Sprinx

Case study

Hotel Des Indes
The Hague

HOTEL DES INDES
A LUXURY COLLECTION HOTEL
The Hague

Member of
Starwood Hotels and
Resorts Worldwide

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"We are delighted with the results of the Cheetah system. Since the implementation, we are saving over 60% on energy consumption and at the same time, improving the comfort level for our kitchen staff."

Pierre-Henri Bovsovers
General Manager

Significant energy savings for Hotel Des Indes

Cheetah system fits well in the green program of Hotel Des Indes by saving more than 60% on energy consumption on kitchen ventilation.

Hotel Des Indes, a Luxury Collection Hotel is located in The Hague and member of the Starwood Hotels and Resorts Worldwide. Originally built as a town palace, the hotel opened its doors as a luxury hotel in 1881 and ever since has hosted kings, heads of state, aristocrats and celebrities.

"It is fitting that this landmark hotel for The Netherlands is now in the company of some of the world's finest hotels and resorts as part of our Luxury Collection portfolio. The Hague is a wonderful destination for a luxury property and the addition of this hotel to the portfolio gives our global travelers a further choice of unique European city hotels to experience and explore," said Michael Wale, Senior Vice President, North West Europe, Starwood Hotels & Resorts.

Hotel Des Indes has been the initiator of "The Green Council" within Starwood. The Green Council was founded one and a half year ago to generate and implement energy saving initiatives for Hotel Des Indes. Since the implementation, the Green Council became a mandatory project for all Starwood Hotels in the EAME (Europe, Africa, Middle East) division.

Through collaboration with their hotel owners, franchisees, suppliers and business partners, Starwood Hotels & Resorts Worldwide, Inc. will actively work to reduce the environmental impact of their business activities and to continually improve and innovate on practices aimed at:

- conserving natural resources,
- minimizing waste and pollution,
- enhancing indoor environmental quality,
- establishing and reporting on key environmental performance indicators, and
- raising environmental awareness among our associates, guests and communities.

(Source website Starwood)

From day one of the introduction of the ***Cheetah Energy Control System*** to Hotel Des Indes, both the management and the Chief Engineer were very keen to install the ***Cheetah system*** in their kitchen. Agreed was to run a trial period first. The results of this trial were very positive with energy savings of over 60% and a payback time of just 1,25 years!

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Reduction electricity kWh	62%
Reduction conditioned air	70%
Return of investment	1,25 years
CO_2 emission saved	26.421kg

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Energy savings for Hotel Des Indes, The Hague

The extract and the supply fan of the kitchen ventilation installation of Hotel Des Indes were monitored for two weeks. One week without and one week with the ***Cheetah Energy Control System***.
Also the heating energy needed to maintain a fixed supply air temperature of 15°C was monitored during the same two weeks.

The graphs below show the ventilation and heating energy consumption saved with the ***Cheetah system***, running considerably lower than pre installation. The orange coloured day represents the change day on which we switched on the ***Cheetah system***.
Before the ***Cheetah system*** was installed both fans ran at 24 hours per day consuming 96kWh of electricity per day. After the installation this is reduced to an average of 36 kWh per day and the amount of conditioned air has been reduced significantly.
Obviously the savings on electricity applies all year, the savings on heating only in the heating season.
The total savings were more than 60% in the trial period and have exceeded the calculated savings in the initial proposal documents.
The General Manager of Hotel Des Indes would be very happy if other Starwood properties would consider the implementation of the ***Cheetah system*** in their hotel.