

# MAKING YOUR HOTEL SMARTER

## 8%

### whole-building energy savings

Why hotels? Having already adopted technologies like mobile check-in, many hotels are well positioned to invest in smart energy-saving technologies. The hotel of the future will boast interconnected systems that both save energy and improve guest experience.

#### Top smart technologies available to hotels<sup>1</sup>

Technology	Cost	Energy savings
Wireless occupancy sensors	Medium	Medium
Wireless window and patio door contacts	Medium	Low
Smart or learning thermostats	High	Medium
Electronic solar film or automated shades	High	Medium
Energy mgmt and info systems	Varies	High
Smart pool pump controls	Low	Low
CO <sub>2</sub> demand control ventilation packages	Medium	Medium

#### Expected energy savings

The average hotel can save 8% of its annual whole-building energy consumption by installing smart technologies. The biggest opportunity for energy savings lies in reducing heating, cooling, and ventilation in unrented and unoccupied rooms, especially when the energy system is tied into guest check-in. Ballrooms, conference rooms, and the pool and spa are other areas where smart technologies can save energy.

#### Other benefits

Some hotels offer their guests smartphone apps to order room service, control the TV, and make dinner reservations.<sup>2</sup> To enhance their experience, guests could also control temperature, lighting, and window shading through these apps.

1. Energy savings assumptions (% of estimated whole-building energy consumption): Low: 0.6–2.99%, Medium: 3–5.99%, High: 6% or greater. Cost assumptions (% of estimated annual energy budget): Low: 0.8–9.99%, Medium: 10–39.99%, High: 40% or greater.

2. Deloitte 2017 Travel and Hospitality Industry Outlook.