About 85% of water used in a hotel goes to guestrooms, cooling towers, cold water supply to hot water system and food & beverage outlets. Water usage pattern may vary depending on the facilities and services provided by the hotel.

Figure 1 below shows a breakdown of overall water usage statistics in the hotel sector.

Figure 1: Breakdown of Water Usage for 4 and 5-Star Hotels with Water-Cooled Cooling Towers

The Business Activity Indicators (BAIs) for hotels are the number of guestrooms and the hotel’s annual average occupancy rate. Water Efficiency Index (WEI) for hotels is established as:

\[
\text{Hotel WEI (m}^3\text{/ Occupied Guestroom / Day)} = \frac{\text{Annual Water Consumption}}{\text{No. of Guestrooms} \times \text{Average Occupancy Rate} \times \text{Operation Days Per Year}}
\]

4 and 5-star hotels are benchmarked separately to allow for a fair comparison of their respective water usages.
The distribution of WEIs for 4 and 5-star hotels with water-cooled cooling towers are shown in Figure 2 and Figure 3 respectively.

**Figure 2: Water Efficiency Index for 4-Star Hotels (Exclude Resort Style) with Water-Cooled Cooling Towers**

**Figure 3: Water Efficiency Index for 5-Star Hotels (Exclude Resort Style) with Water-Cooled Cooling Towers**