



Intelli-Hood<sup>®</sup> demand control kitchen ventilation is installed into the kitchen hoods at Paradise City in Incheon, South Korea.



**ENERGY (kWh)  
SAVINGS / YEAR**  
2,489,146 kWh  
49% reduction



**UTILITY  
SAVINGS / YEAR**  
\$295,968 USD  
2.1 Year ROI



**CO<sub>2</sub> SAVINGS**  
3,879,972 lbs



**AVG FAN SPEED**  
66%



For more information, visit  
[INTELLIHOOD.COM](http://INTELLIHOOD.COM)

**Context:**

Paradise City is a resort complex located in Incheon, South Korea. The resort combines multi-purpose hospitality facilities including a hotel, casino, and convention center. Throughout the property, there are kitchens in nearly every facility, including the hotel, casino, spa, and bars. Recently, the resort conducted energy audits across its kitchens to identify areas of improvement. One of the top priorities was to address the kitchen ventilation system, which consisted of 14 kitchens with hoods running at an average of 17.3 hours per day. To help control operating costs, they decided to implement a demand control kitchen ventilation system to self-modulate each kitchen, according to the cooking conditions.

**Result:**

With the implementation of Intelli-Hood into all the kitchen hoods across the property, Paradise City was able to reduce its fan speed from 100% all the time to an average of 66%, resulting in a savings of \$295,968 in the first year. The system will pay for itself in about two years. With this improvement, they were not only able to reduce their immediate energy consumption, but they are able to use the Intelli-Hood technology to continually monitor their usage and adjust as necessary.

