbing piped system is for 10 years. If there’s a problem, you can phone and an authorised, approved and trained NeOn Energy installer will be dispatched to sort out the problem.

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### BOILERS

It’s a fact that heating water for the home is one of the biggest energy guzzlers that pushes up the costs of running the household. Introducing a gas or pellet boiler to the heating system is an excellent solution.

The NeOn Energy boilers are fully-controllable via the control systems that the company supplies. The pellet boilers are a relatively new solution and are fed via pine wood pellets that are very cost effective in comparison to other fuels.

The pellet has been designed to be carbon neutral as per international CO2 emissions. The Lambda sensors also monitor the CO2 emissions to make sure that they are kept to a minimum, in compliance with European standards.

### PLANT ROOM

The plant room in effect becomes the heart of the home from an operational perspective. It houses the domestic hot water tank, the boiler, the cooling system, the solar storage equipment and the pump station – as well as the controllers and sensors for the house.

### TRAINING FACILITY

“We are doing a lot of residential installations in suburbs such as Waterfall, Bryanston, Morningside and Sandton. To assist architects, developers and builders, we have a training facility at our premises in Midrand and we have stock of components that can be purchased there, too.”

“The partnerships that we have established with a number of Italian companies give us a wide range of options that we can offer home owners – as well as any industry that has requirements for alternative energy sources, such as hospitals, hotels and restaurants,” he concludes.

## COMPARISON OF CALORIFIC VALUE FOR THE PELLET BOILER SYSTEM

### COMPARISON OF CALORIFIC OF THE MAIN FUELS CURRENTLY USED

| FUEL         | INFERIOR CALORIFIC POWER | AVERAGE YIELD BOILER 93% | COST/Kg | COST/KW |
|--------------|--------------------------|--------------------------|---------|---------|
| WOOD         | 4,00 kWh/kg              | 3,72 kWh/kg              | R4,50   | R1,209  |
| PELLET       | 5,00 kWh/kg              | 4,65 kWh/kg              | R5,00   | R1,075  |
| *NATURAL GAS | 9,50 kWh/kg              | 8,83 kWh/kg              | R15,01  | R1,585  |
| *DIESEL OIL  | 10 kWh/kg                | 9,3 kWh/kg               | R13,40  | R1,440  |
| *LPG         | 13,80 kWh/kg             | 12,83 kWh/kg             | R23,44  | R1,826  |

\*Indicative prices as per DOE 1 February 2017