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#### Introduction

Greenview & Horwath HTL are pleased to present the fifth edition of the Asia Pacific Survey of Hotel Sustainability Trends.

The participation of over 2,000 hotels and serviced apartments across the region is encouraging. The large data set confirms that the vast majority of hotels in the region are paying attention to sustainability.

Hotels are tracking energy usage, giving environmental training to staff, running basic Programs such as linen/towel reuse, and keeping properties efficient with preventive maintenance. Performance in energy and water usage continues to be elusive in comparison across various hotels, but the data quality improves and hotels can see their own performance over time through tracking.

The hotel industry is poised to move into a next phase of sustainability, where the new technology, innovative Programs, and solutions needed to solve climate change become more widespread across the region's portfolio and pipeline. Next generation best practices such as renewable energy and water recycling are still nascent in the region, but we see the trend toward them.

Moving into the next phase will require raising awareness and scaling of solutions worldwide. That's why we're proud to support the industry's effort to benchmark best practices in sustainability, with the results of this report contributing to the Green Lodging and Hotel Footprinting Tool, other freely available initiatives for hoteliers to understand how their properties are positioned in sustainability.

We would like to acknowledge and thank the Honorary Advisory Board for the <u>Horwath HTL Annual Hotel Industry Surveys</u> and the supporting country hotel associations for their participation and strong support.

**Eric Ricaurte**Founder & CEO

Greenview

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#### Overview

Covid-19 has turned the world upside down. History has shown that epidemics/pandemics have an immediate impact on the hospitality and tourism and travel industry (or sector). As the century began, it was unforeseen that the negative externalities that impact much of the developing world would return home. Yet, Covid-19 has spread around the globe with unprecedented consequences for the health of millions of people. While the pandemic is still in progress, with new cases being reported on a daily basis globally, the resilience of global society is constantly being challenged.

The effect of COVID-19 on the hospitality industry is no exception and can be observed in all the regions including North America, Europe, Asia-Pacific, and the rest of the world. The nature of the business, which is always related to people jetting around the globe, has been stunted due to the government measures, international travel restrictions, and media coverage. Additionally, due to the origin of the COVID-19 outbreak, many cities in the Asia-Pacific are on complete lockdown, which is in turn restricting the growth of the hospitality industry.

The ever-expanding global tourism industry was one of the major factors driving the growth of the hospitality industry before the Covid-19 outbreak. As per the growth projection made by the World Tourism Organization (UNWTO), the number of tourist arrivals across the globe was expected to cross 1.5 billion by 2020. Key factors affecting the market after the pandemic include the decrease in tours and travels as most of the flights are getting cancelled. The government across the globe are cancelling the foreign visits and locking down most of the area which is one of the other major reasons behind the slowing down of hospitality industry.

The COVID-19 pandemic has led to new social-distancing measures and disinfecting tactics that have changed how food and other hotel amenities are served, but for the most part, the pandemic hasn't led hotels to bring back less sustainable items, such as single-use plastics. For destinations and hospitality industries, sustainability is an overall approach aimed to address the most crucial problems we face as a society including climate change, economic inequality, food waste and insecurity, which requires the contributions of everyone from everywhere. In fact, the "new normal" cannot be implemented without sustainability as a core value that strengthens the entire business structure. From interior design to food waste, it is now time to bring together long-term vision with momentary short-term gains for the sake of the better picture.

To understand the region's status on sustainability implementation and progress during the pandemic, we asked hotels regarding their sustainability practices in the Horwath HTL Asia Pacific Hotel Industry Surveys, including 2019 calendar year utility data for energy and water usage. The 2020 Horwath HTL Asia Pacific Hotel Industry Surveys received data for 2,095 hotels across 16 countries (1,857 full-service and 238 limited service). With each year the data set, data quality, and uptake in best practices have improved and are likely to continue to become more robust.

Some of the additional sustainability questions included in this year's survey are:

- **High Efficiency Boilers (>85% efficiency)** whether boilers are highly efficient
- High Efficiency Chillers (>0.5 kW/ton) whether chillers are highly efficient
- Recover Waste Heat for Reuse whether hotels recover waste heat from kitchen and laundry for reuse
- Water Filtration/Hydration Station System whether water filtration/hydration systems are implemented for guests and meeting attendees instead of plastic bottled water
- Single-use Plastic Elimination whether the property/hotel has eliminated single-use plastics or reduced to an absolute minimum
- Wastewater Treatment whether wastewater is treated by municipal sewage treatment or on-site wastewater treatment
- Capture Rainwater whether rainwater is captured for property use
- Native or Drought-Tolerant Landscaping whether native/ drought tolerant landscaping is used to reduce irrigation needs
- **Green Team Budget** whether a sustainability coordinator or green team has a budget to implement green initiatives
- Green Initiatives Communicated whether a green initiative is communicated in the Guest Services Directory (or elsewhere) within the guestrooms
- Guest Support whether guests support environmental, social, and community activities. For example, donating money or joining in with an activity
- Reward Program whether reward programs are implemented for sustainable guests
- Low- or no-VOC whether low- or no-VOC paints, finishes and other items are specified for renovations or additions in hotels
- HVAC system filters whether HVAC system filters are routinely checked and changed
- **Vegetarian menu options** whether vegetarian menu options are offered in the restaurant(s)
- Sustainable Purchasing Policy whether the property has a sustainable seafood purchasing policy
- Human Rights whether the property has a program in place to monitor operations and evaluate suppliers in human rights areas including modern slavery

We then calculated the greenhouse gas (carbon) emissions of the hotels using the energy data, producing the metrics according to the same methodology used in the <u>Cornell Hotel Sustainability</u> Benchmarking Index.



# **Survey Accuracy**

The benchmarking data presented offers users, by and large, a baseline reference on the operational performance and prevalence of practices among hotels in each category. Great emphasis has been placed on presenting accurate benchmarks, and the following fundamentals abided in the derivation of results.

#### Cost and Usage Variance

Cost and usage metrics vary widely across properties and are determined by several factors, as some figures reported from utility invoices will include large facility components adjacent to but separate from the property's actual operations.

Likewise, data may be underreported or allocated disproportionately. We used several levels of validity testing to remove outliers and inaccurate data; however, we must acknowledge that certain outliers may always exist and be valid data under nuanced circumstances. Finally, the hotels in each country data may vary each year, and therefore, the comparisons do not represent like-for-like comparisons.

#### **Requisite Sample Size**

Each average benchmark figure will only be presented if the number of respondents is more than ten percent of the total respondents in the respective column group, or  $\geq$  five respondents overall. Anything less than ten percent/five respondents will be shown as "Not Available" or "N/A".

#### **Overall Respondents by Country**

Country	Full Service	Ltd Service	Grand Total
Australia	102	20	122
China	1,039	53	1,092
Hong Kong	70	12	82
India	47	20	67
Indonesia	134	23	157
Japan	66	20	86
Korea	16	8	24
Malaysia	89	12	101
Maldives	16	-	16
Myanmar	9	-	9
Philippines	17	16	33
Singapore	70	16	86
Thailand	137	32	169
Vietnam	34	5	39
Total	1,846	237	2,083

<sup>\*</sup>Data received from Cambodia & Laos were not included due to lack of minimum sample size

# **Key Findings**

# **Trends in Energy Usage**

- Korea, Japan, Indonesia, and Hong Kong recorded reduction in energy usage per square metre for all hotel types in 2019 compared to 2018.
- India posted continuous reduction in energy usage per square metre for all hotel types since 2016, where else, Australia, Malaysia, Singapore, Thailand, and Vietnam recorded continuous reduction since 2017.
- Full-service hotels in Australia, India, Indonesia, and the Philippines reported reduction in energy usage per square metre in 2019 with year over year change of -5.95%, -23.04%, -2.27% and -1.81% compared to 0.38%, 10.38%, 0.33% and 15.01% respectively, in 2018.
- In 2018, full-service hotels in China and Malaysia improved energy usage per square metre with year over year change of -1.37% and -7.65% respectively. However, in 2019 these numbers increased to 1.88% and 2.76% respectively.
- Limited service hotels in Indonesia and Singapore continually reduced energy usage per square metre with year over year change of -5.16% and -0.21% in 2018 and -7.72% and -23.52% in 2019.
- Limited service hotels in China and Korea recorded increased energy usage per square meter in 2018 with year over year change of 4.47% and 8.59%, however, these numbers improved to -19.83% and -12.54% in 2019.
- In 2018, limited service hotels in Australia and India recorded improved energy usage per square meter with year over year change of -10.57% and -11.52% respectively compared to 2019 with year over year change of 32.07% and 25.22%.

### **Trends in Energy Cost**

- Indonesia reported continuous reduction in energy cost per square meters for all hotel types since 2015 with overall reduction of -30.98%.
- Malaysia and Thailand posted continuous reduction in energy cost per square meter for all hotel types since 2017 with overall reduction of -17.21% and -7.32%.
- Australia, India, Japan, Korea, and Singapore recorded reduced energy cost per square meter for all hotel types in 2019 with year over year change of -8.11%, -12.21%, -11.31%, -1.88% and -2.54% respectively compared to 25.82%, 18.06%, 15.72%, 0.68% and 11.77% year over year change respectively in 2018.
- Full-service hotels in Indonesia and Singapore continually improved energy cost per square meter since 2014 with overall year over year change of -31.63% and 36.50%, however, Singapore recorded a slight increase in 2018 with year over year change of 11.91%.
- In 2019, full-service hotels in Australia, India, Korea, the Philippines, and Thailand reported reduction in energy cost per square meter in 2019 with year over year change of -8.14%, -24.87%, -15.78%, -6.21% and -10.68% compared to 25.59%, 22.51%, 1.79%, 3.09% and 0.23% in 2018.
- Limited service hotels in Indonesia and Singapore recorded continuous reduction in energy cost per square metre with year over year change of -8.29% and -11.07% respectively in 2017 and -11.11% and -6.98% respectively in 2018. In 2019, Singapore reduced energy cost per square meter by -3.47%, however, Indonesia recorded a slight increase by 3.27%.
- Limited service hotels in Australia and Thailand recorded increased energy cost per square meter by 4.33% and 10.56% respectively in 2017 and by 3.69% and 5.99% respectively in 2018. However, these numbers improved in 2019 with year over year change of -11.74% and -1.40% for Australia and Thailand, respectively.
- Limited service hotels in India reported increased energy cost per square metre since 2015 with overall increase of 61.24%.

# **Key Findings**

# **Trends in Water Usage**

- India recorded continuous reduction in water usage per occupied room for all hotel types since 2016 with year over year change of -12.49% in 2016, -1.31% in 2017, -13.34% in 2018 and -14.41% in 2019.
- Korea and Singapore continually reduced water usage per occupied room for all hotel types since 2018 with year over year change of -4.34% and -2.18% in 2018 and -2.77% and -16.60% in 2019.
- Australia, Indonesia, Japan, Malaysia, Maldives, and Thailand posted reduction in water usage per occupied room for all hotel types in 2019 by -18.56%, -3.48%, -26.02%, -5.71%, -20.15% and -5.16% respectively compared to 2018 where all countries reported increased water usage.
- Full-service hotels in Australia, India, Japan, Malaysia, Maldives, the Philippines, and Thailand recorded reduced water usage per occupied room with year over year change of -10.16%, -24.99%, -16.98%, -6.33%, -20.15%, -12.89%, and -9.41% respectively in 2019 compared to 2018.
- Korea and Singapore posted increased water usage per occupied room for full-service hotels from 2015 to 2018 with overall increase of 43.07% and 37.62% respectively. However, both countries recorded reduced water usage per occupied room for full-service hotels in 2019 with year over year change of -20.87% and -18.27% respectively.
- Full-service hotels in China and Vietnam reported increased water usage per occupied room in 2019 with year over year change 2.74% and 41.57% respectively compared to 2018 with year over year change of -0.79% and -14.85% respectively.
- Limited service hotels in India continually reduced water usage per occupied room from 2016 to 2018 but increased in 2019 with year over year change of -35.55% in 2016, -0.97% in 2017, -38.64% in 2018, and 83.32% in 2019.
- In 2018, limited service hotels in Australia and Singapore posted increased water usage per occupied room with year over year change of 59.18% and 11.37% respectively compared to 2019 with year over year change of -32.89% and -7.83% respectively.

#### **Trends in Water Cost**

- Maldives and the Philippines recorded continual reduction in water cost per occupied room for all hotel types by -5.82% and -66.27% respectively in 2018 and by -2.91% and -7.84% respectively in 2019.
- Australia, Korea, Singapore, and Thailand reduced water cost per occupied room for all hotel types with year over year change of -6.86%, -10.00%, -19.76% and -1.70% respectively in 2019 compared to 2018 where all these countries recorded increased water cost per occupied room.
- Indonesia, Malaysia, and Vietnam posted increased water cost per occupied room for all hotel types since 2017 with overall year over year change of 16.87%, 9.69% and 16.06% respectively.
- India on the other hand, recorded reduced water cost per occupied room for all hotel types in 2017 and 2018 with overall reduction of -37.15%, however, this number increased in 2019 to 48.18%.
- Full-service hotels in Australia and Maldives reduced water cost per occupied room since 2018 with year over year change -2.80% and -5.82% respectively in 2018 and -3.73% and -2.91% respectively in 2019.
- Full-service hotels in Indonesia reported increased water cost per occupied room since 2017 with overall increase of 51.30%. Full-service hotels in India, Malaysia and Vietnam posted increased water cost per occupied room with year over year change of 12.32%, 2.61%, and 1.37% respectively in 2018 and 19.95%, 18.78% and 12.21% respectively in 2019.
- Limited service hotels in Australia, China, and Malaysia recorded reduced water cost per occupied room in 2019 with year over year change of -33.86%, -27.13% and -31.56% respectively compared to 2018.
- Limited service hotels in Indonesia and Singapore reduced water cost per occupied room in 2018 by -18.31% and -9.02% respectively, however, this number increased to 19.65% and 33.10% in 2019.

# **Key Findings**

#### **Top Common Attributes**

Practices most common among hotels with uptake rate over 75%. Hotels considered lagging if they do not have practices in place.

#### • Water Tracking - 98%

Around 98% of participating hotels track water consumption on regular basis. Countries such as India, Thailand, Malaysia, the Philippines, Japan, Vietnam, Hong Kong, China, Vietnam, Korea, and Myanmar have over 98% of uptake rate for this practice. There is a probability that hotels that do not track water consumptions are less likely to participate resulting in nearly 100% uptake rate in some of these countries.

#### • Energy Tracking - 97%

This is a common practice, with 97% of participating hotels tracking energy consumption. Countries such as Thailand, Maldives, Japan, Vietnam, China, Hong Kong, Korea, and Myanmar reported over a 97% uptake rate, concluding that hotels which do not track energy consumptions are less likely to participate in the survey.

#### Preventive Maintenance Program - 96%

On average, 96% of respondents have this practice in place and considered as the most common practice among hotels. Hotels from Thailand, Singapore, Australia, the Philippines, Maldives, Vietnam, China, and Myanmar recorded over 96% prevalence. We recognize that hotels that do not have preventive maintenance program in place are less likely to participate in the survey.

#### • HVAC Routinely Checked - 89%

The HVAC technician will check the overall condition of the system, looking for problems like dirty or loose electrical connections, refrigerant leaks, malfunctioning safety systems or leaking seals around the air handler. Generally, 89% of participating hotels agreed having their HVAC inspected, cleaned, and serviced. India, Australia, Vietnam, Korea, and Myanmar recorded over 89% uptake rate for this practice.

#### • ≥ 75% LED Lighting - 86%

Over 86% of hotels within the region have their interior space equipped with LED lighting compared to 78% uptake in 2019. Countries such as Thailand, Malaysia, Singapore, the Philippines, Maldives, Vietnam, China, Korea, and Myanmar reported more than 86% uptake rate for this practice.

#### Towel Reuse Program - 86%

Around 86% of participating hotels in the region have a towel reuse program in place. Countries such as India, Thailand, Singapore, Maldives, Vietnam, Hong Kong, Korea, and Myanmar reported over 86% prevalence for this practice. Although towel reuse program is the most customary practice within the region, it is crucial to note here that about 14% of the participating hotels still do not have this practice in place and the number has remained almost the same since 2016. Countries such as Japan, the Philippines and Indonesia recorded less than 80% uptake rate for this practice.

Employee Volunteering Opps During Work Hours - 81%
 Overall, 81% of hotels have employee volunteering programs in place, a slight increased from 2019. Countries such as India, the Philippines, Maldives, Korea, and Myanmar projected over 90% uptake for this practice.

#### Vegetarian Menu Options - 82%

Generally, 82% of participating hotels in the region agreed having vegetarian menu options in their hotel. Countries such as Thailand, Malaysia, Vietnam, and Myanmar recorded over 90% uptake rate for this practice.

#### • Single-Use Plastics Elimination - 82%

Global initiatives to reduce or eliminate the consumption of single-use plastic have been gaining momentum. Generally, 82% of respondents have either eliminated or are in progress of eliminating single use plastics in their hotels to absolute minimum. Countries such as India, Thailand, Indonesia, the Philippines, Maldives, China, and Myanmar recorded over 80% prevalence. There is a probability that hotels that do not eliminate single use plastics are less likely to participate resulting in nearly 100% uptake rate in some of these countries.

#### • Recycling in Common Areas - 78%

Recycling is an alternative option to "traditional" waste disposal that can reduce usage of raw materials, thus reducing greenhouse gas emissions. Countries such as Thailand, Japan, Korea, and Myanmar have over 85% uptake rate for this practice. Overall, 78% of respondents within the region practice recycling in common areas. The highest uptake rate recorded in Korea by 96%.

#### • At least 75% of non-smoking guestrooms - 77%

Around 77% of hotels within the region have over 75% of non-smoking guestrooms. Countries such as Thailand, Singapore, Australia, the Philippines, Maldives, and Korea have over 80% prevalence for this practice. There is a probability that hotels that do not have over 75% of non-smoking guestrooms are less likely to participate resulting in nearly 100% uptake rate in some of these countries.

#### Local Procurement Policy - 77%

Commitment to give preference to locally produced goods and service, purchased from a local and independent business, over those produced more distantly is local procurement policy. Generally, 77% of participating hotels have a local procurement policy in place. India, Thailand, the Philippines, Maldives, China, and Myanmar recorded over 80% uptake rate for this practice.

### • At least 75% Low-Flow Toilets - 75%

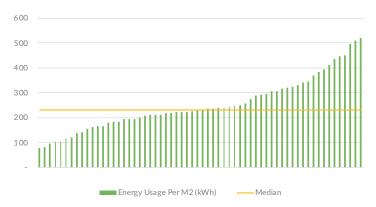
Low Flow Fixtures are an easy water saving techniques. Throughout the region, around 75% of participating hotels have over 75% of low-flow toilets in their hotels. Countries such as India, the Philippines, Maldives, and Korea reported over 80%.

#### • Written Environmental Policy(ies) - 75%

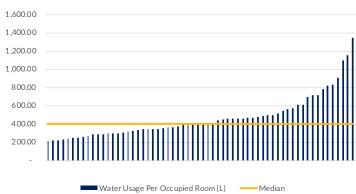
Written Environmental Policy(ies) is one of the practices that records around 75% and above uptake rate through the years since 2017. Overall, 75% of hotels have written environmental policy(ies) in place. Hoteliers are voluntarily choosing to set up an environmental policy for their hotels. Countries such as Maldives, Korea, and Myanmar reported over 80% prevalence, where else Vietnam posted over 90% uptake rate for this practice.



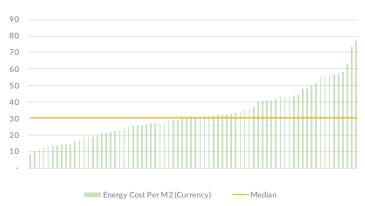
#### Energy Usage Per Square Metre (kWh)

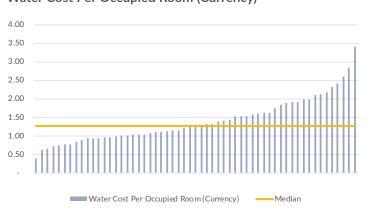


#### Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





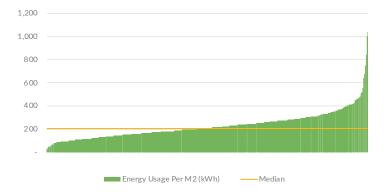
		ENE		RGY			WA	TER		GHG EMISSIONS		
AUSTRAI	LIA	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	
	Count	62	68	74	88	54	62	49	57	63	70	
	High	520	181	78	14	7,147	1,341	13	3	420	124	
	Mean	254	65	33	7	2,168	467	7	1	160	40	
ALL	Q3	315	75	42	9	2,629	508	9	2	198	44	
	Median	231	60	31	7	1,667	398	7	1	129	35	
	Q1	186	47	22	5	1,257	305	4	1	102	27	
	Low	77	14	9	2	352	211	1	0	67	7	
	Count	55	57	68	77	51	55	45	49	57	59	
	High	520	181	78	14	7,147	1,341	13	3	420	124	
	Mean	257	71	33	7	2,184	493	7	1	160	43	
FULL SERVICE	Q3	307	79	41	9	2,562	555	9	2	190	46	
SERVICE	Median	233	65	31	7	1,679	442	7	1	129	38	
	Q1	194	49	23	5	1,274	345	5	1	101	30	
	Low	96	37	9	2	352	226	1	0	67	19	
	Count	7	11	6	11		7		8	6	11	
	High	449	73	59	13		347		2	259	42	
	Mean	231	33	28	5		261		1	162	20	
LIMITED	Q3	318	30	40	5		285		1	210	24	
SERVICE	Median	211	26	23	4		248		1	157	17	
	Q1	123	25	13	4		227		1	116	10	
	Low	77	14	10	3		211		1	67	7	
	Count	6	7	11	10	5	5	6		7	8	
	High	520	109	78	14	5,106	1,341	10		420	124	
	Mean	277	90	34	11	2,070	775	6		212	64	
RESORT	Q3	350	106	42	12	1,994	715	8		304	69	
	Median	238	94	27	11	1,426	713	6		182	57	
	Q1	181	82	18	10	1,086	612	5		97	44	
	Low	118	50	14	7	738	496	3		83	38	
	Count	50	56	56	70	44	52	40	49	50	57	
	High	509	181	74	14	7,147	1,157	13	3	298	100	
	Mean	258	64	33	7	2,064	444	7	1	146	37	
CITY/	Q3	315	72	42	9	2,356	480	9	2	178	42	
URBAN	Median	236	58	31	6	1,617	395	6	1	127	33	
	Q1	195	47	26	5	1,211	302	4	1	103	26	
	Low	96	14	9	3	352	211	1	0	67	7	
	Count	5	14	5	5	332	211	1	U	0/	,	
		449										
	High			26	6							
SERVICED	Mean	192		17	5							
APARTMENT	Q3	211		20	5							
	Median	141		15	5							
	Q1	82		14	3							
	Low	77		10	3							

ALICTRALIA	А	LL	FULL S	ERVICE	LTD SE	RVICE	RES	ORT	CITY/L	JRBAN	S. APAR	RTMENT
AUSTRALIA	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	121	84%	101	86%	20	75%	12	92%	83	87%	21	71%
Opt-Out Linen Reuse	97	59%	81	60%	16	50%	9	44%	70	66%	14	36%
≥75% LED Lighting	120	84%	100	85%	20	80%	12	67%	82	93%	21	57%
Variable Frequency Drives	116	68%	97	77%	19	21%	11	73%	82	71%	18	50%
- Main Air Handling Units	77	87%	74	86%			8	100%	58	83%	7	100%
- Kitchen Hoods	73	59%	69	59%			8	75%	55	56%	6	83%
- Elevators	74	70%	71	70%			8	50%	55	71%	7	86%
- Water Pumps	76	89%	73	89%			8	100%	58	88%	6	83%
- Refrigeration Units	72	46%	69	46%			8	38%	57	47%		
- Other	66	64%	63	65%			6	50%	55	67%		
Renewable Power Generated?	117	8%	97	7%	20	10%	11	9%	82	7%	19	5%
- Wind Power	7	43%	6	50%					6	50%		
- Solar PV	8	88%	7	86%					6	83%		
- Heat Pump												
- Solar Thermal	7	57%	6	67%					6	67%		
- Geothermal	7	43%	6	50%					6	50%		
- Hydroelectric	7	43%	6	50%					6	50%		
- Cogeneration	7	57%	6	67%					6	50%		
- Other	7	71%	6	83%					6	83%		
Carbon Offsets/Renewable Energy Cert. Purchase	101	9%	83	10%	18	6%	10	0%	73	11%	14	0%
≥75% Guestrooms Have Digital Thermostats	102	73%	85	78%	17	47%	10	70%	73	79%	15	40%
≥75% Guestrooms Have Ocupancy Sensors	102	44%	84	49%	18	22%	10	50%	72	49%	16	19%
≥75% Meeting Rooms Have Digital Thermostats	98	54%	82	61%	16	19%	10	60%	71	56%	13	38%
≥75% Meeting Rooms Have Occupancy Sensors	98	23%	82	28%	16	0%	10	30%	71	25%	13	15%
High Efficiency Boilers (>85% efficiency)	94	68%	78	71%	16	56%	8	63%	69	68%	13	69%
High Efficient Chillers (>0.5 kW/ton)	93	70%	78	77%	15	33%	8	75%	69	78%	12	42%
Energy Sub-Metering	114	44%	95	46%	19	32%	10	50%	81	47%	18	39%
- Fitness Facility	46	39%	41	41%	5	20%	5	20%	36	36%		
- Food & Beverage Facilities	46	65%	40	63%	6	83%	5	60%	36	64%		
- Guestrooms	48	56%	43	53%	5	80%	5	60%	36	47%	7	100%
- Public Spaces	48	56%	43	53%	5	80%	5	40%	36	50%	7	100%
Energy Tracking	105	94%	87	97%	18	83%	10	100%	76	96%	15	80%
Benchmarking Energy among Peers	104	69%	86	74%	18	44%	10	90%	76	72%	14	36%
Energy Audit	101	54%	85	53%	16	63%	10	50%	74	58%	13	38%
Electric Vehicles	105	18%	86	22%	19	0%	10	40%	76	20%	15	0%
Recycling in Common Areas	120	81%	100	83%	20	70%	12	75%	81	83%	22	73%
Recycling Bins in Guestrooms	121	22%	101	23%	20	20%	12	33%	82	22%	22	18%
≥75% Guestrooms with Soap/Shampoo Dispensers	121	13%	101	9%	20	35%	12	0%	82	9%	22	36%
Waste and Recycling Tracking	121	58%	101	62%	20	35%	12	42%	82	70%	22	27%
Soap Donation	120	52%	100	57%	20	25%	12	42%	81	64%	22	18%
≥75% F&B with Reusable Food Service Ware	118	71%	99	76%	19	47%	12	67%	80	80%	21	48%
Food Waste Composting	121	38%	102	41%	19	21%	12	33%	83	47%	21	14%
Waste Audit	119	42%	100	44%	19	32%	12	50%	80	49%	22	9%
Food Waste Tracking	118	48%	100	52%	18	28%	12	50%	80	54%	21	24%
Food Waste Prevention Strategies	112	32%	94	34%	18	22%	11	36%	75	35%	21	24%
- Training	36	94%	32	94%					26	92%	5	100%
- Adjusting portion size	36	89%	32	91%					26	88%	5	100%
- Redesign menu	36	89%	32	91%					26	85%	5	100%
- Change size of serving vessel	36	81%	32	81%					26	81%	5	100%

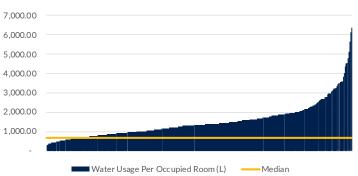
ALICTRALIA	A	LL	FULL SI	ERVICE	LTD SE	RVICE	RES	ORT	CITY/L	JRBAN	S. APAR	TMENT
AUSTRALIA	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Water Filtration/Hydration Station	111	50%	93	54%	18	33%	11	73%	76	55%	19	21%
Single-Use Plastics Eliminated	111	74%	93	73%	18	78%	11	82%	76	75%	19	63%
Waste Water Treatment	110	46%	92	48%	18	39%	10	30%	76	54%	19	26%
Food Donation	116	20%	97	21%	19	16%	12	25%	79	25%	20	0%
≥ 75% Low-Flow Toilets	114	80%	96	78%	18	89%	12	92%	77	78%	20	75%
≥ 75% Efficient Faucets	112	78%	95	81%	17	59%	12	67%	77	81%	18	67%
≥ 75% Efficient Showerheads	113	74%	95	76%	18	67%	12	67%	77	75%	19	68%
Water Tracking	115	90%	96	93%	19	79%	12	100%	78	96%	20	60%
Graywater Reuse	116	7%	97	6%	19	11%	12	17%	78	1%	21	24%
Low-flow Pre-Rinse Kitchen Spray Valves	115	57%	97	62%	18	33%	12	50%	78	67%	20	25%
Water Sub-Metering	115	40%	97	41%	18	33%	12	92%	78	36%	20	35%
- Fitness Facility	43	26%	38	26%	5	20%	10	30%	27	26%	6	17%
- Food & Beverage Facilities	44	66%	38	66%	6	67%	10	60%	28	68%	6	67%
- Guestrooms	44	68%	38	66%	6	83%	10	60%	28		6	100%
	-		37	59%	5	80%	10	90%	26	64%	6	
- Landscaping/grounds keeping  Rainwater Capture	42	62%								46%		83%
<u>'</u>	111	14%	92	13%	19	16%	11	18%	75	9%	20	25%
Native or Drought-Tolerant Landscaping	110	53%	91	48%	19	74%	11	73%	74	47%	20	60%
Preventive Maintainance program	121	98%	101	98%	20	95%	12	100%	82	98%	22	95%
Written Environmental Policy(ies)	121	74%	101	76%	20	60%	12	92%	82	73%	22	59%
Green Practices Shared on Website	119	57%	99	62%	20	35%	11	73%	81	58%	22	36%
Green Champion	121	67%	101	70%	20	50%	12	75%	82	72%	22	36%
Green Team	120	58%	101	61%	19	37%	12	67%	81	65%	22	23%
Green Team Budget	117	38%	98	40%	19	26%	12	25%	78	44%	22	23%
Staff Training	120	59%	101	63%	19	37%	12	33%	81	67%	22	41%
Employee Volunteering Opps During Work Hours	120	71%	100	76%	20	45%	12	83%	81	74%	22	55%
Staff Recognition	120	62%	100	67%	20	35%	12	67%	81	65%	22	41%
Comment/Suggestion Process	121	55%	101	61%	20	25%	12	67%	82	60%	22	32%
>50% Green Cleaning Products	120	59%	100	63%	20	40%	12	33%	81	67%	22	36%
Green Initiatives Communication in Guestrooms	117	53%	97	55%	20	45%	12	50%	79	56%	21	33%
Involve Guest to Support Green Initiatives	117	50%	97	54%	20	30%	12	58%	79	54%	21	24%
Reward Program for Sustainable Guests	117	25%	98	27%	19	16%	12	42%	80	30%	20	0%
100% non-smoking	119	88%	100	88%	19	89%	12	50%	82	95%	20	80%
≥ 75% of non-smoking guestrooms	122	94%	102	95%	20	90%	12	100%	83	96%	22	82%
3rd-party Certification	118	29%	99	26%	19	42%	12	25%	81	32%	20	15%
Carbon Footprint Measured	118	45%	99	45%	19	42%	12	50%	81	54%	20	10%
Local Procurement Policy	116	78%	98	81%	18	61%	12	92%	79	84%	20	45%
Green Roof	117	10%	97	12%	20	0%	12	8%	79	11%	21	5%
Vegetable Garden	117	4%	97	5%	20	0%	12	0%	79	6%	21	0%
Beekeeping	117	9%	97	11%	20	0%	12	8%	79	11%	21	0%
Low-VOC or VOC-free paints in renovations/additions	112	54%	93	57%	19	42%	11	27%	76	63%	20	35%
HVAC Filters Routinely Checked	112	96%	93	97%	19	89%	12	100%	76	96%	19	89%
Vegetarian Menu Options	112	81%	94	86%	18	56%	12	83%	76	91%	19	47%
Sustainable Seafood Procurement	109	54%	91	64%	18	6%	12	75%	73	60%	19	21%
Evaluate suppliers in human rights areas	108	57%	90	59%	18	50%	12	67%	73	62%	18	44%
Procurement requirements	116	50%	98	49%	18	56%	12	58%	79	57%	20	15%
- Contractors	108	94%	88	94%	20	95%	12	92%	80	95%	12	92%
- Service Providers	52	83%	43	84%	9	78%	7	71%	40	85%	12	12/0
- Suppliers	110	99%	90	99%	20	100%	12	100%	81	99%	12	100%
··	-										12	100%
- Other	47	79%	38	79%	9	78%	6	50%	36	83%		



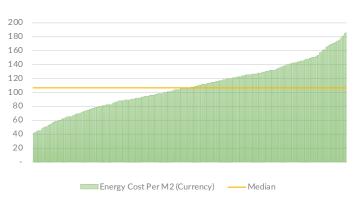
#### Energy Usage Per Square Metre (kWh)

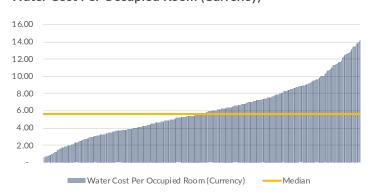


#### Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





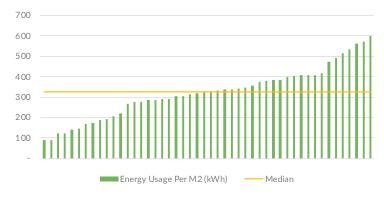
			ENE	RGY			WA	TER		GHG EMISSIONS	
CHINA	\	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR
	Count	860	855	66	95	589	608	97	113	860	856
	High	1,040	551	58	36	5,087	6,378	5	3	337	222
	Mean	227	151	50	28	2,094	1,530	3	2	95	64
ALL	Q3	277	187	54	32	2,552	1,839	4	3	115	79
	Median	208	136	50	29	1,992	1,349	3	2	89	57
	Q1	151	86	45	25	1,477	928	2	1	67	40
	Low	31	15	41	17	547	267	1	1	10	8
	Count	828	826	58	74	573	589	89	103	828	827
	High	1,040	551	58	36	4,992	6,378	5	3	337	222
	Mean	229	154	50	29	2,086	1,554	3	2	96	65
FULL SERVICE	Q3	279	188	54	32	2,552	1,854	4	3	116	80
SERVICE	Median	211	139	50	29	1,981	1,369	3	2	90	58
	Q1	154	90	45	25	1,477	942	2	1	69	41
	Low	31	31	41	17	547	361	1	1	10	8
	Count	32	29	8	21	16	19	8	10	32	29
	High	556	436	58	36	5,087	1,714	4	3	138	165
	Mean	177	75	52	27	2,353	794	3	2	67	29
LIMITED	Q3	217	93	53	32	2,519	1,033	4	3	84	30
SERVICE	Median	129	46	51	27	2,093	697	3	2	57	21
	Q1	95	32	50	22	1,792	513	2	1	45	15
	Low	50	15	45	17	950	267	2	1	14	9
	Count	181	145	18	15	96	99	23	12	181	147
	High	723	551	58	35	4,432	6,378	5	3	337	222
	Mean	197	180	51	29	2,148	2,488	3	2	84	80
RESORT	Q3	241	222	57	34	2,772	3,143	4	2	100	95
	Median	178	161	53	31	1,961	2,133	4	2	79	72
	Q1	126	103	46	26	1,519	1,472	3	1	58	48
	Low	31	34	42	19	819	588	2	1	10	8
	Count	514	538	32	63	376	395	56	76	513	537
	High	1,040	538	58	36	4,608	4,556	4	3	333	200
CITY/	Mean	245	148	49	29	2,108	1,365	3	2	101	61
URBAN	Q3	299	184	53	32	2,545	1,672	4	3	119	75
	Median	228	135	50	29	2,012	1,310	3	2	96	56
	Q1	166	85	45	26	1,507	871	2	2	73	39
	Low	66	15	41	17	648	295	1	1	29	9
	Count	133	139	9	7	93	92	7	8	134	139
	High	808	479	57	33	5,087	3,504	4	3	337	180
CONVENTION/	Mean	211	148	51	28	2,116	1,386	3	2	89	61
CONFERENCE	Q3	259	184	54	30	2,530	1,693	4	3	106	74
CENTER	Median	193	132	52	28	2,057	1,286	4	2	83	56
	Q1	144	92	51	27	1,407	984	2	2	63	41
	Low	86	36	42	21	547	267	2	1	35	17
	Count	21	23	7	9	14	14	9	13	21	23
	High	293	187	53	30	3,195	1,339	4	3	134	111
	Mean	166	92	47	24	1,537	706	3	2	78	43
SERVICED APARTMENT	Q3	194	112	49	27	1,676	865	4	2	84	50
7 0 7 11 11 11 11	Median	165	82	46	24	1,396	623	3	2	73	35
	Q1	130	65	44	20	1,171	455	2	1	61	31
	Low	88	35	42	17	581	427	2	1	50	22
									1		• 🔳

Count  1007  818  1092  1069  832  805  825  817  824  669  1066  75  75	Yes  86% 54% 86% 79% 86% 49% 82% 79% 32% 9%	782 1039 1020 803 777 797 789 797 646	Yes  86% 55% 86% 80% 86% 49% 82% 79%	Count  49  36  53  49  29  28  28	Yes 73% 33% 87% 57% 86% 39% 79%	Count  13  11  14  13  10	Yes 77% 36% 86% 85%	212 175 227 223	Yes 83% 55% 86%	591 480 645	Yes 87% 54% 88%	Count 149 122	Yes 85% 54%	Count 42 30	Yes 88% 57%
818 1092 1069 832 805 825 817 824 669 1066 75	54% 86% 79% 86% 49% 82% 79% 79% 32% 9%	782 1039 1020 803 777 797 789 797	55% 86% 80% 86% 49% 82% 79%	36 53 49 29 28 28	33% 87% 57% 86% 39%	11 14 13	36% 86% 85%	175 227	55% 86%	480	54%	122	54%		
1092 1069 832 805 825 817 824 669 1066 75	86% 79% 86% 49% 82% 79% 79% 32% 9%	1039 1020 803 777 797 789 797	86% 80% 86% 49% 82% 79%	53 49 29 28 28	87% 57% 86% 39%	14 13	86% 85%	227	86%					30	57%
1069 832 805 825 817 824 669 1066	79% 86% 49% 82% 79% 79% 32% 9%	1020 803 777 797 789 797	80% 86% 49% 82% 79%	49 29 28 28	57% 86% 39%	13	85%			645	88%	4/0			3770
832 805 825 817 824 669 1066 75	86% 49% 82% 79% 79% 32% 9%	803 777 797 789 797	86% 49% 82% 79%	29 28 28	86% 39%			223	2424		0070	160	85%	46	72%
805 825 817 824 669 1066 75	49% 82% 79% 79% 32% 9%	777 797 789 797	49% 82% 79%	28	39%	10	700/		81%	629	80%	158	82%	46	48%
825 817 824 669 1066 75	82% 79% 79% 32% 9%	797 789 797	82% 79%	28			70%	175	90%	499	86%	129	88%	19	58%
817 824 669 1066 75	79% 79% 32% 9%	789 797	79%	-	70%	8	38%	171	55%	495	47%	128	45%		
824 669 1066 75	79% 32% 9%	797		28	///0	10	100%	172	85%	496	82%	128	80%	19	42%
669 1066 75	32% 9%		79%		71%	11	91%	174	86%	500	76%	129	77%		
1066 75	9%	646		27	96%	10	70%	173	87%	493	77%	128	77%	20	85%
75			33%	23	22%	5	60%	143	36%	415	29%	105	38%		
	_	1016	9%	50	4%	14	7%	222	15%	627	7%	157	10%	46	7%
75	9%	73	10%					24	8%	36	8%	12	8%		
	15%	73	15%					25	8%	35	11%	12	42%		
79	56%	77	57%					28	79%	36	44%	12	50%		
89	62%	87	61%					30	60%	42	67%	13	62%		
74	7%	72	7%					25	16%	35	3%	11	0%		
72	1%	70	1%					24	4%	34	0%	11	0%		
72	7%								4%	34	9%	-	9%		
-	22%									34	24%	-			
				50	2%	14	7%							42	5%
				-								-		-	65%
															39%
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				-											50%
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				13	7 070	1	0070		7370	501	7770	133	7770	-	20%
-				53	28%	14	50%	227	55%	645	35%	160	55%		35%
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															87%
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												-		24	92%
	79 89 74	79         56%           89         62%           74         7%           72         1%           72         22%           1034         4%           1092         78%           1092         61%           1091         73%           1092         47%           996         81%           1002         84%           1064         78%           787         81%           826         91%           819         91%           815         76%           1043         100%           1029         76%           40         20%           1092         42%           1014         81%           1004         70%           1092         44%           957         51%           980         20%           1091         67%           979         33%           958         10%           949         59%           934         70%           639         95%           614         80%           639<	79         56%         77           89         62%         87           74         7%         72           72         1%         70           72         7%         70           72         22%         70           1034         4%         984           1092         78%         1039           1092         61%         1039           1091         73%         1038           1092         47%         1039           996         81%         950           1002         84%         956           1002         84%         956           1064         78%         1015           787         81%         762           826         91%         794           819         91%         787           815         76%         784           1043         100%         994           1029         76%         984           40         20%         40           1092         42%         1039           1014         81%         964           1004         70%         956	79         56%         77         57%           89         62%         87         61%           74         7%         72         7%           72         1%         70         1%           72         7%         70         7%           72         22%         70         23%           1034         4%         984         4%           1092         78%         1039         79%           1092         61%         1039         62%           1091         73%         1038         74%           1092         47%         1039         48%           996         81%         950         82%           1002         84%         956         86%           1004         78%         1015         79%           787         81%         762         82%           826         91%         794         90%           819         91%         787         91%           815         76%         784         76%           1043         100%         994         100%           1092         42%         1039         43% <td>79         56%         77         57%           89         62%         87         61%           74         7%         72         7%           72         1%         70         1%           72         7%         70         7%           72         22%         70         23%           1034         4%         984         4%         50           1092         78%         1039         79%         53           1091         73%         1038         74%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           996         81%         950         82%         46           1002         84%         956         86%         46           104         78%         1015</td> <td>79         56%         77         57%           89         62%         87         61%           74         7%         72         7%           72         1%         70         1%           72         7%         70         7%           72         22%         70         23%           1034         4%         984         4%         50         2%           1092         78%         1039         79%         53         53%           1092         61%         1039         62%         53         49%           1091         73%         1038         74%         53         55%           1092         47%         1039         48%         53         36%           996         81%         950         82%         46         61%           1002         84%         956         86%         46         57%           787         81%         762         82%         25         56%           826         91%         794         90%         32         97%           819         91%         787         91%         32         100%     <!--</td--><td>79         56%         77         57%           89         62%         87         61%           74         7%         72         7%           72         1%         70         1%           72         7%         70         7%           72         22%         70         23%           1034         4%         984         4%         50         2%         14           1092         78%         1039         79%         53         53%         14           1092         61%         1039         62%         53         49%         14           1091         73%         1038         74%         53         55%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53</td><td>79         56%         77         57%         89         62%         87         61%           74         7%         72         7%         7         7%         72         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         14         7%         1092         7%         98         1002         84%         984         4%         50         30         14         7%         1002         84%         950         82%</td><td>79         56%         77         57%         89         62%         87         61%         30           74         7%         72         7%         25         25           72         1%         70         1%         24         24           72         7%         70         7%         24         24           72         22%         70         23%         24         24           1034         4%         984         4%         50         2%         14         7%         213           1092         78%         1039         79%         53         53%         14         93%         227           1092         61%         1039         62%         53         49%         14         79%         227           1092         47%         1039         48%         53         35%         14         93%         227           1092         47%         1039         48%         53         36%         14         36%         227           1092         47%         1039         48%         53         36%         14         36%         227           1002         &lt;</td><td>79         56%         77         57%          28         79%           89         62%         87         61%          30         60%           74         7%         72         7%          25         16%           72         1%         70         1%          24         4%           72         7%         70         23%          24         4%           72         22%         70         23%          24         25%           1034         4%         984         4%         50         2%         14         7%         213         3%           1092         78%         1039         79%         53         53%         14         93%         227         77%           1091         73%         1038         74%         53         55%         14         79%         227         67%           1091         73%         1038         74%         53         55%         14         79%         227         67%           1092         47%         1039         48%         53         36%         14</td><td>79         56%         77         57%                             28         79%         36           89         62%         87         61%                             30         60%         42           74         7%         72         7%                   25         16%         33           72         1%         70         1%                   24         4%         34           72         7%         70         7%                   24         4%         34           72         7%         70         7%                   24         4%         34           72         22%         70         23%                             24         25%         34           1034         4%         984         4%         50         2%         14         7%         213         3%         611           1092         78%         1039         79%         53         53%         14         93%         227         77%         645           1092         47%         1039         48%         53         55%         14         79%         227         67%         645<td>  79</td><td>  79</td><td>  79</td><td>  79</td></td></td>	79         56%         77         57%           89         62%         87         61%           74         7%         72         7%           72         1%         70         1%           72         7%         70         7%           72         22%         70         23%           1034         4%         984         4%         50           1092         78%         1039         79%         53           1091         73%         1038         74%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           1092         47%         1039         48%         53           996         81%         950         82%         46           1002         84%         956         86%         46           104         78%         1015	79         56%         77         57%           89         62%         87         61%           74         7%         72         7%           72         1%         70         1%           72         7%         70         7%           72         22%         70         23%           1034         4%         984         4%         50         2%           1092         78%         1039         79%         53         53%           1092         61%         1039         62%         53         49%           1091         73%         1038         74%         53         55%           1092         47%         1039         48%         53         36%           996         81%         950         82%         46         61%           1002         84%         956         86%         46         57%           787         81%         762         82%         25         56%           826         91%         794         90%         32         97%           819         91%         787         91%         32         100% </td <td>79         56%         77         57%           89         62%         87         61%           74         7%         72         7%           72         1%         70         1%           72         7%         70         7%           72         22%         70         23%           1034         4%         984         4%         50         2%         14           1092         78%         1039         79%         53         53%         14           1092         61%         1039         62%         53         49%         14           1091         73%         1038         74%         53         55%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53</td> <td>79         56%         77         57%         89         62%         87         61%           74         7%         72         7%         7         7%         72         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         14         7%         1092         7%         98         1002         84%         984         4%         50         30         14         7%         1002         84%         950         82%</td> <td>79         56%         77         57%         89         62%         87         61%         30           74         7%         72         7%         25         25           72         1%         70         1%         24         24           72         7%         70         7%         24         24           72         22%         70         23%         24         24           1034         4%         984         4%         50         2%         14         7%         213           1092         78%         1039         79%         53         53%         14         93%         227           1092         61%         1039         62%         53         49%         14         79%         227           1092         47%         1039         48%         53         35%         14         93%         227           1092         47%         1039         48%         53         36%         14         36%         227           1092         47%         1039         48%         53         36%         14         36%         227           1002         &lt;</td> <td>79         56%         77         57%          28         79%           89         62%         87         61%          30         60%           74         7%         72         7%          25         16%           72         1%         70         1%          24         4%           72         7%         70         23%          24         4%           72         22%         70         23%          24         25%           1034         4%         984         4%         50         2%         14         7%         213         3%           1092         78%         1039         79%         53         53%         14         93%         227         77%           1091         73%         1038         74%         53         55%         14         79%         227         67%           1091         73%         1038         74%         53         55%         14         79%         227         67%           1092         47%         1039         48%         53         36%         14</td> <td>79         56%         77         57%                             28         79%         36           89         62%         87         61%                             30         60%         42           74         7%         72         7%                   25         16%         33           72         1%         70         1%                   24         4%         34           72         7%         70         7%                   24         4%         34           72         7%         70         7%                   24         4%         34           72         22%         70         23%                             24         25%         34           1034         4%         984         4%         50         2%         14         7%         213         3%         611           1092         78%         1039         79%         53         53%         14         93%         227         77%         645           1092         47%         1039         48%         53         55%         14         79%         227         67%         645<td>  79</td><td>  79</td><td>  79</td><td>  79</td></td>	79         56%         77         57%           89         62%         87         61%           74         7%         72         7%           72         1%         70         1%           72         7%         70         7%           72         22%         70         23%           1034         4%         984         4%         50         2%         14           1092         78%         1039         79%         53         53%         14           1092         61%         1039         62%         53         49%         14           1091         73%         1038         74%         53         55%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53         36%         14           1092         47%         1039         48%         53	79         56%         77         57%         89         62%         87         61%           74         7%         72         7%         7         7%         72         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         70         7%         14         7%         1092         7%         98         1002         84%         984         4%         50         30         14         7%         1002         84%         950         82%	79         56%         77         57%         89         62%         87         61%         30           74         7%         72         7%         25         25           72         1%         70         1%         24         24           72         7%         70         7%         24         24           72         22%         70         23%         24         24           1034         4%         984         4%         50         2%         14         7%         213           1092         78%         1039         79%         53         53%         14         93%         227           1092         61%         1039         62%         53         49%         14         79%         227           1092         47%         1039         48%         53         35%         14         93%         227           1092         47%         1039         48%         53         36%         14         36%         227           1092         47%         1039         48%         53         36%         14         36%         227           1002         <	79         56%         77         57%          28         79%           89         62%         87         61%          30         60%           74         7%         72         7%          25         16%           72         1%         70         1%          24         4%           72         7%         70         23%          24         4%           72         22%         70         23%          24         25%           1034         4%         984         4%         50         2%         14         7%         213         3%           1092         78%         1039         79%         53         53%         14         93%         227         77%           1091         73%         1038         74%         53         55%         14         79%         227         67%           1091         73%         1038         74%         53         55%         14         79%         227         67%           1092         47%         1039         48%         53         36%         14	79         56%         77         57%                             28         79%         36           89         62%         87         61%                             30         60%         42           74         7%         72         7%                   25         16%         33           72         1%         70         1%                   24         4%         34           72         7%         70         7%                   24         4%         34           72         7%         70         7%                   24         4%         34           72         22%         70         23%                             24         25%         34           1034         4%         984         4%         50         2%         14         7%         213         3%         611           1092         78%         1039         79%         53         53%         14         93%         227         77%         645           1092         47%         1039         48%         53         55%         14         79%         227         67%         645 <td>  79</td> <td>  79</td> <td>  79</td> <td>  79</td>	79	79	79	79

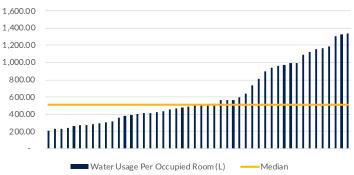
CLUNIA	А	LL	FULL S	ERVICE	LTD SI	ERVICE	AIRF	ORT	RES	ORT	CITY/	JRBAN	CON/	CONF	S. APAI	RTMENT
CHINA	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Water Filtration/Hydration Station	981	19%	936	19%	45	27%	14	21%	209	22%	575	19%	143	17%	40	15%
Single-Use Plastics Eliminated	965	87%	921	88%	44	80%	14	93%	207	88%	563	88%	142	85%	39	79%
Waste Water Treatment	985	83%	940	83%	45	82%	14	93%	207	86%	580	83%	144	80%	40	73%
Food Donation	977	20%	929	21%	48	6%	14	21%	209	18%	574	21%	142	23%	38	8%
≥ 75% Low-Flow Toilets	1092	80%	1039	81%	53	62%	14	79%	227	81%	645	80%	160	81%	46	67%
≥ 75% Efficient Faucets	1092	59%	1039	60%	53	45%	14	36%	227	56%	645	62%	160	61%	46	41%
≥ 75% Efficient Showerheads	1092	64%	1039	64%	53	49%	14	50%	227	60%	645	65%	160	69%	46	41%
Water Tracking	1033	100%	987	100%	46	100%	14	100%	213	99%	609	100%	155	100%	42	100%
Graywater Reuse	1029	19%	983	20%	46	13%	14	7%	212	25%	609	18%	153	16%	41	17%
Low-flow Pre-Rinse Kitchen Spray Valves	1024	39%	978	39%	46	37%	14	43%	212	39%	604	39%	153	39%	41	37%
Water Sub-Metering	1033	77%	988	77%	45	69%	14	71%	211	79%	609	78%	153	77%	46	57%
- Fitness Facility	744	82%	722	83%	22	36%	9	56%	149	80%	448	83%	113	84%	25	72%
- Food & Beverage Facilities	780	91%	750	91%	30	97%	9	100%	161	94%	466	90%	119	92%	25	80%
- Guestrooms	774	87%	744	87%	30	93%	10	80%	162	86%	464	86%	116	90%	22	86%
- Landscaping/grounds keeping	753	75%	725	76%	28	61%	9	78%	156	83%	452	72%	112	79%	24	54%
Rainwater Capture	1023	11%	978	12%	45	4%	14	0%	210	28%	605	7%	154	10%	40	0%
Native or Drought-Tolerant Landscaping	1006	60%	961	60%	45	42%	14	57%	213	77%	594	53%	147	63%	38	50%
Preventive Maintainance program	1032	99%	987	99%	45	98%	14	100%	214	100%	610	99%	154	99%	40	98%
Written Environmental Policy(ies)	966	72%	924	73%	42	62%	13	77%	202	73%	568	72%	142	73%	41	61%
Green Practices Shared on Website	956	46%	914	46%	42	33%	14	43%	200	47%	561	42%	140	60%	41	44%
Green Champion	990	50%	945	51%	45	29%	14	71%	205	53%	583	49%	147	49%	41	51%
Green Team	976	66%	932	67%	44	43%	14	79%	205	63%	573	66%	143	68%	41	66%
Green Team Budget	964	60%	920	61%	44	50%	13	54%	202	60%	568	60%	141	67%	40	40%
Staff Training	997	80%	952	80%	45	78%	14	71%	208	77%	585	81%	149	82%	41	78%
Employee Volunteering Opportunities During Work Hours	971	64%	925	65%	46	50%	14	50%	205	63%	571	65%	140	64%	41	66%
Staff Recognition	971	67%	927	67%	44	66%	14	43%	202	71%	572	66%	142	66%	41	66%
Comment/Suggestion Process	968	43%	924	43%	44	48%	14	36%	203	38%	570	44%	140	46%	41	44%
>50% Green Cleaning Products	961	93%	917	93%	44	82%	14	86%	201	93%	567	93%	137	90%	42	93%
Green Initiatives Communication in Guestrooms	977	93%	931	94%	46	83%	14	100%	210	95%	572	92%	140	96%	41	83%
Involve Guest to Support Green Initiatives	955	68%	910	68%	45	53%	13	85%	203	66%	560	68%	139	69%	40	60%
Reward Program for Sustainable Guests	944	46%	900	47%	44	36%	14	21%	199	46%	556	48%	137	47%	38	32%
100% non-smoking	985	88%	942	88%	43	86%	14	100%	205	89%	580	87%	145	91%	41	85%
≥ 75% of non-smoking guestrooms	1092	52%	1039	52%	53	45%	14	86%	227	46%	645	52%	160	51%	46	67%
3rd-party Certification	949	34%	906	34%	43	35%	14	36%	199	37%	559	33%	138	38%	39	18%
Carbon Footprint Measured	982	52%	938	53%	44	36%	14	71%	202	55%	581	52%	146	57%	39	28%
Local Procurement Policy	963	89%	921	88%	42	98%	14	86%	203	91%	559	92%	141	89%	46	43%
Green Roof	997	28%	952	28%	45	33%	14	29%	207	27%	590	29%	146	29%	40	23%
Vegetable Garden	997	6%	952	6%	45	2%	14	7%	207	11%	590	3%	146	8%	39	3%
-	997	2%	949	2%	45	2%	14	7%	208	3%	588	2%	146	5%	39	3%
Beekeeping																
Low-VOC or VOC-free paints in renovations/additions  HVAC Filters Routinely Checked	964 981	80% 88%	921 938	81% 89%	43	72% 65%	14	86% 100%	201	84% 87%	571 580	79% 90%	139	84%	39 39	69% 67%
<u> </u>	981	74%	894	75%	43	63%	14	92%	198	78%	552	74%	145 138	74%	-	51%
Vegetarian Menu Options  Sustainable Seafood Programment					43		12								37	
Sustainable Seafood Procurement	918	72%	874	73%	44	45%	12	92%	194	70%	540	74%	135	76%	37	32%
Evaluate suppliers in human rights areas	904	53%	861	53%	43	47%	12	58%	193	56%	534	53%	129	53%	36	33%
Procurement requirements	939	66%	896	67%	43	60%	12	75%	195	68%	550	64%	137	68%	45	78%
- Contractors	557	96%	538	96%	19	95%	8	88%	119	97%	324	96%	83	94%	23	96%
- Service Providers	567	95%	546	95%	21	95%	8	100%	127	97%	329	95%	81	93%	22	100%
- Suppliers	574	89%	551	89%	23	91%	9	89%	127	90%	330	88%	85	88%	23	96%
- Other	447	79%	432	80%	15	73%	7	86%	96	81%	263	79%	66	74%	15	100%

# HONG KONG

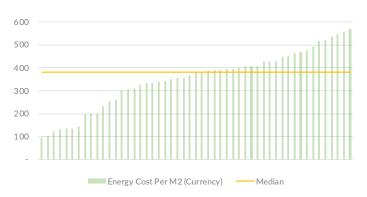
#### Energy Usage Per Square Metre (kWh)



#### Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





			ENE	RGY			WA	TER		GHG EM	IISSIONS
HONG KO	ONG	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR
	Count	48	45	51	51	48	48	48	52	49	44
	High	597	351	570	163	4,465	1,335	36	11	413	166
	Mean	323	101	351	68	2,595	625	19	4	213	59
ALL	Q3	400	111	430	89	3,297	943	25	6	256	72
	Median	323	68	380	63	2,618	509	19	4	218	44
	Q1	255	50	281	42	1,948	374	13	2	165	32
	Low	91	23	95	21	383	204	3	1	62	17
	Count	43	40	47	47	43	43	44	48	44	39
	High	597	351	570	163	4,465	1,335	36	11	413	166
	Mean	326	109	348	70	2,646	662	19	4	213	63
FULL SERVICE	Q3	392	112	428	100	3,370	969	26	6	255	73
SERVICE	Median	325	71	380	64	2,704	516	19	4	218	45
	Q1	271	52	281	44	1,916	409	13	2	180	35
	Low	91	41	95	21	383	204	3	1	62	25
	Count	5	5			5	5			5	5
	High	471	75			2,542	407			323	52
	Mean	297	39			2,160	302			212	27
LIMITED SERVICE	Q3	418	34			2,428	318			303	25
SERVICE	Median	284	34			2,281	309			206	22
	Q1	170	29			1,999	241			123	21
	Low	143	23			1,553	232			104	17
	Count	38	35	39	38	36	36	37	38	39	34
	High	572	351	570	163	4,465	1,335	36	11	413	166
	Mean	335	98	385	71	2,911	626	21	5	226	57
CITY/ URBAN	Q3	397	111	459	93	3,703	912	26	7	267	71
URDAN	Median	328	67	390	61	2,791	496	20	4	221	44
	Q1	284	48	331	45	2,284	399	16	3	190	32
	Low	91	23	144	21	1,574	232	5	1	64	17
	Count		5								5
	High		259								162
CONVENTION/	Mean		108								71
CONFERENCE	Q3		101								73
CENTER	Median		94								57
	Q1		57								42
	Low		29								21
	Count			7	7	6		6	7		
	High			302	79	1,237		7	1		
	Mean			146	34	958		4	1		
SERVICED APARTMENT	Q3			135	32	1,174		5	1		
AFARTIVIENT	Median			131	27	1,066		4	1		
	Q1			113	24	856		4	1		
	Low			95	22	383		3	1		

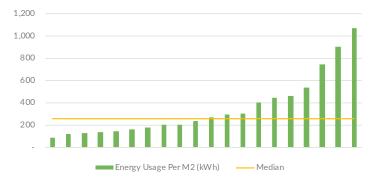
HONGKONG	А	LL	FULL S	ERVICE	LTD SE	ERVICE	CITY/U	JRBAN	CONV	/CONF	S. APAR	RTMENT
HONG KONG	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	71	90%	59	93%	12	75%	53	91%	5	80%	8	100%
Opt-Out Linen Reuse	60	32%	52	33%	8	25%	44	36%			8	13%
≥75% LED Lighting	69	83%	59	81%	10	90%	51	84%	5	60%	8	88%
Variable Frequency Drives	70	54%	59	56%	11	45%	52	58%	5	60%	8	25%
- Main Air Handling Units	34	88%	31	90%			27	85%				
- Kitchen Hoods	32	38%	30	37%			26	35%				
- Elevators	33	42%	31	45%			26	42%				
- Water Pumps	34	74%	31	71%			27	70%				
- Refrigeration Units	33	52%	32	50%			26	46%				
- Other	25	8%	24	8%			20	5%				
Renewable Power Generated?	71	10%	60	12%	11	0%	53	11%	5	0%	8	0%
- Solar PV	5	60%	5	60%								
- Heat Pump	5	100%	5	100%								
Carbon Offsets/Renewable Energy Cert. Purchase	66	9%	57	11%	9	0%	48	8%	5	20%	8	0%
≥75% Guestrooms Have Digital Thermostats	82	55%	70	56%	12	50%	63	59%	5	80%	8	0%
≥75% Guestrooms Have Ocupancy Sensors	82	33%	70	30%	12	50%	63	38%	5	0%	8	0%
≥75% Meeting Rooms Have Digital Thermostats	82	46%	70	47%	12	42%	63	48%	5	60%	8	13%
≥75% Meeting Rooms Have Occupancy Sensors	82	15%	70	11%	12	33%	63	14%	5	20%	8	0%
High Efficiency Boilers (>85% efficiency)	56	45%	47	49%	9	22%	42	48%	5	20%		
High Efficient Chillers (>0.5 kW/ton)	58	78%	49	82%	9	56%	45	82%	5	60%		
Energy Sub-Metering	68	66%	58	66%	10	70%	50	68%	5	60%	8	38%
- Fitness Facility	37	41%	33	42%			29	45%				
- Food & Beverage Facilities	40	85%	35	89%	5	60%	30	90%				
- Guestrooms	43	88%	36	89%	7	86%	32	88%				
- Public Spaces	42	71%	36	69%	6	83%	32	72%				
Energy Tracking	66	100%	57	100%	9	100%	48	100%	5	100%	8	100%
Benchmarking Energy among Peers	66	47%	57	44%	9	67%	48	48%	5	80%	8	25%
Energy Audit	8	38%	8	38%							8	38%
Electric Vehicles	65	31%	56	36%	9	0%	48	31%	5	40%	7	0%
Recycling in Common Areas	65	75%	56	75%	9	78%	47	79%	5	80%	8	50%
Recycling Bins in Guestrooms	65	32%	56	36%	9	11%	47	28%	5	60%	8	25%
≥75% Guestrooms with Soap/Shampoo Dispensers	82	28%	70	23%	12	58%	63	32%	5	0%	8	13%
Waste and Recycling Tracking	64	53%	55	55%	9	44%	46	61%	5	60%	8	13%
Soap Donation	64	53%	55	55%	9	44%	46	52%	5	60%	8	50%
≥75% F&B with Reusable Food Service Ware	82	48%	70	51%	12	25%	63	51%	5	20%	8	25%
Food Waste Composting	62	23%	54	26%	8	0%	45	24%	5	20%	7	0%
Waste Audit	64	17%	55	15%	9	33%	46	17%	5	20%	8	0%
Food Waste Tracking	56	43%	49	49%	7	0%	43	44%	5	40%	_	
Food Waste Prevention Strategies	57	53%	50	60%	7	0%	44	55%	5	40%		
- Training	28	61%	28	61%			22	64%				
- Adjusting portion size	29	86%	29	86%			23	87%				
- Redesign menu	27	85%	27	85%			21	81%				
- Change size of serving vessel	26	69%	26	69%			21	62%				
Water Filtration/Hydration Station	62	23%	53	26%	9	0%	46	22%	5	40%	6	0%
Single-Use Plastics Eliminated	62	74%	53	79%	9	44%	46	78%	5	60%	6	67%
Waste Water Treatment	63	56%	54	54%	9	67%	46	52%	5	60%	7	71%
Food Donation	59	51%	50	52%	9	44%	46	52%	5	60%	,	, 1/0
≥ 75% Low-Flow Toilets	54	80%	47	79%	7	86%	40	80%		3070	7	100%
≥ 75% Efficient Faucets	41	78%	34	79%	7	71%	26	77%			7	71%
2 7 370 LITICIETIC FAUCELS	41	70%	34	1770		/ 170	20	///0			_ /	/ 170

HONGKONG	A	LL	FULL S	ERVICE	LTD SE	ERVICE	CITY/U	JRBAN	CONV	/CONF	S. APAR	TMENT
HONG KONG	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
≥ 75% Efficient Showerheads	44	77%	37	78%	7	71%	30	73%			6	83%
Water Tracking	66	100%	57	100%	9	100%	48	100%	5	100%	8	100%
Graywater Reuse	66	2%	57	2%	9	0%	48	0%	5	20%	8	0%
Low-flow Pre-Rinse Kitchen Spray Valves	65	26%	56	29%	9	11%	48	27%	5	20%	7	14%
Water Sub-Metering	66	76%	57	77%	9	67%	48	83%	5	80%	8	25%
- Fitness Facility	41	27%	39	28%			32	22%				
- Food & Beverage Facilities	46	96%	42	98%			36	94%	4	100%		
- Guestrooms	46	91%	40	90%	6	100%	36	89%	4	100%		
- Landscaping/grounds keeping	41	51%	39	49%			32	44%				
Rainwater Capture	66	6%	57	7%	9	0%	48	6%	5	0%	8	0%
Native or Drought-Tolerant Landscaping	65	20%	56	21%	9	11%	48	15%	5	40%	7	14%
Preventive Maintainance program	65	88%	56	88%	9	89%	47	87%	5	100%	8	75%
Written Environmental Policy(ies)	63	57%	55	56%	8	63%	45	56%	5	80%	8	50%
Green Practices Shared on Website	62	50%	54	50%	8	50%	44	55%	5	20%	8	38%
Green Champion	65	49%	57	53%	8	25%	47	53%	5	20%	8	38%
Green Team	65	66%	57	70%	8	38%	47	70%	5	60%	8	50%
Green Team Budget	63	54%	55	53%	8	63%	45	56%	5	60%	8	38%
Staff Training	63	52%	55	56%	8	25%	45	56%	5	40%	8	38%
Employee Volunteering Opps During Work Hours	64	75%	56	75%	8	75%	46	74%	5	100%	8	75%
Staff Recognition	63	35%	55	38%	8	13%	45	38%	5	20%	8	13%
Comment/Suggestion Process	63	41%	55	44%	8	25%	45	49%	5	20%	8	13%
>50% Green Cleaning Products	63	52%	55	56%	8	25%	45	53%	5	20%	8	50%
Green Initiatives Communication in Guestrooms	64	70%	56	68%	8	88%	46	74%	5	80%	8	38%
Involve Guest to Support Green Initiatives	63	60%	55	60%	8	63%	45	58%	5	20%	8	88%
Reward Program for Sustainable Guests	63	19%	55	18%	8	25%	45	16%	5	0%	8	13%
100% non-smoking	64	70%	56	66%	8	100%	46	70%	5	60%	8	75%
≥ 75% of non-smoking guestrooms	82	72%	70	74%	12	58%	63	70%	5	80%	8	75%
3rd-party Certification	63	40%	55	36%	8	63%	46	41%	5	40%	7	0%
Carbon Footprint Measured	63	40%	55	38%	8	50%	45	44%	5	60%	8	0%
Local Procurement Policy	64	67%	56	66%	8	75%	46	72%	5	40%	8	50%
Green Roof	65	31%	56	29%	9	44%	47	28%	5	40%	8	38%
Vegetable Garden	66	6%	57	7%	9	0%	48	2%	5	0%	8	13%
Beekeeping	66	0%	57	0%	9	0%	48	0%	5	0%	8	0%
Low-VOC or VOC-free paints in renovations/additions	64	75%	55	75%	9	78%	46	74%	5	100%	8	50%
HVAC Filters Routinely Checked	65	88%	56	86%	9	100%	47	91%	5	80%	8	63%
Vegetarian Menu Options	59	75%	53	77%	6	50%	43	77%	5	100%	6	17%
Sustainable Seafood Procurement	59	46%	53	51%	6	0%	43	49%	5	60%	6	0%
Evaluate suppliers in human rights areas	57	42%	52	46%	5	0%	40	38%			8	50%
Procurement requirements	63	48%	55	49%	8	38%	45	49%	5	60%	8	25%
- Contractors	24	88%	23	87%			17	88%				
- Service Providers	24	92%	23	91%			17	94%				
- Suppliers	25	92%	24	92%			18	94%				
- Other	16	63%	15	60%			10	40%				

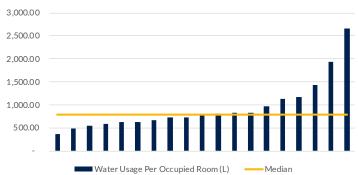
# **INDIA**



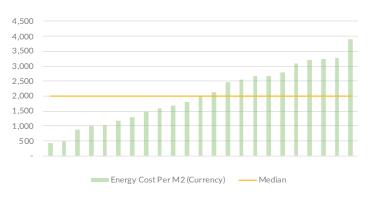
#### Energy Usage Per Square Metre (kWh)

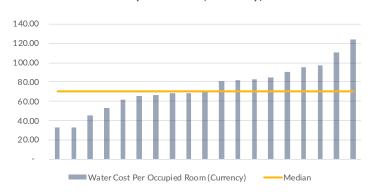


#### Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**



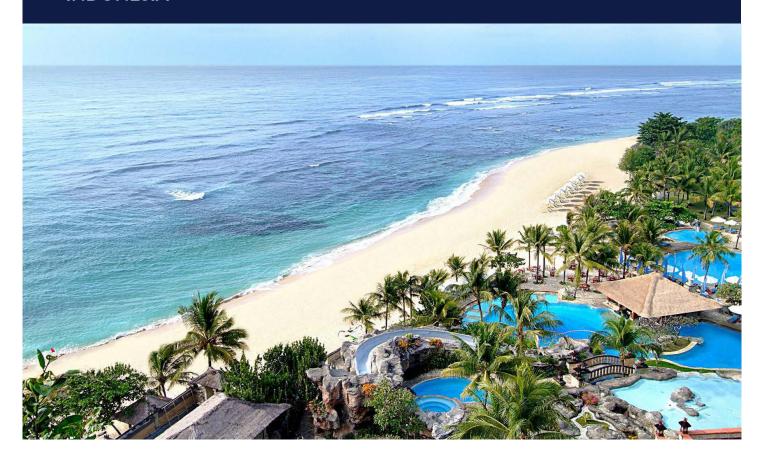


			ENE	RGY			WA	TER		GHG EMISSIONS		
INDIA	<b>.</b>	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	
	Count	18	16	20	19	15	15	16	14	18	17	
	High	1,067	200	3,908	1,705	4,041	1,440	334	125	517	164	
	Mean	354	107	2,081	955	1,668	761	147	73	191	69	
ALL	Q3	452	132	2,710	1,214	1,902	833	189	84	231	82	
	Median	234	96	2,056	911	1,800	733	157	75	151	55	
	Q1	151	84	1,254	668	1,208	613	74	63	97	50	
	Low	86	49	438	426	257	361	10	33	41	27	
	Count	13	12	15	14	10	11	12	11	13	13	
	High	1,067	200	3,908	1,705	2,445	2,658	317	125	517	164	
	Mean	384	113	1,847	990	1,385	965	126	67	202	75	
FULL SERVICE	Q3	537	135	2,515	1,347	1,872	1,064	182	83	282	88	
SERVICE	Median	198	114	1,694	892	1,623	798	98	67	141	73	
	Q1	137	86	1,101	670	693	593	74	49	86	49	
	Low	86	49	438	426	257	361	10	33	41	27	
	Count	7	5	8	9	8	8	9	8	7	5	
	High	456	144	3,265	1,307	4,041	1,925	334	110	247	76	
	Mean	288	98	2,392	933	2,180	915	193	84	157	56	
LIMITED SERVICE	Q3	349	94	3,222	1,039	2,912	910	290	96	173	53	
SERVICE	Median	268	86	2,930	936	2,171	767	175	83	161	51	
	Q1	219	84	1,669	760	1,482	656	155	70	123	51	
	Low	159	83	484	667	259	597	25	66	97	50	
	Count	15	10	16	17	12	13	15	14	15	11	
	High	1,067	132	3,908	1,705	4,041	2,658	334	125	418	164	
	Mean	292	92	2,212	990	1,793	994	155	76	145	65	
CITY/ URBAN	Q3	349	97	3,115	1,266	2,075	1,129	196	89	172	67	
ONDAIN	Median	198	88	2,056	947	1,713	802	159	75	119	51	
	Q1	143	83	1,429	692	1,214	733	90	66	92	49	
	Low	86	64	886	442	518	361	10	33	41	33	

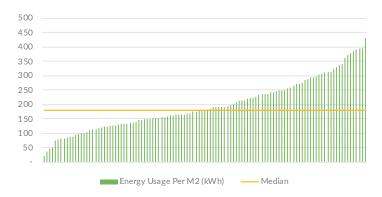
INIDIA	А	LL	FULL S	ERVICE	LTD SE	RVICE	CITY/U	JRBAN	S.APAR	TMENT
INDIA	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	28	89%	18	83%	10	100%	19	89%	5	80%
Opt-Out Linen Reuse	25	72%	15	53%	10	100%	17	76%		
≥ 75% LED Lighting	30	80%	20	70%	10	100%	21	76%	5	80%
Variable Frequency Drives	30	87%	20	90%	10	80%	21	90%	5	60%
- Main Air Handling Units	25	72%	17	82%	8	50%	19	74%		
- Kitchen Hoods	25	40%	17	35%	8	50%	19	42%		
- Elevators	26	81%	18	83%	8	75%	19	79%		
- Water Pumps	26	92%	18	89%	8	100%	19	95%		
- Refrigeration Units	25	20%	17	24%	8	13%	19	21%		
- Other	23	39%	15	40%	8	38%	17	35%		
Renewable Power Generated?	30	23%	19	16%	11	36%	20	20%	5	40%
- Wind Power	63	94%	43	95%	20	90%	57	96%		
- Solar PV	64	97%	44	98%	20	95%	57	100%		
- Heat Pump	63	95%	43	98%	20	90%	57	96%		
- Solar Thermal	63	95%	43	95%	20	95%	57	96%		
- Geothermal	63	94%	43	95%	20	90%	57	96%		
- Hydroelectric	63	94%	43	95%	20	90%	57	96%		
- Cogeneration	63	94%	43	95%	20	90%	57	96%		
- Other	63	95%	43	98%	20	90%	57	98%		
Carbon Offsets or Renewable Energy Certificate Purchase	28	21%	17	24%	11	18%	18	22%	5	20%
≥ 75% Guestrooms Have Digital Thermostats	30	87%	19	79%	11	100%	20	90%	5	60%
≥ 75% Guestrooms Have Ocupancy Sensors	30	53%	19	47%	11	64%	20	50%	5	60%
<u> </u>	30	63%		53%	11	82%			5	
≥ 75% Meeting Rooms Have Digital Thermostats	-		19		-		20	65%		40%
≥ 75% Meeting Rooms Have Occupancy Sensors	30	37%	19	37%	11	36%	20	35%	5	40%
High Efficiency Boilers (>85% efficiency)	27	74%	17	76%	10	70%	17	71%	5	60%
High Efficient Chillers (>0.5 kW/ton)	28	89%	17	88%	11	91%	18	94%	5	60%
Energy Sub-metering	29	62%	18	72%	11	45%	19	68%	5	40%
- Fitness Facility	17	65%	13	77%		000/	12	67%		
- Food & Beverage Facilities	18	78%	13	77%	5	80%	13	77%		
- Guestrooms	18	100%	13	100%	5	100%	13	100%		
- Public Spaces	18	94%	13	100%	5	80%	13	92%		
Energy Tracking	28	93%	17	88%	11	100%	18	100%	5	60%
Benchmarking Energy among Peers	27	63%	17	71%	10	50%	17	65%	5	60%
Energy Audit	28	57%	17	59%	11	55%	18	78%	5	20%
Electric Vehicles	26	31%	17	41%	9	11%	16	38%	5	20%
Recycling in Common Areas	29	79%	18	89%	11	64%	19	84%	5	80%
Recycling Bins in Guestrooms	27	56%	17	53%	10	60%	17	71%	5	20%
≥ 75% G.rooms with Soap/Shampoo Dispensers	26	27%	16	13%	10	50%	17	24%		
Waste and Recycling Tracking	27	78%	17	88%	10	60%	17	82%	5	80%
Soap Donation	26	58%	16	63%	10	50%	17	65%		
≥ 75% F&B with Reusable Food Service Ware	24	83%	14	86%	10	80%	17	94%		
Food Waste Composting	27	74%	17	76%	10	70%	18	78%		
Waste Audit	27	37%	17	35%	10	40%	17	35%	5	40%
Food Waste Tracking	27	78%	18	72%	9	89%	17	88%	5	40%
Food Waste Prevention Strategies	22	45%	14	57%	8	25%	14	50%		
- Training	62	100%	42	100%	20	100%	55	100%		
- Adjusting portion size	62	98%	42	100%	20	95%	55	98%		
- Redesign menu	62	98%	42	98%	20	100%	55	98%		
- Change size of serving vessel	62	100%	42	100%	20	100%	55	100%		

INIDIA	А	LL	FULL S	ERVICE	LTD SE	RVICE	CITY/U	JRBAN	S.APAR	TMENT
INDIA	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Water Filtration/Hydration Station	25	56%	16	69%	9	33%	17	65%		
Single-Use Plastics Eliminated	23	83%	15	80%	8	88%	15	100%		
Waste Water Treatment	26	96%	17	94%	9	100%	17	100%		
Food Donation										
≥ 75% Low-Flow Toilets	26	92%	16	88%	10	100%	18	100%		
≥ 75% Efficient Faucets	25	92%	15	87%	10	100%	17	94%		
≥ 75% Efficient Showerheads	24	71%	14	57%	10	90%	16	81%		
Water Tracking	27	100%	17	100%	10	100%	18	100%		
Graywater Reuse	27	70%	17	71%	10	70%	18	78%		
Low-flow Pre-Rinse Kitchen Spray Valves	27	81%	17	88%	10	70%	18	94%		
Water Sub-Metering	26	38%	17	29%	9	56%	18	56%		
Fitness Facility	8	38%	5	40%			8	38%		
Food & Beverage Facilities	8	63%	5	60%			8	63%		
Guestrooms	10	70%	5	80%	5	60%	10	70%		
Landscaping/grounds keeping	9	89%	5	100%			9	89%		
Rainwater Capture	26	58%	17	59%	9	56%	17	76%		
Native or Drought-Tolerant Landscaping	25	36%	17	29%	8	50%	16	31%		
Preventive Maintainance program	28	93%	18	89%	10	100%	18	100%	5	60%
Written Environmental Policy(ies)	25	72%	16	69%	9	78%	16	69%		
Green Practices Shared on Website	25	28%	16	25%	9	33%	16	38%		
Green Champion	26	65%	17	59%	9	78%	17	71%		
Green Team	26	58%	17	53%	9	67%	17	59%		
Green Team Budget	26	50%	17	53%	9	44%	17	53%		
Staff Training	26	69%	17	65%	9	78%	17	76%		
Employee Volunteering Opportunities During Work Hours	26	92%	17	88%	9	100%	17	94%		
Staff Recognition	26	81%	17	71%	9	100%	17	76%		
Comment/Suggestion Process	26	69%	17	71%	9	67%	17	65%		
>50% Green Cleaning Products	23	74%	15	73%	8	75%	15	87%		
Green Initiatives Communication in Guestrooms	25	60%	16	56%	9	67%	16	56%		
Involve Guest to Support Green Initiatives	23	65%	15	67%	8	63%	15	87%		
Reward Program for Sustainable Guests	23	35%	15	33%	8	38%	15	47%		
100% non-smoking	24	25%	15	27%	9	22%	16	31%		
≥ 75% of non-smoking guestrooms	25	48%	16	38%	9	67%	17	47%		
3rd-party Certification	25	24%	16	19%	9	33%	17	29%		
Carbon Footprint Measured	25	60%	16	56%	9	67%	17	71%		
Local Procurement Policy	25	80%	15	80%	10	80%	17	88%		
Green Roof	29	38%	18	28%	11	55%	20	35%		
Vegetable Garden	29	10%	18	6%	11	18%	20	15%		
Beekeeping	27	7%	17	12%	10	0%	19	11%		
Low-VOC or VOC-free paints in renovations/additions	28	57%	18	56%	10	60%	19	53%		
·			1		-		-			
HVAC Filters Routinely Checked	28	89%	18	89%	10	90%	19	84% 89%		
Vegetarian Menu Options Sustainable Seafood Progurament	26	85%	17	82%	-	89% 57%	18			
Sustainable Seafood Procurement  Figure to suppliers in human rights areas	-	60%	13	62% 43%	7	57%	13	69% 46%		
Evaluate suppliers in human rights areas	19	42%	14		5	40%	13			
Procurement requirements	23	57%	15	73%	8	25%	16	63%		
- Contractors	61	95%	41	95%	20	95%	55	95%		
- Service Providers	12	50%	10	60%	00	0501	10	40%		
- Suppliers	61	97%	41	98%	20	95%	55	96%		
- Other	10	30%	9	33%			9	22%		

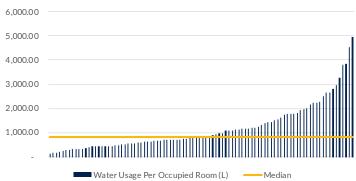
# **INDONESIA**



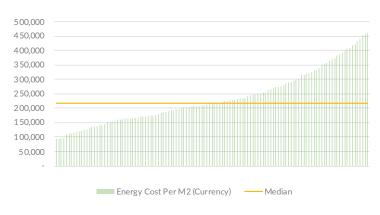
#### Energy Usage Per Square Metre (kWh)

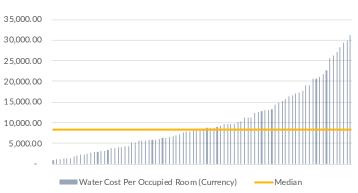


#### Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





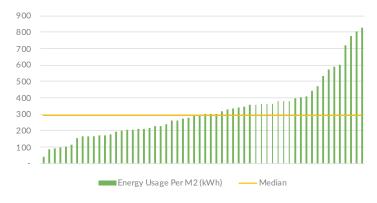
			ENE	RGY			WA	TER		GHG EM	IISSIONS
INDONES	SIA	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR
	Count	113	97	112	109	109	94	113	88	116	97
-	High	429	453	385,409	370,057	7,954	4,958	56,012	31,104	280	326
-	Mean	198	124	216,566	114,278	2,696	1,186	22,028	10,371	137	82
ALL	Q3	250	143	263,170	145,066	3,535	1,553	33,111	14,466	173	97
	Median	181	96	207,055	94,406	2,154	820	18,726	8,392	128	66
	Q1	132	61	163,953	60,129	1,453	525	10,582	4,336	96	40
_	Low	20	15	93,780	11,311	193	137	1,175	1,024	15	11
	Count	97	83	94	93	95	78	95	74	100	83
	High	429	453	385,409	370,057	7,954	4,958	56,012	31,104	280	326
	Mean	205	137	217,912	123,665	2,779	1,324	22,511	11,140	142	90
FULL	Q3	272	157	268,199	154,176	3,618	1,787	34,696	15,555	183	103
SERVICE	Median	191	107	207,055	100,617	2,259	1,024	18,782	9,078	135	71
	Q1	135	67	164,401	70,269	1,409	641	10,758	5,781	98	49
	Low	20	28	93,780	15,439	193	208	1,432	1,024	15	20
	Count	16	14	18	16	14	16	18	14	16	14
	High	243	75	338,085	136,080	4,124	1,122	54,404	20,681	171	53
	Mean	156	46	209,542	59,719	2,132	518	19,477	6,309	111	32
LIMITED	Q3	183	60	244,793	82,076	2,913	697	30,113	7,066	130	42
SERVICE	Median	159	47	204,455	59,331	1,978	487	16,854	4,819	119	33
	Q1	121	25	166,028	23,970	1,493	299	6,958	2,950	87	19
	Low	84	15	97,431	11,311	242	137	1,175	1,362	60	11
	Count	46	39	36	37	43	32	33	30	46	39
_	High	394	453	370,558	370,057	7,296	4,958	46,460	31,104	274	326
_	Mean	186	143	227,293	129,586	3,327	1,615	22,211	11,182	126	98
RESORT	Q3	241	172	276,212	173,787	5,158	2,050	35,272	16,206	150	107
RESORT	Median	187	112	222,206	118,687	2,779	1,222	19,482	9,260	129	79
_	Q1	123	64	186,887	65,336	1,817	739	11,175	4,564	86	48
_	Low	20	34	97,812	15,439	193	208	1,873	1,140	15	26
	Count	38	31	39	36	37	34	48	31	40	31
_	High	429	305	356,351	361,330	6,154	3,857	56,012	29,851	280	220
_	Mean	218	107	207,937	118,355	2,548	1,146	23,796	11,355	153	70
CITY/	Q3	291	131		156,126	3,454	1,573	36,633	17,380	196	80
URBAN	Median	186	90	206,114	93,752	2,579	862	21,653	9,008	131	57
	Q1	142	58	160,977	66,095	1,505	456	11,190	5,396	99	41
	Low	87	18	113,988	15,985	271	166	1,175	1,172	66	14
	Count	10	10	113,766	12	10	100	9	8	10	10
	High	310	189	381,475	228,427	3,414	1,445	43,497	14,340	189	86
	Mean	201	93	227,948	100,473	1,795	647	19,302	8,322	131	56
CONVENTION/	Q3	262	123	298,376	117,615	2,778	820	30,816	11,440	159	73
CONFERENCE CENTER	Median	195	74	210,475	94,883	1,842	633	19,124	8,778	132	50
	Q1	154	58	153,727	75,698	694	348	5,870	5,256	106	41
	Low	82	39	94,659	11,311	225	137	1,618	1,362	53	26
	Count	9	5	15	11,311	11	9	13	8	9	5
	High	313	312	372,651	88,206	7,954	1,836	54,404	7,157	224	167
	Mean	155	92	196,894	48,129	2,244	645	19,555	4,668	111	54
BED & BREAKFAST	Q3	158	68	220,946	66,655	1,928	726	22,321	6,601	120	46
(B&B)	Median	147	46	173,460	36,688	1,586	515	17,988	4,925	100	31
	Q1	117	19	161,317	30,430	1,327	339	12,500	3,059	90	15
	Low	100	15	97,431	19,895	334	244	3,661	1,348	71	11
	Count	6	8	77,431	8	JJ- <del>1</del>	Z <del>71</del>	6	6	71	8
	High	250	402	315,345	210,901			37,269	17,242	257	152
	Mean	164	124	186,464	118,391			17,948	9,949	140	73
SERVICED											
APARTMENT	Q3 Modian	183	120	210,885	127,004			16,762	11,811	155	84
	Median	151	88	170,727	101,008			15,267	9,146	114	65 47
	Q1	132	61	151,811	97,475			13,463	6,567 5,755	105	
	Low	114	50	93,780	75,593			9,765	5,755	88	36

INDONESIA	A	LL	FULLS	SERVICE	LTD SE	RVICE	RES	ORT	CITY/	JRBAN	CON	/CONF	Ba	λB	S. APAI	RTMENT
INDONESIA	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	157	76%	134	78%	23	65%	56	79%	54	78%	13	62%	19	68%	10	80%
Opt-Out Linen Reuse	155	61%	132	61%	23	57%	56	64%	54	57%	13	92%	19	47%	8	25%
≥ 75% LED Lighting	156	79%	133	79%	23	83%	56	80%	54	80%	13	69%	18	72%	10	90%
Variable Frequency Drives	157	51%	134	54%	23	30%	56	66%	54	46%	13	46%	19	26%	10	40%
- Main Air Handling Units	152	49%	129	53%	23	26%	56	52%	54	44%	13	54%	19	42%	5	60%
- Kitchen Hoods	151	40%	128	46%	23	9%	56	43%	54	35%	13	69%	19	21%		
- Elevators	152	73%	129	71%	23	83%	56	63%	54	80%	13	100%	19	68%	5	80%
- Water Pumps	151	71%	128	71%	23	70%	56	71%	54	70%	13	85%	19	58%		
- Refrigeration Units	152	50%	129	53%	23	30%	56	54%	54	35%	13	77%	19	47%	5	80%
Renewable Power Generated?	156	18%	133	18%	23	17%	56	23%	54	7%	13	15%	19	26%	9	33%
- Wind Power	150	1%	127	1%	23	0%	56	0%	54	0%	13	0%	19	0%		
- Solar PV	150	0%	127	0%	23	0%	56	0%	54	0%	13	0%	19	0%		
- Heat Pump	151	1%	128	1%	23	0%	56	0%	54	0%	13	0%	19	0%		
- Solar Thermal	151	1%	128	1%	23	0%	56	0%	54	0%	13	0%	19	0%		
- Geothermal	150	0%	127	0%	23	0%	56	0%	54	0%	13	0%	19	0%		
- Hydroelectric	150	0%	127	0%	23	0%	56	0%	54	0%	13	0%	19	0%		
- Cogeneration	150	0%	127	0%	23	0%	56	0%	54	0%	13	0%	19	0%	1	
- Other	150	0%	127	0%	23	0%	56	0%	54	0%	13	0%	19	0%		
Carbon Offsets or Renewable Energy Certificate Purchase	155	3%	132	4%	23	0%	56	4%	54	2%	13	0%	19	5%	8	13%
≥ 75% Guestrooms Have Digital Thermostats	157	57%	134	60%	23	43%	56	63%	54	59%	13	69%	19	32%	10	70%
≥ 75% Guestrooms Have Ocupancy Sensors	156	51%	133	53%	23	39%	56	59%	54	61%	13	46%	19	32%	9	11%
≥ 75% Meeting Rooms Have Digital Thermostats	157	54%	134	56%	23	43%	56	55%	54	54%	13	77%	19	32%	10	70%
≥ 75% Meeting Rooms Have Occupancy Sensors	156	47%	133	49%	23	35%	56	54%	54	54%	13	54%	19	26%	9	0%
High Efficiency Boilers (>85% efficiency)	154	34%	131	35%	23	30%	56	41%	54	24%	13	31%	19	53%	7	29%
High Efficient Chillers (>0.5 kW/ton)	154	41%	131	44%	23	26%	56	48%	54	31%	13	46%	19	47%	7	29%
, , , , , , , , , , , , , , , , , , ,	157	41%	134	5%	23	0%	56	0%	54	0%	13	0%	19	0%	10	70%
Energy Sub-metering - Fitness Facility	152	26%	129	30%	23	4%	56	25%	54	24%	13	38%	19	26%	5	60%
<u> </u>	153	46%	130	48%	23	39%		46%	54	52%		54%	19			
- Food & Beverage Facilities	156						56		54		13		-	26%	6	67%
- Guestrooms		35%	133	35%	23	30%	56	41%	"	20%	13	54%	19	26%		78%
- Public Spaces	154	27%	131	28%	23	22%	56	27%	54	24%	13	38%	19	16%	7	71%
Energy Tracking	157	94%	134	96%	23	87%	56	93%	54	96%	13	100%	19	84%	10	100%
Benchmarking Energy among Peers	157	59%	134	58%	23	61%	56	61%	54	57%	13	69%	19	53%	10	50%
Energy Audit	156	42%	133	44%	23	30%	56	45%	54	39%	13	38%	19	53%	9	33%
Electric Vehicles	157	14%	134	16%	23	4%	56	34%	54	2%	13	15%	19	0%	10	0%
Recycling in Common Areas	157	54%	134	54%	23	52%	56	70%	54	39%	13	54%	19	42%	10	70%
Recycling Bins in Guestrooms	157	46%	134	49%	23	30%	56	63%	54	48%	13	15%	19	32%	10	30%
≥ 75% Guestrooms with Bulk Soap/Shampoo Dispensers	157	41%	134	43%	23	30%	56	48%	54	44%	13	46%	19	32%	10	10%
Waste and Recycling Tracking	157	54%	134	55%	23	43%	56	68%	54	61%	13	38%	19	11%	10	30%
Soap Donation	157	36%	134	37%	23	30%	56	66%	54	22%	13	23%	19	0%	10	20%
≥ 75% F&B with Reusable Food Service Ware	156	73%	133	76%	23	57%	56	79%	54	72%	13	85%	19	58%	9	56%
Food Waste Composting	156	33%	133	37%	23	9%	56	55%	54	19%	13	15%	19	16%	9	33%
Waste Audit	157	43%	134	46%	23	26%	56	54%	54	35%	13	46%	19	42%	10	20%
Food Waste Tracking	156	53%	133	56%	23	35%	56	63%	54	46%	13	46%	19	53%	9	44%
Food Waste Prevention Strategies	149	54%	126	60%	23	26%	56	61%	54	48%	13	46%	19	58%		
- Training	149	39%	126	42%	23	22%	56	45%	54	31%	13	31%	19	47%		
- Adjusting portion size	149	46%	126	50%	23	22%	56	54%	54	37%	13	38%	19	53%		
- Redesign menu	149	45%	126	50%	23	17%	56	55%	54	35%	13	38%	19	47%		
- Change size of serving vessel	149	37%	126	40%	23	22%	56	48%	54	30%	13	15%	19	37%		
Water Filtration/Hydration Station	154	26%	131	25%	23	30%	56	38%	54	19%	13	8%	19	21%	7	29%
Single-Use Plastics Eliminated	155	82%	132	82%	23	83%	56	84%	54	85%	13	85%	19	68%	8	63%
Food Donation	156	42%	133	45%	23	22%	56	64%	54	33%	13	15%	19	32%	9	11%
≥ 75% Low-Flow Toilets	157	65%	134	66%	23	61%	56	57%	54	72%	13	62%	19	68%	10	60%

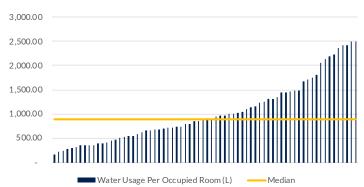
INDONECIA	А	LL	FULL S	ERVICE	LTD SE	RVICE	RES	ORT	CITY/U	JRBAN	CON	/CONF	В	&B	S. APAF	RTMENT
INDONESIA	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
≥ 75% Efficient Faucets	156	60%	133	62%	23	48%	56	61%	54	61%	13	46%	19	53%	9	78%
≥ 75% Efficient Showerheads	157	53%	134	55%	23	39%	56	64%	54	41%	13	38%	19	53%	10	80%
Water Tracking	157	94%	134	96%	23	83%	56	95%	54	94%	13	85%	19	95%	10	100%
Graywater Reuse	157	32%	134	34%	23	26%	56	50%	54	24%	13	31%	19	11%	10	20%
Low-flow Pre-Rinse Kitchen Spray Valves	157	69%	134	73%	23	43%	56	79%	54	63%	13	62%	19	58%	10	80%
Water Sub-Metering	157	57%	134	58%	23	48%	56	64%	54	59%	13	38%	19	26%	10	90%
- Fitness Facility	7	100%	7	100%											7	100%
- Food & Beverage Facilities	7	100%	7	100%											7	100%
- Guestrooms	8	75%	8	75%											8	75%
- Landscaping/grounds keeping	7	71%	7	71%											7	71%
Rainwater Capture	157	22%	134	25%	23	9%	56	27%	54	20%	13	31%	19	11%	10	10%
Native or Drought-Tolerant Landscaping	156	30%	133	30%	23	30%	56	39%	54	22%	13	31%	19	21%	9	44%
Preventive Maintainance program	157	95%	134	96%	23	91%	56	93%	54	96%	13	100%	19	95%	10	90%
Written Environmental Policy(ies)	157	80%	134	81%	23	70%	56	88%	54	67%	13	85%	19	79%	10	100%
Green Practices Shared on Website	157	57%	134	59%	23	48%	56	66%	54	50%	13	62%	19	47%	10	50%
Green Champion	157	68%	134	69%	23	65%	56	77%	54	65%	13	77%	19	58%	10	50%
Green Team	157	68%	134	69%	23	61%	56	73%	54	67%	13	69%	19	68%	10	50%
Green Team Budget	156	47%	133	48%	23	39%	56	64%	54	33%	13	23%	19	58%	9	33%
Staff Training	157	71%	134	72%	23	65%	56	79%	54	67%	13	77%	19	68%	10	60%
Employee Volunteering Opportunities During Work Hours	156	83%	133	84%	23	78%	56	89%	54	81%	13	92%	19	79%	9	56%
Staff Recognition	156	54%	133	55%	23	52%	56	68%	54	41%	13	62%	19	53%	9	44%
Comment/Suggestion Process	156	54%	133	58%	23	35%	56	75%	54	46%	13	38%	19	32%	9	67%
>50% Green Cleaning Products	157	73%	134	74%	23	65%	56	82%	54	65%	13	69%	19	68%	10	70%
Green Initiatives Communication in Guestrooms	157	65%	134	69%	23	43%	56	73%	54	59%	13	54%	19	74%	10	60%
Involve Guest to Support Green Initiatives	156	59%	133	60%	23	52%	56	64%	54	63%	13	62%	19	53%	9	33%
Reward Program for Sustainable Guests	156	15%	133	16%	23	13%	56	25%	54	7%	13	31%	19	5%	9	11%
100% non-smoking	157	45%	134	44%	23	48%	56	50%	54	41%	13	46%	19	47%	10	30%
≥ 75% of non-smoking guestrooms	156	69%	133	68%	23	70%	56	73%	54	65%	13	62%	19	68%	9	67%
3rd-party Certification	155	41%	132	44%	23	26%	56	57%	54	19%	13	46%	19	58%	8	13%
Carbon Footprint Measured	156	44%	133	45%	23	39%	56	59%	54	37%	13	46%	19	32%	9	33%
Local Procurement Policy	157	75%	134	80%	23	48%	56	84%	54	65%	13	85%	19	63%	10	80%
Green Roof	156	40%	133	42%	23	30%	56	45%	54	39%	13	54%	19	21%	9	22%
Vegetable Garden	156	13%	133	14%	23	9%	56	16%	54	11%	13	8%	19	16%	9	0%
Beekeeping	156	4%	133	4%	23	4%	56	11%	54	0%	13	0%	19	0%	9	0%
Low-VOC or VOC-free paints in renovations/additions	155	28%	132	31%	23	9%	56	34%	54	20%	13	31%	19	16%	8	50%
HVAC Filters Routinely Checked	157	83%	134	85%	23	74%	56	88%	54	85%	13	77%	19	74%	10	80%
Vegetarian Menu Options	154	69%	131	74%	23	43%	56	80%	54	63%	13	54%	19	58%	7	71%
Sustainable Seafood Procurement	153	48%	130	53%	23	17%	56	52%	54	41%	13	62%	19	42%	6	67%
Evaluate suppliers in human rights areas	156	53%	133	59%	23	22%	56	70%	54	43%	13	38%	19	47%	9	44%
Procurement requirements	157	55%	134	59%	23	35%	56	66%	54	52%	13	46%	19	32%	10	70%
- Contractors	155	46%	132	47%	23	39%	56	59%	54	39%	13	38%	19	26%	8	75%
- Service Providers	154	45%	131	47%	23	39%	56	54%	54	43%	13	46%	19	26%	7	71%
- Suppliers	155	57%	132	61%	23	35%	56	66%	54	52%	13	46%	19	32%	8	88%
- Other	151	34%	128	37%	23	22%	56	45%	54	26%	13	31%	19	32%		



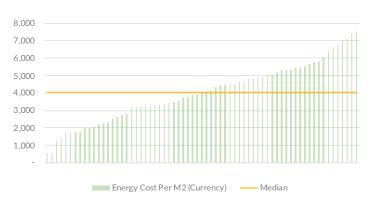
#### Energy Usage Per Square Metre (kWh)

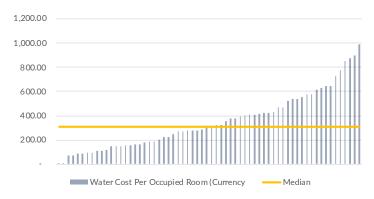


#### Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





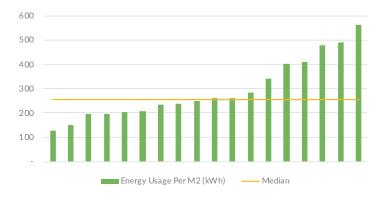
			ENE	RGY			WA	TER		GHG EM	IISSIONS
JAPAN	I	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR
	Count	58	52	67	72	60	70	67	64	57	55
	High	828	299	7,533	3,284	5,667	2,503	2,770	985	251	159
	Mean	320	119	4,021	1,298	2,698	1,037	1,220	353	118	50
ALL	Q3	380	161	5,235	1,871	3,252	1,421	1,675	483	144	65
	Median	294	106	4,046	1,228	2,642	897	1,069	307	119	42
	Q1	200	68	2,748	525	2,019	538	612	158	74	28
	Low	44	11	532	1	295	166	0	0	17	5
	Count	47	44	54	55	52	56	57	51	46	47
	High	828	299	7,533	3,284	5,667	2,503	2,770	985	251	159
	Mean	351	136	4,168	1,585	2,781	1,187	1,292	410	127	57
FULL SERVICE	Q3	400	168	5,347	2,069	3,380	1,481	1,820	546	152	72
JERVICE	Median	335	117	4,244	1,461	2,785	1,007	1,222	396	125	45
	Q1	221	86	2,883	1,105	2,124	707	628	259	99	33
	Low	44	50	532	390	295	359	1	1	17	23
	Count	11	8	13	17	8	14	10	13	11	8
	High	328	39	5,431	599	3,137	1,347	1,597	327	128	13
	Mean	186	24	3,411	367	2,162	436	807	129	79	9
LIMITED SERVICE	Q3	204	29	4,497	491	2,374	399	997	160	102	12
SERVICE	Median	171	24	3,336	394	2,082	355	649	108	71	9
	Q1	159	18	2,623	283	1,759	287	573	89	59	7
	Low	97	11	1,729	1	1,720	166	0	0	38	5
	Count	6	5	7	5	7	6	7	5	6	5
	High	601	221	7,433	3,284	3,326	2,425	2,553	618	198	93
	Mean	357	152	3,945	2,037	2,588	1,596	1,119	434	120	55
RESORT	Q3	454	173	5,424	2,835	3,098	2,144	1,520	551	172	68
	Median	364	132	3,765	2,270	3,035	1,473	1,247	468	130	46
	Q1	304	128	2,497	1,408	2,470	1,142	443	427	74	38
	Low	44	107	578	390	617	804	109	107	17	27
	Count	37	41	41	48	38	47	42	41	36	44
	High	828	299	7,098	3,244	5,667	2,503	2,770	985	251	159
	Mean	365	116	4,236	1,362	2,924	1,105	1,306	382	134	51
CITY/ URBAN	Q3	382	161	5,371	1,880	3,566	1,448	1,896	534	152	64
ORDAN	Median	335	103	4,522	1,428	2,785	952	1,249	314	125	44
	Q1	225	64	3,227	598	2,234	671	802	198	104	29
	Low	164	11	532	1	295	166	0	0	67	5
	Count	11		14	14	11	12	14	14	11	
	High	264		7,533	1,563	3,137	737	2,485	468	138	
	Mean	152		3,383	795	1,920	427	845	194	66	
SERVICED APARTMENT	Q3	186		3,951	1,162	2,123	514	1,032	247	72	
ALANIMENT	Median	155		3,303	570	1,869	396	603	145	58	
	Q1	100		2,225	488	1,642	349	519	99	42	
	Low	86		1,729	394	1,237	224	263	69	38	

LADAN	А	LL	FULL S	ERVICE	LTD SE	RVICE	RES	ORT	CITY/L	JRBAN	S. APAR	RTMENT
JAPAN	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	84	69%	64	78%	20	40%	7	57%	56	66%	14	79%
Opt-Out Linen Reuse	71	37%	60	43%	11	0%	7	29%	47	43%	10	20%
≥75% LED Lighting	85	66%	65	62%	20	80%	7	71%	57	67%	14	79%
Variable Frequency Drives	84	54%	65	65%	19	16%	7	100%	56	59%	14	14%
- Main Air Handling Units	45	96%	41	95%			7	100%	32	100%		
- Kitchen Hoods	42	48%	39	46%			6	17%	31	55%		
- Elevators	43	67%	40	65%			6	67%	32	69%		
- Water Pumps	42	74%	39	72%			6	83%	31	77%		
- Refrigeration Units	43	58%	40	58%			6	83%	32	53%		
- Other	37	41%	36	42%			6	50%	26	46%		
Renewable Power Generated?	86	12%	66	6%	20	30%	7	29%	58	12%	14	0%
- Wind Power	10	0%			6	0%			7	0%		
- Solar PV	10	20%			6	17%			7	0%		
- Heat Pump	8	50%							6	67%		
- Solar Thermal	10	0%			6	0%			7	0%		
- Geothermal	10	0%			6	0%			7	0%		
- Hydroelectric	10	0%			6	0%			7	0%		
- Cogeneration	10	30%			6	0%			7	14%		
- Other	10	10%			6	0%			7	14%		
Carbon Offsets/Renewable Energy Cert. Purchase	81	19%	61	15%	20	30%	7	43%	54	20%	14	7%
≥75% Guestrooms Have Digital Thermostats	82	66%	62	66%	20	65%	7	86%	55	65%	14	57%
≥75% Guestrooms Have Ocupancy Sensors	82	32%	62	26%	20	50%	7	14%	55	33%	14	36%
≥75% Meeting Rooms Have Digital Thermostats	77	64%	61	66%	16	56%	7	86%	52	63%	14	57%
≥75% Meeting Rooms Have Occupancy Sensors	77	18%	61	10%	16	50%	7	0%	52	17%	14	36%
High Efficiency Boilers (>85% efficiency)	69	42%	58	47%	11	18%	7	57%	44	55%	14	7%
High Efficient Chillers (>0.5 kW/ton)	68	37%	57	40%	11	18%	6	67%	44	43%	14	7%
Energy Sub-Metering	85	49%	66	55%	19	32%	7	57%	57	49%	14	50%
- Fitness Facility	41	63%	35	71%	6	17%	5	80%	26	69%	7	14%
- Food & Beverage Facilities	43	86%	37	92%	6	50%	5	100%	28	96%	7	29%
- Guestrooms	43	77%	37	78%	6	67%	5	100%	28	64%	7	100%
- Public Spaces	42	76%	36	78%	6	67%			28	75%	7	100%
Energy Tracking	81	98%	61	98%	20	95%	6	100%	55	100%	14	86%
Benchmarking Energy among Peers	82	35%	62	35%	20	35%	7	29%	55	45%	14	0%
Energy Audit	81	47%	62	58%	19	11%	7	43%	54	52%	14	36%
Electric Vehicles	81	32%	62	42%	19	0%	7	43%	55	38%	14	7%
Recycling in Common Areas	86	86%	66	85%	20	90%	7	71%	58	86%	14	93%
Recycling Bins in Guestrooms	86	41%	66	36%	20	55%	7	0%	58	45%	14	50%
≥75% Guestrooms with Soap/Shampoo Dispensers	85	44%	65	35%	20	70%	7	29%	57	53%	14	7%
Waste and Recycling Tracking	86	45%	66	58%	20	5%	7	71%	58	50%	14	14%
Soap Donation	79	22%	65	25%	14	7%	7	43%	51	20%	14	21%
≥75% F&B with Reusable Food Service Ware	78	64%	65	68%	13	46%	7	86%	51	67%	14	29%
Food Waste Composting	80	29%	66	35%	14	0%	7	43%	52	33%	14	7%
Waste Audit	86	36%	66	44%	20	10%	7	14%	58	45%	14	0%
Food Waste Tracking	80	40%	66	44%	14	21%	7	14%	52	46%	14	14%
Food Waste Prevention Strategies	79	43%	65	51%	14	7%	7	43%	51	51%	14	7%
- Training	69	81%	60	80%	9	89%	7	57%	53	83%		
- Adjusting portion size	69	94%	60	93%	9	100%	7	86%	53	96%		
- Redesign menu	69	97%	60	97%	9	100%	7	100%	53	96%		
- Redesign menu												

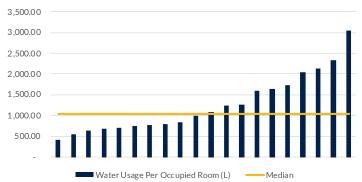
LADANI	A	LL	FULL SI	ERVICE	LTD SE	RVICE	RES	ORT	CITY/L	JRBAN	S. APAR	RTMENT
JAPAN	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Water Filtration/Hydration Station	85	16%	65	22%	20	0%	7	29%	57	16%	14	7%
Single-Use Plastics Eliminated	85	69%	65	75%	20	50%	7	71%	57	79%	14	21%
Waste Water Treatment	85	74%	65	83%	20	45%	7	100%	57	77%	14	36%
Food Donation	80	8%	66	9%	14	0%	7	14%	52	8%	14	7%
≥ 75% Low-Flow Toilets	86	40%	66	32%	20	65%	7	43%	58	40%	14	50%
≥ 75% Efficient Faucets	85	31%	65	31%	20	30%	7	14%	57	39%	14	7%
≥ 75% Efficient Showerheads	85	26%	65	32%	20	5%	7	0%	57	33%	14	7%
Water Tracking	86	98%	66	98%	20	95%	7	100%	58	98%	14	100%
Graywater Reuse	86	26%	66	33%	20	0%	7	71%	58	29%	14	0%
Low-flow Pre-Rinse Kitchen Spray Valves	86	28%	66	35%	20	5%	7	57%	58	29%	14	7%
Water Sub-Metering	86	50%	66	62%	20	10%	7	43%	58	57%	14	29%
- Fitness Facility	41	71%	40	73%					31	71%		
- Food & Beverage Facilities	43	88%	41	90%					33	91%		
- Guestrooms	42	79%	41	78%					32	75%		
- Landscaping/grounds keeping	42	43%	41	41%					32	38%		
Rainwater Capture	80	14%	66	17%	14	0%	7	29%	52	17%	14	0%
Native or Drought-Tolerant Landscaping	80	11%	66	14%	14	0%	7	0%	52	15%	14	7%
Preventive Maintainance program	86	87%	66	92%	20	70%	7	100%	58	88%	14	71%
Written Environmental Policy(ies)	79	48%	65	52%	14	29%	7	57%	51	49%	14	29%
Green Practices Shared on Website	85	32%	65	31%	20	35%	7	29%	57	42%	14	7%
Green Champion	85	56%	65	68%	20	20%	7	57%	57	67%	14	7%
Green Team	84	54%	65	66%	19	11%	7	57%	57	63%	14	7%
Green Team Budget	85	31%	65	37%	20	10%	7	29%	57	39%	14	0%
Staff Training	84	50%	65	51%	19	47%	7	43%	57	54%	14	21%
Employee Volunteering Opps During Work Hours	86	53%	66	62%	20	25%	7	43%	58	53%	14	64%
Staff Recognition	85	35%	65	38%	20	25%	7	43%	57	26%	14	71%
Comment/Suggestion Process	85	44%	65	54%	20	10%	7	43%	57	44%	14	36%
>50% Green Cleaning Products	85	24%	65	29%	20	5%	7	14%	57	30%	14	7%
Green Initiatives Communication in Guestrooms	85	46%	65	48%	20	40%	7	14%	57	56%	14	21%
Involve Guest to Support Green Initiatives	85	45%	65	46%	20	40%	7	57%	57	49%	14	21%
Reward Program for Sustainable Guests	84	14%	64	19%	20	0%	7	14%	56	16%	14	7%
	85										14	0%
100% non-smoking	-	35%	65	29%	20	55%	7	71%	57	40%		
≥ 75% of non-smoking guestrooms	85	72%	65	74%	20	65%	7	86%	57	79%	14	36%
3rd-party Certification	86	8%	66	11%	20	0%	7	0%	58	12%	14	0%
Carbon Footprint Measured	86	57%	66	64%	20	35%	7	71%	58	67%	14	14%
Local Procurement Policy	86	56%	66	62%	20	35%	7	71%	58	62%	14	14%
Green Roof	86	20%	66	24%	20	5%	7	14%	58	22%	14	14%
Vegetable Garden	86	1%	66	2%	20	0%	7	0%	58	2%	14	0%
Beekeeping	86	1%	66	2%	20	0%	7	0%	58	2%	14	0%
Low-VOC or VOC-free paints in renovations/additions	86	38%	66	45%	20	15%	7	43%	58	38%	14	36%
HVAC Filters Routinely Checked	86	85%	66	89%	20	70%	7	100%	58	81%	14	86%
Vegetarian Menu Options	78	67%	64	77%	14	21%	7	71%	50	84%	14	14%
Sustainable Seafood Procurement	77	34%	63	40%	14	7%	7	43%	49	39%	14	7%
Evaluate suppliers in human rights areas	83	23%	63	27%	20	10%	7	0%	55	33%	14	0%
Procurement requirements	85	25%	65	23%	20	30%	7	29%	57	30%	14	7%
- Contractors	22	86%	15	80%	7	100%			18	89%		
- Service Providers	20	60%	14	43%	6	100%			17	65%		
- Suppliers	22	95%	15	93%	7	100%			18	100%		
- Other	14	36%	14	36%					11	27%		

# KOREA

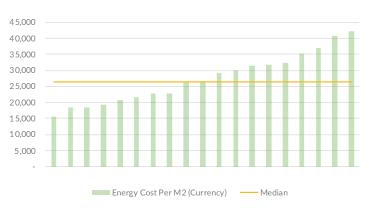
#### Energy Usage Per Square Metre (kWh)

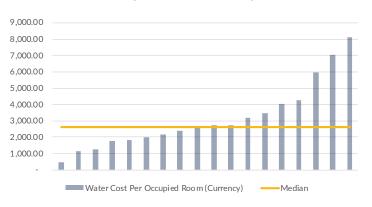


#### Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





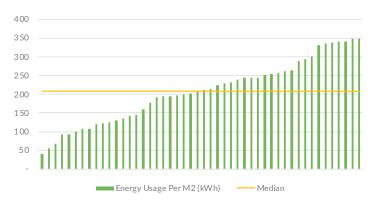
			ENE	RGY			WA	TER		GHG EM	IISSIONS
KOREA	A	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR
	Count	18	20	19	19	19	20	16	18	18	20
	High	562	360	42,301	24,364	5,914	3,047	14,168	8,092	205	138
	Mean	294	147	27,522	12,099	2,984	1,260	7,565	3,171	121	59
ALL	Q3	386	193	31,968	14,895	4,001	1,660	9,533	3,876	145	74
	Median	255	138	26,488	10,719	2,899	1,035	6,591	2,637	112	52
	Q1	204	86	21,315	8,065	1,857	736	5,543	1,854	95	35
	Low	129	39	15,513	4,941	1,164	421	3,354	483	65	21
	Count	12	13	12	13	13	14	9	12	12	13
	High	562	360	42,301	24,364	5,914	3,047	14,168	8,092	205	138
	Mean	321	168	26,826	13,492	2,881	1,466	7,792	3,742	128	67
FULL SERVICE	Q3	426	222	32,578	16,924	3,533	1,970	9,408	4,697	165	81
52.002	Median	301	138	24,516	12,395	2,829	1,424	6,667	3,109	121	65
	Q1	201	91	19,228	8,565	1,858	872	5,654	2,500	89	38
	Low	129	56	15,513	4,941	1,485	421	4,394	483	65	30
	Count	6	7	7	6	6	6	7	6	6	7
	High	284	194	36,879	12,791	4,509	1,249	11,463	3,175	129	94
	Mean	240	109	28,714	9,083	3,208	780	7,273	2,028	107	45
LIMITED SERVICE	Q3	259	157	31,923	11,899	4,193	762	9,290	2,109	113	55
52.002	Median	244	92	29,984	8,811	3,789	722	6,515	1,904	105	36
	Q1	217	61	24,722	6,636	2,198	678	5,498	1,765	102	29
	Low	194	39	20,846	5,243	1,164	547	3,354	1,290	84	21
	Count	15	16	15	15	15	15	13	14	15	16
	High	562	286	40,823	24,364	5,914	2,338	11,463	8,092	205	108
	Mean	297	145	28,055	13,166	3,131	1,270	7,447	3,496	123	59
CITY/ URBAN	Q3	371	193	31,968	16,390	4,025	1,683	9,408	4,204	139	74
31137111	Median	260	140	29,143	12,460	3,202	1,249	6,667	2,962	115	57
	Q1	221	86	22,868	8,942	1,839	722	5,588	1,854	101	35
	Low	129	39	15,513	5,243	1,164	547	3,354	1,144	69	21

KOREA	А	LL	FULL S	ERVICE	LTD SE	RVICE	CITY/U	JRBAN
KOREA	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	24	88%	16	88%	8	88%	18	83%
Opt-Out Linen Reuse	19	84%	12	92%	7	71%	14	79%
≥ 75% LED Lighting	24	96%	16	94%	8	100%	18	100%
Variable Frequency Drives	24	92%	16	88%	8	100%	18	94%
- Main Air Handling Units	22	86%	14	79%	8	100%	17	100%
- Kitchen Hoods	21	52%	14	64%	7	29%	16	50%
- Elevators	21	81%	14	93%	7	57%	16	75%
- Water Pumps	22	91%	14	93%	8	88%	17	88%
- Refrigeration Units	22	82%	14	86%	8	75%	17	82%
- Other	18	72%	13	69%	5	80%	13	77%
Renewable Power Generated?	24	33%	16	25%	8	50%	18	39%
- Wind Power	8	13%					7	14%
- Solar PV	8	63%					7	71%
- Heat Pump	8	50%					7	57%
- Solar Thermal	8	25%					7	29%
- Geothermal	8	63%					7	71%
- Hydroelectric	8	0%					7	0%
- Cogeneration	8	0%					7	0%
- Other	8	13%					7	14%
Carbon Offsets or Renewable Energy Certificate Purchase	24	29%	16	25%	8	38%	18	33%
≥ 75% Guestrooms Have Digital Thermostats	24	100%	16	100%	8	100%	18	100%
≥ 75% Guestrooms Have Ocupancy Sensors	24	83%	16	75%	8	100%	18	94%
· ·			16		8			
≥ 75% Meeting Rooms Have Digital Thermostats	24	79%	-	75%	-	88%	18	78%
≥ 75% Meeting Rooms Have Occupancy Sensors	24	33%	16	38%	8	25%	18	33%
High Efficiency Boilers (>85% efficiency)	21	95%	14	100%	7	86%	16	94%
High Efficient Chillers (>0.5 kW/ton)	22	95%	15	100%	7	86%	16	94%
Energy Sub-metering	24	50%	16	63%	8	25%	18	44%
- Fitness Facility	12	75%	10	80%			8	88%
- Food & Beverage Facilities	12	67%	10	70%			8	75%
- Guestrooms	12	67%	10	70%			8	50%
- Public Spaces	12	75%	10	80%			8	63%
Energy Tracking	24	100%	16	100%	8	100%	18	100%
Benchmarking Energy among Peers	24	50%	16	56%	8	38%	18	50%
Energy Audit	24	63%	16	75%	8	38%	18	56%
Electric Vehicles	24	58%	16	69%	8	38%	18	61%
Recycling in Common Areas	24	96%	16	94%	8	100%	18	94%
Recycling Bins in Guestrooms	24	58%	16	44%	8	88%	18	67%
≥ 75% G.rooms with Soap/Shampoo Dispensers	24	8%	16	6%	8	13%	18	6%
Waste and Recycling Tracking	23	65%	15	60%	8	75%	18	72%
Soap Donation	24	17%	16	25%	8	0%	18	11%
≥ 75% F&B with Reusable Food Service Ware	23	48%	15	40%	8	63%	18	44%
Food Waste Composting	22	59%	14	64%	8	50%	18	67%
Waste Audit	22	36%	14	36%	8	38%	18	39%
Food Waste Tracking	22	82%	14	71%	8	100%	18	89%
Food Waste Prevention Strategies	22	50%	14	50%	8	50%	18	56%
- Training	12	92%	7	100%	5	80%	11	91%
- Adjusting portion size	12	92%	7	100%	5	80%	11	91%
- Redesign menu	12	67%	7	57%	5	80%	11	73%
- Change size of serving vessel	12	83%	7	86%	5	80%	11	82%

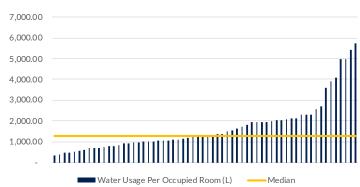
KORFA	А	LL	FULL S	ERVICE	LTD SE	ERVICE	CITY/U	JRBAN
KOREA	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Water Filtration/Hydration Station	21	29%	14	36%	7	14%	17	24%
Single-Use Plastics Eliminated	21	76%	14	79%	7	71%	17	76%
Waste Water Treatment	21	57%	14	57%	7	57%	17	59%
Food Donation	22	14%	14	14%	8	13%	18	17%
≥ 75% Low-Flow Toilets	21	81%	14	71%	7	100%	17	82%
≥ 75% Efficient Faucets	21	62%	14	43%	7	100%	17	65%
≥ 75% Efficient Showerheads	21	52%	14	50%	7	57%	17	41%
Water Tracking	22	100%	14	100%	8	100%	18	100%
Graywater Reuse	22	36%	14	36%	8	38%	18	39%
Low-flow Pre-Rinse Kitchen Spray Valves	22	50%	14	43%	8	63%	18	61%
Water Sub-Metering	22	59%	14	64%	8	50%	18	61%
- Fitness Facility	13	85%	9	78%			11	91%
- Food & Beverage Facilities	13	92%	9	89%			11	100%
- Guestrooms	13	69%	9	67%			11	73%
- Landscaping/grounds keeping	13	69%	9	78%			11	64%
Rainwater Capture	21	38%	14	36%	7	43%	17	35%
Native or Drought-Tolerant Landscaping	21	33%	14	29%	7	43%	17	41%
Preventive Maintainance program	22	95%	14	100%	8	88%	18	94%
Written Environmental Policy(ies)	22	86%	14	93%	8	75%	18	83%
Green Practices Shared on Website	22	45%	14	50%	8	38%	18	56%
Green Champion	22	86%	14	86%	8	88%	18	89%
Green Team	22	73%	14	79%	8	63%	18	78%
	21		-			71%	-	71%
Green Team Budget		62%	14	57%	7		17	71%
Staff Training	22	82%	14	86%	8	75%	18	
Employee Volunteering Opportunities During Work Hours	22	91%	14	93%	8	88%	18	94%
Staff Recognition	22	86%	14	86%	8	88%	18	83%
Comment/Suggestion Process	22	77%	14	86%	8	63%	18	72%
>50% Green Cleaning Products	22	45%	14	36%	8	63%	18	50%
Green Initiatives Communication in Guestrooms	22	77%	15	73%	7	86%	17	88%
Involve Guest to Support Green Initiatives	21	57%	14	57%	7	57%	17	53%
Reward Program for Sustainable Guests	21	29%	14	21%	7	43%	17	35%
100% non-smoking	23	87%	15	87%	8	88%	18	89%
≥ 75% of non-smoking guestrooms	23	100%	15	100%	8	100%	18	100%
3rd-party Certification	22	32%	14	21%	8	50%	18	39%
Carbon Footprint Measured	22	55%	14	50%	8	63%	18	67%
Local Procurement Policy	22	64%	14	57%	8	75%	18	72%
Green Roof	22	32%	14	21%	8	50%	18	33%
Vegetable Garden	22	9%	14	7%	8	13%	18	11%
Beekeeping	22	0%	14	0%	8	0%	18	0%
Low-VOC or VOC-free paints in renovations/additions	21	52%	14	57%	7	43%	17	59%
HVAC Filters Routinely Checked	21	95%	14	93%	7	100%	17	94%
Vegetarian Menu Options	22	86%	15	87%	7	86%	17	94%
Sustainable Seafood Procurement	22	82%	15	80%	7	86%	17	88%
Evaluate suppliers in human rights areas	21	52%	14	64%	7	29%	17	47%
Procurement requirements	22	27%	14	14%	8	50%	18	33%
- Contractors	7	86%					7	86%
- Service Providers	7	86%			Î		7	86%
- Suppliers	7	86%					7	86%
- Other	7	71%			Ì		7	71%



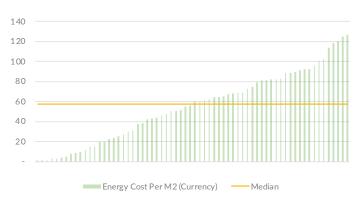
# Energy Usage Per Square Metre (kWh)

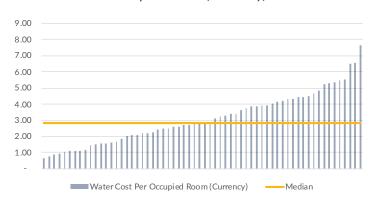


# Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





			ENE	RGY			WA	GHG EMISSIONS			
MALAYS	SIA	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR
	Count	48	67	66	69	49	62	48	62	51	67
	High	349	451	127	87	5,286	5,741	9	8	263	254
	Mean	207	143	55	40	2,519	1,697	5	3	127	78
ALL	Q3	258	183	82	49	3,044	2,053	6	4	158	92
	Median	209	109	58	37	2,310	1,292	5	3	123	63
	Q1	134	74	24	28	1,831	932	4	2	85	47
	Low	41	30	0	13	314	326	1	1	26	19
	Count	44	61	60	63	44	56	44	56	47	61
	High	349	451	127	87	5,286	5,741	9	8	263	254
	Mean	210	151	55	42	2,601	1,800	5	3	129	82
FULL SERVICE	Q3	262	186	81	49	3,097	2,087	6	4	161	100
JERVICE	Median	217	112	58	39	2,429	1,364	5	3	123	66
	Q1	134	91	23	29	1,828	982	4	2	85	52
	Low	41	37	0	15	567	454	1	1	26	24
	Count		6	6	6	5	6		6		6
	High		74	100	34	2,350	1,287		2		48
	Mean		54	57	22	1,796	732		1		34
LIMITED SERVICE	Q3		67	81	27	2,238	923		2		40
SERVICE	Median		56	59	19	2,079	689		2		35
	Q1		41	34	15	1,999	473		1		25
	Low		30	8	13	314	326		1		19
	Count	11	18	18	16	11	14	11	12	13	18
	High	340	425	96	83	4,820	5,741	7	7	263	236
	Mean	151	186	38	41	2,537	3,068	4	4	111	104
RESORT	Q3	190	268	53	45	3,662	4,743	6	5	158	151
	Median	108	115	31	38	2,826	2,346	3	3	87	67
	Q1	80	88	16	33	1,263	1,934	2	3	60	50
	Low	41	71	1	28	567	672	1	1	26	32
	Count	36	43	45	45	37	43	37	46	37	43
	High	349	451	127	82	5,286	3,599	9	8	260	254
	Mean	221	126	63	40	2,444	1,283	5	3	131	69
CITY/ URBAN	Q3	258	169	83	50	2,877	1,669	6	4	158	83
ORBAN	Median	227	105	65	36	2,310	1,101	5	3	125	63
	Q1	184	72	46	27	1,898	811	4	2	105	46
	Low	92	30	0	13	314	326	2	1	55	19
	Count				6						
	High				87						
	Mean				44						
SERVICED	Q3				49						
APARTMENT	Median				38						
	Q1				26						
	Low				23						

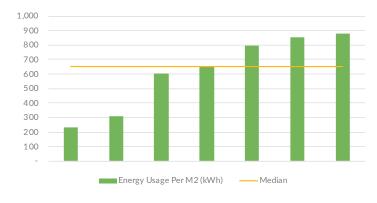
MALAYCIA		LL	FULL S	ERVICE	E LTD SERVICE		RESORT		CITY/URBAN		S. APARTMENT	
MALAYSIA	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	97	80%	85	80%	12	83%	26	73%	62	84%	7	71%
Opt-Out Linen Reuse	73	62%	64	66%	9	33%	17	59%	49	65%	5	40%
≥75% LED Lighting	96	90%	84	88%	12	100%	26	85%	61	93%	7	86%
Variable Frequency Drives	98	62%	86	64%	12	50%	26	62%	63	67%	7	29%
- Main Air Handling Units	60	80%	54	81%	6	67%	16	69%	41	83%		
- Kitchen Hoods	55	47%	49	51%	6	17%	14	50%	39	46%		
- Elevators	55	73%	50	74%	5	60%	14	79%	39	72%		
- Water Pumps	57	84%	52	87%	5	60%	15	93%	40	83%		
- Refrigeration Units	53	42%	48	44%	5	20%	14	43%	37	41%		
- Other	51	57%	46	57%	5	60%	14	71%	35	51%		
Renewable Power Generated?	99	5%	87	6%	12	0%	27	11%	63	3%	7	0%
- Wind Power	5	60%	5	60%								
- Solar PV	5	60%	5	60%								
- Heat Pump	5	100%	5	100%								
- Solar Thermal	5	60%	5	60%								
- Geothermal	5	60%	5	60%								
- Hydroelectric	5	60%	5	60%								
- Cogeneration	5	60%	5	60%								
- Other	5	100%	5	100%								
Carbon Offsets/Renewable Energy Cert. Purchase	87	7%	78	8%	9	0%	25	4%	54	7%	6	0%
≥75% Guestrooms Have Digital Thermostats	100	59%	88	59%	12	58%	28	46%	64	63%	6	67%
≥75% Guestrooms Have Ocupancy Sensors	100	31%	88	28%	12	50%	28	25%	64	34%	6	33%
· ,	100	50%	88	50%	12	50%	28		64		6	100%
≥75% Meeting Rooms Have Digital Thermostats								43%		48%		
≥75% Meeting Rooms Have Occupancy Sensors	100	20%	88	17%	12	42%	28	14%	64	23%	6	17%
High Efficiency Boilers (>85% efficiency)	77	53%	69	52%	8	63%	19	53%	53	53%		
High Efficient Chillers (>0.5 kW/ton)	77	64%	69	65%	8	50%	20	65%	52	63%	7	F70/
Energy Sub-Metering	96	51%	85	51%	11	55%	26	69%	61	43%	7	57%
- Fitness Facility	45	58%	39	59%	6	50%	16	56%	25	56%		
- Food & Beverage Facilities	48	77%	42	76%	6	83%	18	78%	26	73%		
- Guestrooms	45	58%	39	56%	6	67%	15	47%	25	60%		
- Public Spaces	46	87%	40	90%	6	67%	16	69%	26	96%		
Energy Tracking	89	96%	79	96%	10	90%	25	100%	56	95%	6	83%
Benchmarking Energy among Peers	88	60%	78	59%	10	70%	25	68%	55	62%	6	33%
Energy Audit	87	46%	77	47%	10	40%	25	52%	54	44%	6	33%
Electric Vehicles	86	20%	77	22%	9	0%	24	29%	54	17%	6	17%
Recycling in Common Areas	95	75%	83	76%	12	67%	26	73%	60	77%	7	71%
Recycling Bins in Guestrooms	94	15%	82	16%	12	8%	26	12%	59	17%	7	14%
≥75% Guestrooms with Soap/Shampoo Dispensers	101	19%	89	17%	12	33%	28	25%	64	17%	7	14%
Waste and Recycling Tracking	94	40%	82	39%	12	50%	26	27%	60	48%	6	33%
Soap Donation	95	25%	83	27%	12	17%	26	15%	60	30%	7	29%
≥75% F&B with Reusable Food Service Ware	101	54%	89	55%	12	50%	28	54%	64	53%	7	71%
Food Waste Composting	94	34%	82	37%	12	17%	25	44%	60	30%	7	43%
Waste Audit	94	28%	82	29%	12	17%	26	35%	60	28%	6	0%
Food Waste Tracking	93	57%	83	60%	10	30%	26	62%	58	57%	7	29%
Food Waste Prevention Strategies	92	46%	82	48%	10	30%	26	50%	57	44%	7	29%
- Training	41	85%	38	84%			12	92%	25	80%		
- Adjusting portion size	41	90%	38	89%			12	92%	25	88%		
- Redesign menu	42	88%	39	87%			13	77%	25	92%		
- Change size of serving vessel	42	88%	39	87%			13	92%	25	84%		

NANI ANGLA	A	LL	FULL SERVICE		LTD SERVICE		RESORT		CITY/URBAN		S. APAR	TMENT
MALAYSIA	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Water Filtration/Hydration Station	93	52%	82	55%	11	27%	26	46%	58	55%	7	57%
Single-Use Plastics Eliminated	90	71%	79	75%	11	45%	25	60%	57	74%	6	83%
Waste Water Treatment	92	65%	81	65%	11	64%	25	72%	59	64%	6	33%
Food Donation	93	30%	83	29%	10	40%	26	27%	58	28%	7	57%
≥ 75% Low-Flow Toilets	100	69%	88	69%	12	67%	28	68%	64	69%	6	67%
≥ 75% Efficient Faucets	100	45%	88	48%	12	25%	28	39%	64	48%	6	50%
≥ 75% Efficient Showerheads	100	48%	88	50%	12	33%	28	46%	64	50%	6	33%
Water Tracking	93	98%	82	98%	11	100%	26	100%	59	97%	6	100%
Graywater Reuse	93	6%	82	7%	11	0%	26	12%	59	5%	6	0%
Low-flow Pre-Rinse Kitchen Spray Valves	93	54%	82	54%	11	55%	26	50%	59	59%	6	17%
Water Sub-Metering	93	47%	82	46%	11	55%	26	58%	59	41%	6	50%
- Fitness Facility	39	33%	33	33%	6	33%	12	33%	22	36%		
- Food & Beverage Facilities	43	72%	37	70%	6	83%	14	57%	24	75%		
- Guestrooms	39	38%	33	36%	6	50%	12	50%	22	32%		
- Landscaping/grounds keeping	41	29%	35	31%	6	17%	13	62%	23	13%		
Rainwater Capture	90	14%	81	14%	9	22%	24	21%	58	14%	6	0%
Native or Drought-Tolerant Landscaping	88	20%	79	23%	9	0%	23	35%	58	12%	5	60%
Preventive Maintainance program	93	92%	81	93%	12	92%	26	100%	59	88%	6	100%
Written Environmental Policy(ies)	93	66%	81	65%	12	67%	25	64%	59	68%	7	71%
Green Practices Shared on Website	91	46%	79	47%	12	42%	25	60%	58	43%	6	33%
Green Champion	92	46%	80	46%	12	42%	26	42%	58	50%	6	33%
Green Team	91	47%	79	49%	12	33%	25	44%	58	50%	6	50%
Green Team Budget	92	36%	80	38%	12	25%	26	42%	58	36%	6	17%
Staff Training	92	50%	80	53%	12	33%	26	54%	58	50%	6	33%
Employee Volunteering Opps During Work Hours	93	73%	81	78%	12	42%	26	92%	59	66%	6	67%
Staff Recognition	92	42%	80	45%	12	25%	26	50%	58	38%	6	50%
Comment/Suggestion Process	92	50%	80	53%	12	33%	26	42%	58	57%	6	33%
>50% Green Cleaning Products	90	50%	80	51%	10	40%	26	38%	56	57%	6	33%
Green Initiatives Communication in Guestrooms	90	61%	79	63%	11	45%	25	52%	57	61%	6	83%
Involve Guest to Support Green Initiatives	91	42%	80	45%	11	18%	26	50%	57	37%	6	50%
Reward Program for Sustainable Guests	90	14%	79	15%	11	9%	26	8%	56	20%	6	0%
100% non-smoking	92	52%	80	51%	12	58%	25	60%	58	52%	7	29%
≥ 75% of non-smoking guestrooms	101	71%	89	71%	12	75%	28	50%	64	78%	7	86%
3rd-party Certification	90	27%	78	28%	12	17%	25	20%	57	33%	6	0%
Carbon Footprint Measured	91	24%	79	28%	12	0%	25	28%	58	24%	6	17%
Local Procurement Policy	91	66%	79	68%	12	50%	25	68%	57	65%	7	71%
Green Roof	96	22%	84	21%	12	25%	26	15%	61	21%	7	57%
Vegetable Garden	96	7%	84	8%	12	0%	26	12%	61	5%	7	14%
Beekeeping	94	1%	82	1%	12	0%	26	4%	60	0%	6	0%
Low-VOC or VOC-free paints in renovations/additions	88	39%	78	40%	10	30%	22	27%	58	41%	6	67%
HVAC Filters Routinely Checked	90	80%	80	81%	10	70%	25	76%	58	81%	5	100%
Vegetarian Menu Options	92	97%	81	98%	11	91%	26	92%	57	98%	7	100%
Sustainable Seafood Procurement	89	54%	79	57%	10	30%	23	57%	57	56%	7	29%
Evaluate suppliers in human rights areas	90	38%	79	41%	11	18%	25	52%	56	36%	7	14%
Procurement requirements	91	52%	80	51%	11	55%	25	60%	57	51%	7	29%
- Contractors	45	96%	39	95%	6	100%	14	93%	29	97%		
- Service Providers	40	95%	35	97%	5	80%	11	100%	27	93%		
- Suppliers	46	98%	40	98%	6	100%	15	93%	29	100%		
- Other	36	75%	31	74%	5	80%	10	90%	25	68%		

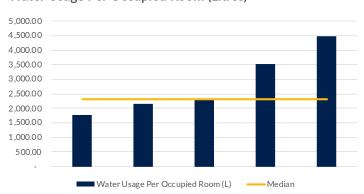
# **MALDIVES**



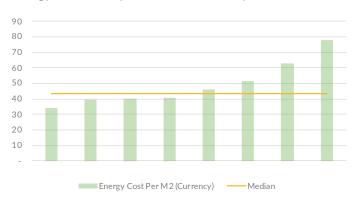
# Energy Usage Per Square Metre (kWh)



# Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**



			ENE	RGY		WATER	GHG EMISSIONS		
MALDIV	ES	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage POR	Usage PSM	Usage POR	
	Count	7	9	8	14	5	7	9	
	High	878	884	78	153	4,489	283	285	
	Mean	617	507	49	73	2,850	208	182	
ALL	Q3	823	694	54	110	3,510	263	223	
	Median	649	463	43	52	2,326	205	189	
	Q1	457	337	40	39	2,169	165	130	
	Low	235	170	34	27	1,757	114	74	
	Count	7	9	8	14	5	7	9	
	High	878	884	78	153	4,489	283	285	
	Mean	617	507	49	73	2,850	208	182	
FULL SERVICE	Q3	823	694	54	110	3,510	263	223	
	Median	649	463	43	52	2,326	205	189	
	Q1	457	337	40	39	2,169	165	130	
	Low	235	170	34	27	1,757	114	74	
	Count	7	9	8	14	5	7	9	
	High	878	884	78	153	4,489	283	285	
	Mean	617	507	49	73	2,850	208	182	
RESORT	Q3	823	694	54	110	3,510	263	223	
	Median	649	463	43	52	2,326	205	189	
	Q1	457	337	40	39	2,169	165	130	
	Low	235	170	34	27	1,757	114	74	

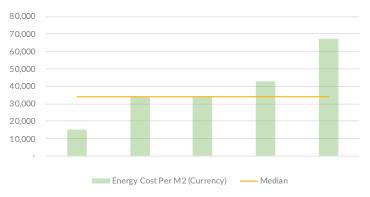
MALDIVEC	А	LL	FULL S	ERVICE	RESORT		
MALDIVES	Count	Yes	Count	Yes	Count	Yes	
Towel Reuse Program?	16	94%	16	94%	16	94%	
Opt-Out Linen Reuse	15	73%	15	73%	15	73%	
≥ 75% LED Lighting	16	88%	16	88%	16	88%	
Variable Frequency Drives	16	69%	16	69%	16	69%	
- Main Air Handling Units	11	55%	11	55%	11	55%	
- Kitchen Hoods	10	40%	10	40%	10	40%	
- Elevators	7	0%	7	0%	7	0%	
- Water Pumps	11	91%	11	91%	11	91%	
- Refrigeration Units	10	80%	10	80%	10	80%	
- Other	10	80%	10	80%	10	80%	
Renewable Power Generated?	16	69%	16	69%	16	69%	
- Wind Power	10	0%	10	0%	10	0%	
- Solar PV	10	50%	10	50%	10	50%	
- Heat Pump	10	0%	10	0%	10	0%	
- Solar Thermal	10	20%	10	20%	10	20%	
- Geothermal	10	0%	10	0%	10	0%	
- Hydroelectric	10	0%	10	0%	10	0%	
- Cogeneration	10	10%	10	10%	10	10%	
- Other	11	73%	11	73%	11	73%	
Carbon Offsets or Renewable Energy Certificate Purchase	15	7%	15	7%	15	7%	
≥ 75% Guestrooms Have Digital Thermostats	16	69%	16	69%	16	69%	
≥ 75% Guestrooms Have Ocupancy Sensors	16	25%	16	25%	16	25%	
≥ 75% Meeting Rooms Have Digital Thermostats	15	53%	15	53%	15	53%	
≥ 75% Meeting Rooms Have Occupancy Sensors	15	7%	15	7%	15	7%	
High Efficiency Boilers (>85% efficiency)	15	47%	15	47%	15	47%	
High Efficient Chillers (>0.5 kW/ton)	13	54%	13	54%	13	54%	
Energy Sub-metering	16	75%	16	75%	16	75%	
- Fitness Facility	12	75%	12	75%	12	75%	
- Food & Beverage Facilities	12	92%	12	92%	12	92%	
- Guestrooms	12	100%	12	100%	12	100%	
- Public Spaces	12	92%	12	92%	12	92%	
Energy Tracking	16	100%	16	100%	16	100%	
Benchmarking Energy among Peers	14	79%	14	79%	14	79%	
Energy Audit	14	71%	14	71%	14	71%	
Electric Vehicles	15	73%	15	73%	15	73%	
Recycling in Common Areas	16	63%	16	63%	16	63%	
Recycling Bins in Guestrooms	16	31%	16	31%	16	31%	
≥ 75% G.rooms with Soap/Shampoo Dispensers	16	94%	16	94%	16	94%	
Waste and Recycling Tracking	16	94%	16	94%	16	94%	
Soap Donation	16	13%	16	13%	16	13%	
≥ 75% F&B with Reusable Food Service Ware	16	88%	16	88%	16	88%	
Food Waste Composting	16	31%	16	31%	16	31%	
Waste Audit	16	50%	16	50%	16	50%	
Food Waste Tracking	16	88%	16	88%	16	88%	
Food Waste Prevention Strategies	15	80%	15	80%	15	80%	
- Training	15	80%	15	80%	15	80%	
- Adjusting portion size	15	80%	15	80%	15	80%	
- Redesign menu	15	93%	15	93%	15	93%	
- Change size of serving vessel	15	87%	15	87%	15	87%	

MALDIVES	А	LL	FULL S	ERVICE	RESORT		
MALDIVES	Count	Yes	Count	Yes	Count	Yes	
Water Filtration/Hydration Station	16	81%	16	81%	16	81%	
Single-Use Plastics Eliminated	16	88%	16	88%	16	88%	
Waste Water Treatment	15	73%	15	73%	15	73%	
Food Donation	16	6%	16	6%	16	6%	
≥ 75% Low-Flow Toilets	16	88%	16	88%	16	88%	
≥ 75% Efficient Faucets	15	67%	15	67%	15	67%	
≥ 75% Efficient Showerheads	15	60%	15	60%	15	60%	
Water Tracking	16	94%	16	94%	16	94%	
Graywater Reuse	16	75%	16	75%	16	75%	
Low-flow Pre-Rinse Kitchen Spray Valves	15	87%	15	87%	15	87%	
Water Sub-Metering	15	80%	15	80%	15	80%	
- Fitness Facility	12	83%	12	83%	12	83%	
- Food & Beverage Facilities	11	100%	11	100%	11	100%	
- Guestrooms	12	100%	12	100%	12	100%	
- Landscaping/grounds keeping	12	83%	12	83%	12	83%	
Rainwater Capture	15	47%	15	47%	15	47%	
Native or Drought-Tolerant Landscaping	15	47%	15	47%	15	47%	
Preventive Maintainance program	16	100%	16	100%	16	100%	
Written Environmental Policy(ies)	16	88%	16	88%	16	88%	
Green Practices Shared on Website	16	75%	16	75%	16	75%	
Green Champion	16	81%	16	81%	16	81%	
Green Team	16	88%	16	88%	16	88%	
Green Team Budget	16	69%	16	69%	16	69%	
Staff Training	16	88%	16	88%	16	88%	
Employee Volunteering Opportunities During Work Hours	16	94%	16	94%	16	94%	
Staff Recognition	16	88%	16	88%	16	88%	
Comment/Suggestion Process	16	88%	16	88%	16	88%	
>50% Green Cleaning Products	16	88%	16	88%	16	88%	
Green Initiatives Communication in Guestrooms	16	81%	16	81%	16	81%	
Involve Guest to Support Green Initiatives	16	75%	16	75%	16	75%	
Reward Program for Sustainable Guests	16	13%	16	13%	16	13%	
100% non-smoking	16	38%	16	38%	16	38%	
≥ 75% of non-smoking guestrooms	16	88%	16	88%	16	88%	
3rd-party Certification	16	50%	16	50%	16	50%	
Carbon Footprint Measured	16	75%	16	75%	16	75%	
Local Procurement Policy	14	93%	14	93%	14	93%	
Green Roof	16	13%	16	13%	16	13%	
Vegetable Garden	15	0%	15	0%	15	0%	
Beekeeping	16	0%	16	0%	16	0%	
Low-VOC or VOC-free paints in renovations/additions	15	47%	15	47%	15	47%	
HVAC Filters Routinely Checked	16	88%	16	88%	16	88%	
Vegetarian Menu Options	15	87%	15	87%	15	87%	
Sustainable Seafood Procurement	14	64%	14	64%	14	64%	
Evaluate suppliers in human rights areas	14	64%	14	64%	14	64%	
Procurement requirements	16	75%	16	75%	16	75%	
- Contractors	15	93%	15	93%	15	93%	
- Service Providers	11	91%	11	91%	11	91%	
- Suppliers	15	100%	15	100%	15	100%	
- Other	8	88%	8	88%	8	88%	

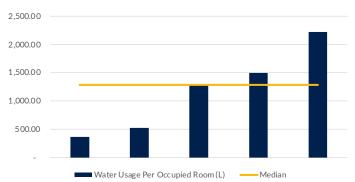
# **MYANMAR**

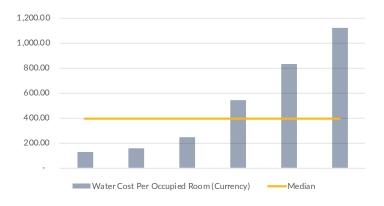


# **Energy Cost Per Square Metre (Currency)**



# Water Usage Per Occupied Room (Litres)





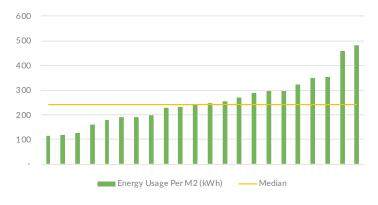
			ENERGY			WATER		GHG EMISSIONS		
MYANM	AR	Usage POR	Cost PSM	Cost POR	Usage POR	Cost PSM	Cost POR	Usage POR		
	Count	7	5	5	5	5	6	7		
	High	216	67,518	23,490	2,222	1,504	1,120	78		
	Mean	138	38,686	19,585	1,179	871	505	48		
ALL	Q3	141	42,610	19,985	1,499	1,077	758	50		
	Median	133	34,224	18,853	1,282	833	396	47		
	Q1	127	33,697	18,279	525	642	182	42		
	Low	81	15,382	17,316	367	296	127	27		
	Count	7	5	5	5	5	6	7		
	High	216	67,518	23,490	2,222	1,504	1,120	78		
	Mean	138	38,686	19,585	1,179	871	505	48		
FULL SERVICE	Q3	141	42,610	19,985	1,499	1,077	758	50		
	Median	133	34,224	18,853	1,282	833	396	47		
	Q1	127	33,697	18,279	525	642	182	42		
	Low	81	15,382	17,316	367	296	127	27		
	Count	6		5			5	6		
	High	216		23,490			829	78		
	Mean	137		19,585			382	47		
CITY/ URBAN	Q3	135		19,985			545	48		
	Median	133		18,853			247	46		
	Q1	125		18,279			161	41		
	Low	81		17,316			127	27		

NAVANINAAD	А	LL	FULL S	ERVICE	CITY/URBAN		
MYANMAR	Count	Yes	Count	Yes	Count	Yes	
Towel Reuse Program?	8	100%	8	100%	6	100%	
Opt-Out Linen Reuse	8	100%	8	100%	6	100%	
≥ 75% LED Lighting	8	88%	8	88%	6	83%	
Variable Frequency Drives	8	50%	8	50%	6	67%	
Renewable Power Generated?	8	50%	8	50%	6	67%	
Carbon Offsets or Renewable Energy Certificate Purchase	8	13%	8	13%	6	17%	
≥ 75% Guestrooms Have Digital Thermostats	8	63%	8	63%	6	67%	
≥ 75% Guestrooms Have Ocupancy Sensors	8	75%	8	75%	6	83%	
≥ 75% Meeting Rooms Have Digital Thermostats	7	57%	7	57%	6	67%	
≥ 75% Meeting Rooms Have Occupancy Sensors	7	43%	7	43%	6	50%	
High Efficiency Boilers (>85% efficiency)	7	71%	7	71%	6	83%	
High Efficient Chillers (>0.5 kW/ton)	7	71%	7	71%	6	67%	
Energy Sub-metering	8	38%	8	38%	6	50%	
Energy Tracking	8	100%	8	100%	6	100%	
Benchmarking Energy among Peers	8	38%	8	38%	6	50%	
Energy Audit	8	63%	8	63%	6	67%	
Electric Vehicles	8	0%	8	0%	6	0%	
Recycling in Common Areas	8	88%	8	88%	6	100%	
Recycling Bins in Guestrooms	8	38%	8	38%	6	50%	
≥ 75% G.rooms with Soap/Shampoo Dispensers	8	0%	8	0%	6	0%	
Waste and Recycling Tracking	8	38%	8	38%	6	33%	
Soap Donation	8	75%	8	75%	6	67%	
≥ 75% F&B with Reusable Food Service Ware	8	50%	8	50%	6	33%	
Food Waste Composting	8	63%	8	63%	6	67%	
Waste Audit	8	13%	8	13%	6	17%	
Food Waste Tracking	8	63%	8	63%	6	67%	
Food Waste Prevention Strategies	8	75%	8	75%	6	83%	
- Training	9	89%	9	89%	6	83%	
- Adjusting portion size	9	100%	9	100%	6	100%	
- Redesign menu	9	100%	9	100%	6	100%	
- Change size of serving vessel	9	89%	9	89%	6	83%	
Water Filtration/Hydration Station	8	88%	8	88%	6	100%	
Single-Use Plastics Eliminated	8	100%	8	100%	6	100%	
Waste Water Treatment	8	75%	8	75%	6	67%	
Food Donation	8	38%	8	38%	6	17%	
≥ 75% Low-Flow Toilets	8	75%	8	75%	6	83%	
≥ 75% Efficient Faucets	8	63%	8	63%	6	83%	
≥ 75% Efficient Showerheads	8	63%	8	63%	6	67%	
Water Tracking	8	100%	8	100%	6	100%	
Graywater Reuse	8	38%	8	38%	6	17%	
Low-flow Pre-Rinse Kitchen Spray Valves	8	50%	8	50%	6	67%	
Water Sub-Metering	8	13%	8	13%	6	17%	
Rainwater Capture	8	50%	8	50%	6	50%	
Native or Drought-Tolerant Landscaping	8	38%	8	38%	6	33%	
Preventive Maintainance program	8	100%	8	100%	6	100%	
Written Environmental Policy(ies)	8	88%	8	88%	6	100%	
Green Practices Shared on Website	8	50%	8	50%	6	50%	
Green Champion	8	50%	8	50%	6	50%	
Green Team	8	63%	8	63%	6	67%	

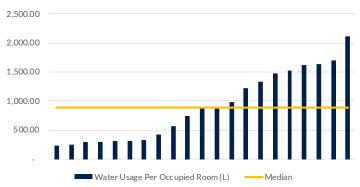
NAVANINA D	А	LL	FULL S	ERVICE	CITY/URBAN		
MYANMAR	Count	Yes	Count	Yes	Count	Yes	
Green Team Budget	8	38%	8	38%	6	33%	
Staff Training	8	88%	8	88%	6	100%	
Employee Volunteering Opportunities During Work Hours	8	100%	8	100%	6	100%	
Staff Recognition	8	63%	8	63%	6	67%	
Comment/Suggestion Process	8	75%	8	75%	6	83%	
>50% Green Cleaning Products	8	38%	8	38%	6	50%	
Green Initiatives Communication in Guestrooms	8	75%	8	75%	6	67%	
Involve Guest to Support Green Initiatives	8	75%	8	75%	6	83%	
Reward Program for Sustainable Guests	8	38%	8	38%	6	33%	
100% non-smoking	8	50%	8	50%	6	50%	
≥ 75% of non-smoking guestrooms	8	75%	8	75%	6	83%	
3rd-party Certification	8	13%	8	13%	6	17%	
Carbon Footprint Measured	8	13%	8	13%	6	17%	
Local Procurement Policy	8	88%	8	88%	6	83%	
Green Roof	8	38%	8	38%	6	50%	
Vegetable Garden	8	13%	8	13%	6	17%	
Beekeeping	8	0%	8	0%	6	0%	
Low-VOC or VOC-free paints in renovations/additions	8	50%	8	50%	6	50%	
HVAC Filters Routinely Checked	8	100%	8	100%	6	100%	
Vegetarian Menu Options	8	100%	8	100%	6	100%	
Sustainable Seafood Procurement	8	100%	8	100%	6	100%	
Evaluate suppliers in human rights areas	8	88%	8	88%	6	100%	
Procurement requirements	8	63%	8	63%	6	67%	
- Contractors	5	100%	5	100%			
- Service Providers	5	100%	5	100%			
- Suppliers	5	100%	5	100%			
- Other	5	60%	5	60%			

# PHILIPPINES

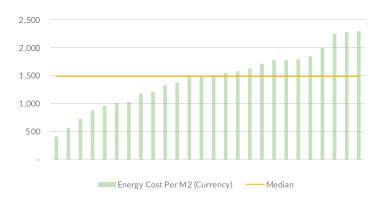
# Energy Usage Per Square Metre (kWh)

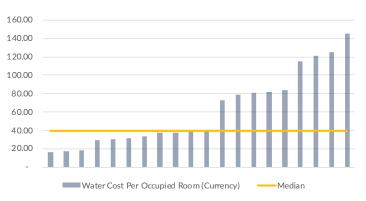


# Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





			ENE	RGY			WA	GHG EMISSIONS			
PHILIPPII	NES	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR
	Count	22	25	26	25	16	21	22	20	22	25
	High	483	230	2,291	917	5,870	2,120	475	145	283	154
	Mean	255	85	1,445	428	2,847	912	189	62	154	51
ALL	Q3	297	121	1,774	681	3,808	1,470	247	82	172	69
	Median	242	75	1,480	334	3,132	886	148	40	151	48
	Q1	189	21	1,062	147	1,697	312	89	31	122	13
	Low	114	12	418	100	168	232	7	17	74	8
	Count	12	14	13	13	10	14	13	11	12	14
	High	483	230	2,291	917	5,870	2,120	379	125	283	154
	Mean	297	133	1,442	640	3,172	1,214	140	79	171	79
FULL SERVICE	Q3	352	157	1,789	815	4,109	1,600	190	100	209	88
	Median	294	118	1,476	676	3,237	1,277	114	80	168	67
	Q1	235	112	1,216	499	2,076	888	82	56	128	60
	Low	118	67	418	268	825	302	7	30	74	45
	Count	10	11	13	12	6	7	9	9	10	11
	High	296	82	2,274	772	3,872	428	475	145	198	48
	Mean	203	25	1,448	198	2,306	308	261	41	133	16
LIMITED SERVICE	Q3	237	22	1,773	165	3,292	322	359	38	154	14
	Median	209	19	1,541	146	2,509	306	238	32	138	12
	Q1	166	18	1,014	135	1,543	274	156	18	109	12
	Low	114	12	563	100	168	232	23	17	75	8
	Count	21	23	25	24	15	19	20	19	21	23
	High	483	230	2,291	917	4,604	2,120	475	145	283	154
	Mean	245	84	1,455	417	2,645	871	201	61	149	51
CITY/ URBAN	Q3	296	118	1,774	700	3,621	1,404	273	83	169	69
	Median	238	71	1,482	301	3,019	735	167	39	150	46
	Q1	189	20	1,022	147	1,620	309	99	31	121	13
	Low	114	12	418	100	168	232	23	17	74	8

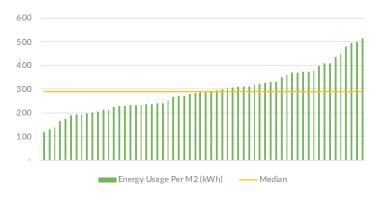
DI III IDDINIC	А	LL	FULL SERVICE		LTD SERVICE		CITY/URBAN	
PHILIPPINES	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	31	71%	16	94%	15	47%	29	69%
Opt-Out Linen Reuse	20	70%	14	64%	6	83%	18	67%
≥ 75% LED Lighting	33	97%	17	100%	16	94%	31	97%
Variable Frequency Drives	33	61%	17	88%	16	31%	31	58%
- Main Air Handling Units	19	74%	14	79%	5	60%	18	78%
- Kitchen Hoods	18	39%	13	31%	5	60%	17	41%
- Elevators	19	42%	14	29%	5	80%	18	39%
- Water Pumps	20	85%	15	80%	5	100%	18	83%
- Refrigeration Units	19	42%	14	36%	5	60%	18	39%
- Other	18	61%	15	73%			16	56%
Renewable Power Generated?	32	16%	17	24%	15	7%	30	13%
- Wind Power	5	20%						
- Solar PV	5	20%						
- Heat Pump	5	80%						
- Solar Thermal	5	20%						
- Geothermal	5	20%						
- Hydroelectric	5	20%						
- Cogeneration	5	20%						
- Other	5	40%						
Carbon Offsets or Renewable Energy Certificate Purchase	28	11%	14	21%	14	0%	26	12%
≥ 75% Guestrooms Have Digital Thermostats	30	60%	15	87%	15	33%	28	61%
≥ 75% Guestrooms Have Ocupancy Sensors	29	34%	15	53%	14	14%	27	33%
≥ 75% Meeting Rooms Have Digital Thermostats	29	48%	15	87%	14	7%	27	48%
≥ 75% Meeting Rooms Have Occupancy Sensors	29	28%	15	47%	14	7%	27	26%
High Efficiency Boilers (>85% efficiency)	25	40%	12	58%	13	23%	23	39%
High Efficient Chillers (>0.5 kW/ton)	25	48%	12	92%	13	8%	23	43%
Energy Sub-metering	32	72%	17	71%	15	73%	30	70%
- Fitness Facility	17	47%	12	67%	5	0%	15	40%
- Food & Beverage Facilities	19	79%	11	82%	8	75%	17	76%
- Guestrooms	18	56%	11	73%	7	29%	17	53%
- Public Spaces			-					
·	21	71%	14	100%	7	14%	19	68%
Energy Tracking	30	93%	15	100%	15	87%	28	93%
Benchmarking Energy among Peers	30	53%	15	73%	15	33%	28	54%
Energy Audit	30	37%	15	53%	15	20%	28	36%
Electric Vehicles	30	0%	15	0%	15	0%	28	0%
Recycling in Common Areas	33	79%	17	76%	16	81%	31	77%
Recycling Bins in Guestrooms	33	21%	17	18%	16	25%	31	23%
≥ 75% G.rooms with Soap/Shampoo Dispensers	33	45%	17	6%	16	88%	31	48%
Waste and Recycling Tracking	33	61%	17	76%	16	44%	31	58%
Soap Donation	33	33%	17	53%	16	13%	31	29%
≥ 75% F&B with Reusable Food Service Ware	32	66%	16	75%	16	56%	31	65%
Food Waste Composting	33	18%	17	29%	16	6%	31	19%
Waste Audit	33	42%	17	59%	16	25%	31	42%
Food Waste Tracking	33	52%	17	88%	16	13%	31	48%
Food Waste Prevention Strategies	30	43%	15	80%	15	7%	29	45%
- Training	14	79%	12	75%			14	79%
- Adjusting portion size	14	93%	12	100%			14	93%
- Redesign menu	14	86%	12	83%			14	86%
- Change size of serving vessel	14	79%	12	83%			14	79%

DUULDDINEC	А	LL	FULL S	ERVICE	LTD SERVICE		CITY/U	JRBAN
PHILIPPINES	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Water Filtration/Hydration Station	32	31%	17	35%	15	27%	30	30%
Single-Use Plastics Eliminated	32	100%	17	100%	15	100%	30	100%
Waste Water Treatment	33	94%	17	88%	16	100%	31	94%
Food Donation	31	6%	16	13%	15	0%	29	7%
≥ 75% Low-Flow Toilets	32	81%	17	76%	15	87%	30	83%
≥ 75% Efficient Faucets	32	63%	17	71%	15	53%	30	63%
≥ 75% Efficient Showerheads	32	50%	17	76%	15	20%	30	50%
Water Tracking	33	100%	17	100%	16	100%	31	100%
Graywater Reuse	33	21%	17	41%	16	0%	31	16%
Low-flow Pre-Rinse Kitchen Spray Valves	33	42%	17	71%	16	13%	31	39%
Water Sub-Metering	33	64%	17	65%	16	63%	31	61%
- Fitness Facility	16	38%	12	50%			14	29%
- Food & Beverage Facilities	18	89%	12	92%	6	83%	16	88%
- Guestrooms	15	27%	11	36%			13	23%
- Landscaping/grounds keeping	15	53%	11	73%			13	46%
Rainwater Capture	32	25%	16	38%	16	13%	30	20%
Native or Drought-Tolerant Landscaping	32	31%	16	56%	16	6%	30	27%
Preventive Maintainance program	33	100%	17	100%	16	100%	31	100%
Written Environmental Policy(ies)	33	76%	17	82%	16	69%	31	77%
Green Practices Shared on Website	32	63%	16	63%	16	63%	30	63%
Green Champion	33	67%	17	65%	16	69%	31	68%
Green Team	33	70%	17	59%	16	81%	31	74%
Green Team Budget	33	67%	17	71%	16	63%	31	71%
Staff Training	33	73%	17	76%	16	69%	31	74%
Employee Volunteering Opportunities During Work Hours	33	97%	17	100%	16	94%	31	97%
Staff Recognition	33	82%	17	94%	16	69%	31	84%
Comment/Suggestion Process	33	42%	17	59%	16	25%	31	45%
>50% Green Cleaning Products	32	72%	17	76%	15	67%	30	73%
Green Initiatives Communication in Guestrooms	32	63%	17	71%	15	53%	30	63%
Involve Guest to Support Green Initiatives	31	81%	16	88%	15	73%	29	79%
Reward Program for Sustainable Guests	31	6%	16	6%	15	7%	29	7%
100% non-smoking	32	72%	17	65%	15	80%	30	77%
			-				1	
≥ 75% of non-smoking guestrooms	33	100% 36%	17	100% 41%	16	100%	31	100%
3rd-party Certification			17		16	31%	31	35%
Carbon Footprint Measured	32	47%	17	59%	15	33%	30	47%
Local Procurement Policy	32	100%	17	100%	15	100%	30	100%
Green Roof	33	21%	17	35%	16	6%	31	23%
Vegetable Garden	33	9%	17	18%	16	0%	31	10%
Beekeeping	33	0%	17	0%	16	0%	31	0%
Low-VOC or VOC-free paints in renovations/additions	33	61%	17	76%	16	44%	31	61%
HVAC Filters Routinely Checked	33	85%	17	100%	16	69%	31	84%
Vegetarian Menu Options	31	77%	16	100%	15	53%	29	76%
Sustainable Seafood Procurement	32	47%	17	76%	15	13%	30	47%
Evaluate suppliers in human rights areas	31	48%	17	59%	14	36%	29	52%
Procurement requirements	33	76%	17	82%	16	69%	31	74%
- Contractors	25	88%	14	79%	11	100%	23	87%
- Service Providers	24	96%	14	93%	10	100%	22	95%
- Suppliers	25	96%	14	93%	11	100%	23	96%
- Other	19	58%	10	40%	9	78%	19	58%

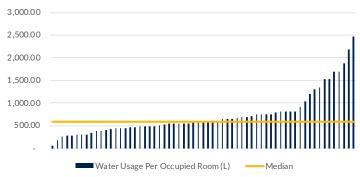
# **SINGAPORE**



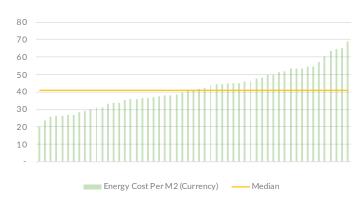
# Energy Usage Per Square Metre (kWh)

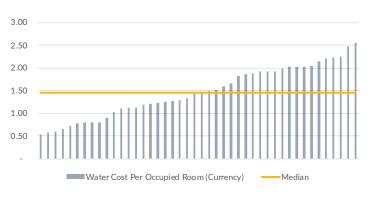


# Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





			ENE	RGY			WA	TER		GHG EM	ISSIONS
SINGAPO	DRE	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR
	Count	60	58	55	66	57	63	48	44	64	61
	High	516	187	69	23	6,530	2,462	13	3	290	75
	Mean	293	77	42	10	3,000	726	8	1	119	31
ALL	Q3	352	95	50	13	4,165	798	10	2	138	36
	Median	288	71	41	10	2,947	580	8	1	111	28
	Q1	228	45	34	7	1,863	457	6	1	86	18
	Low	118	17	20	3	137	61	2	1	46	7
	Count	51	49	49	57	47	52	43	39	55	52
	High	516	187	69	23	6,530	2,462	13	3	290	75
	Mean	296	85	42	11	3,096	793	8	2	121	34
FULL SERVICE	Q3	346	100	50	14	4,230	814	10	2	138	40
SERVICE	Median	291	80	41	10	2,947	631	8	2	111	30
	Q1	233	54	34	7	2,316	486	6	1	89	20
	Low	118	29	20	3	244	252	2	1	46	12
	Count	9	9	6	9	10	11	5	5	9	9
	High	494	70	65	14	4,598	738	10	2	195	28
	Mean	279	35	45	7	2,547	411	6	1	107	14
LIMITED SERVICE	Q3	349	35	51	8	3,990	573	9	1	138	14
SERVICE	Median	233	33	45	6	2,622	378	5	1	86	12
	Q1	197	25	37	4	1,237	291	4	1	78	10
	Low	137	17	27	3	137	61	2	1	54	7
	Count	48	46	44	54	44	48	38	35	52	49
	High	516	187	69	23	6,530	2,462	13	3	290	75
	Mean	307	78	44	10	3,367	789	8	1	126	31
CITY/ URBAN	Q3	370	98	50	13	4,477	811	10	2	142	37
ORDAN	Median	297	77	44	10	3,386	627	9	2	113	28
	Q1	237	46	36	7	2,525	474	7	1	89	18
	Low	131	20	24	3	244	252	2	1	52	8
	Count	8	8	7	8	10	12	6	7	8	8
	High	323	91	42	14	2,663	819	7	2	127	36
	Mean	199	57	32	10	1,405	460	5	1	78	22
SERVICED	Q3	218	70	40	13	1,840	599	7	2	86	28
APARTMENT	Median	203	56	27	10	1,278	482	5	1	80	22
	Q1	157	43	27	7	1,007	291	4	1	62	17
	Low	118	30	20	6	137	61	3	1	46	12

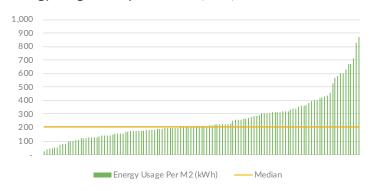
FULL SERVICE	E LTD SE	RVICE	CITY/URBAN		S.APAR	TMENT
Count Yes	Count	Yes	Count	Yes	Count	Yes
66 95%	6 16	100%	61	97%	17	94%
62 65%	6 15	47%	58	59%	15	60%
70 93%	6 16	69%	64	91%	18	78%
70 83%	6 16	31%	64	88%	18	22%
54 93%	6 5	80%	54	91%		
55 82%	6 5	60%	56	82%		
55 67%	6		55	71%		
57 81%	6 5	100%	56	80%		
52 44%	6 5	80%	53	49%		
46 41%	6		47	43%		
70 3%	5 16	0%	64	2%	18	6%
66 3%	5 16	0%	62	3%	16	0%
67 79%	6 16	75%	62	79%	17	71%
67 43%	6 16	19%	62	48%	17	6%
64 70%	6 15	60%	62	74%	13	31%
64 19%	6 14	14%	62	19%	12	8%
55 58%	6 13	15%	52	58%	12	17%
58 71%	6 15	33%	57	72%	12	17%
69 75%	6 16	75%	64	73%	17	82%
49 43%	% 10	10%	44	43%	12	17%
49 96%	% 11	64%	45	96%	12	67%
53 53%	% 10	60%	44	39%	16	94%
49 73%	% 10	60%	44	64%	12	92%
67 99%	% 16	88%	62	97%	17	94%
67 66%	% 16	25%	62	65%	17	35%
67 61%	% 16	31%	62	66%	17	18%
65 5%	5 16	6%	61	5%	16	0%
68 78%	% 16	38%	63	73%	18	56%
68 25%	% 16	6%	63	24%	18	11%
68 15%	% 16	19%	63	19%	18	0%
68 72%		38%	63	76%	18	22%
68 31%		6%	63	30%	18	17%
66 64%		31%	62	66%	17	24%
66 24%		19%	62	26%	17	6%
66 55%	% 16	19%	62	58%	17	6%
66 42%		7%	61	41%	17	12%
66 44%		0%	62	40%	17	12%
29 86%	6		25	88%		
29 100%			25	100%		
29 100%			25	100%		
29 90%			25	88%		
66 48%		20%	61	52%	17	12%
67 76%		47%	62	77%	17	47%
						24%
			-		-	0%
			-			83%
			+			61%
						67%
					_	94%
66 66 68 68 68	389 6% 799 769 719	38% 15 6% 15 79% 15 76% 16 71% 16	38%     15     7%       6%     15     0%       79%     15     60%       76%     16     63%       71%     16     50%	38%     15     7%     61       6%     15     0%     61       79%     15     60%     62       76%     16     63%     63       71%     16     50%     63	38%     15     7%     61     34%       6%     15     0%     61     7%       79%     15     60%     62     73%       76%     16     63%     63     78%       71%     16     50%     63     67%	38%     15     7%     61     34%     17       6%     15     0%     61     7%     17       79%     15     60%     62     73%     18       76%     16     63%     63     78%     18       71%     16     50%     63     67%     18

CINICADODE	ALL		FULL S	ERVICE	LTD SE	RVICE	CITY/URBAN		S.APARTMENT	
SINGAPORE	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Graywater Reuse	84	7%	68	7%	16	6%	63	10%	18	0%
Low-flow Pre-Rinse Kitchen Spray Valves	83	53%	67	57%	16	38%	62	61%	18	22%
Water Sub-Metering	84	75%	68	76%	16	69%	63	81%	18	50%
- Fitness Facility	64	30%	53	36%	11	0%	50	32%	11	9%
- Food & Beverage Facilities	64	83%	53	89%	11	55%	51	94%	10	20%
- Guestrooms	65	62%	54	65%	11	45%	51	59%	11	82%
- Landscaping/grounds keeping	64	44%	53	47%	11	27%	51	47%	10	30%
Rainwater Capture	82	7%	67	9%	15	0%	61	10%	18	0%
Native or Drought-Tolerant Landscaping	78	18%	63	21%	15	7%	58	22%	17	0%
Preventive Maintainance program	84	99%	68	99%	16	100%	63	98%	18	100%
Written Environmental Policy(ies)	83	63%	67	70%	16	31%	62	71%	18	28%
Green Practices Shared on Website	82	48%	67	54%	15	20%	61	52%	18	22%
Green Champion	84	60%	68	69%	16	19%	63	67%	18	28%
Green Team	82	61%	67	67%	15	33%	63	67%	16	31%
Green Team Budget	81	47%	66	52%	15	27%	62	50%	16	25%
Staff Training	82	60%	67	66%	15	33%	63	63%	16	38%
Employee Volunteering Opportunities During Work Hours	82	68%	66	77%	16	31%	62	73%	17	47%
Staff Recognition	82	54%	66	55%	16	50%	62	53%	17	47%
Comment/Suggestion Process	82	52%	66	59%	16	25%	62	58%	17	24%
>50% Green Cleaning Products	82	55%	66	59%	16	38%	62	58%	17	35%
Green Initiatives Communication in Guestrooms	81	75%	66	77%	15	67%	62	79%	16	63%
Involve Guest to Support Green Initiatives	81	41%	66	48%	15	7%	62	47%	16	25%
Reward Program for Sustainable Guests	81	11%	66	12%	15	7%	62	13%	16	0%
100% non-smoking	83	60%	67	63%	16	50%	62	66%	18	33%
≥ 75% of non-smoking guestrooms	82	80%	66	83%	16	69%	61	89%	18	61%
3rd-party Certification	82	35%	66	41%	16	13%	62	42%	17	0%
Carbon Footprint Measured	83	41%	67	45%	16	25%	62	48%	18	6%
Local Procurement Policy	83	64%	67	66%	16	56%	62	68%	18	44%
Green Roof	84	52%	68	54%	16	44%	64	56%	17	41%
Vegetable Garden	84	19%	68	22%	16	6%	64	22%	17	12%
Beekeeping	84	4%	68	4%	16	0%	64	5%	17	0%
Low-VOC or VOC-free paints in renovations/additions	83	55%	68	60%	15	33%	63	60%	17	35%
HVAC Filters Routinely Checked	83	88%	68	94%	15	60%	64	91%	16	75%
Vegetarian Menu Options	82	72%	67	81%	15	33%	63	86%	16	19%
Sustainable Seafood Procurement	77	39%	62	42%	15	27%	59	46%	15	0%
Evaluate suppliers in human rights areas	76	37%	61	39%	15	27%	58	48%	15	0%
Procurement requirements	83	47%	67	48%	16	44%	62	52%	18	22%
- Contractors	71	89%	61	89%	10	90%	64	89%		
- Service Providers	40	85%	34	85%	6	83%	34	85%		
- Suppliers	71	99%	61	98%	10	100%	64	98%		
- Other	38	66%	33	64%	5	80%	33	64%		

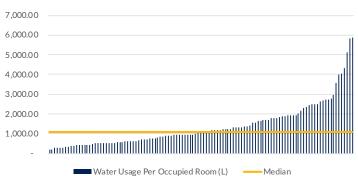
# **THAILAND**



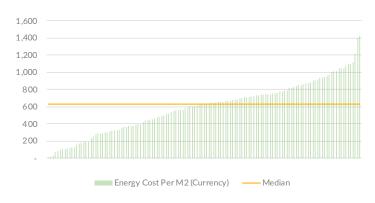
# Energy Usage Per Square Metre (kWh)

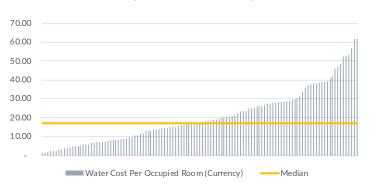


# Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





			ENE	RGY			WA	TER		GHG EM	IISSIONS
THAILAN	ND	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR
	Count	121	130	119	113	100	113	92	117	121	131
	High	867	625	957	424	7,945	5,868	128	62	335	269
	Mean	259	142	534	222	2,748	1,392	48	20	106	58
ALL	Q3	315	171	732	295	3,381	1,778	58	28	128	69
	Median	209	101	597	217	2,592	1,077	43	17	96	43
	Q1	155	57	331	154	1,662	604	28	9	69	25
	Low	23	18	13	58	233	189	11	1	11	8
	Count	105	110	101	89	86	92	79	95	105	110
	High	867	625	957	424	7,945	5,868	124	62	335	269
	Mean	263	153	539	237	2,833	1,573	48	21	107	62
FULL	Q3	320	182	736	319	3,405	1,916	57	29	137	75
SERVICE	Median	213	116	597	228	2,850	1,219	44	18	98	48
	Q1	167	67	338	164	1,786	842	28	8	69	30
	Low	23	35	20	62	233	275	11	1	11	16
	Count	16	20	18	24	14	21	13	22	16	21
	High	668	490	945	408	4,920	1,348	128	52	316	203
	Mean	233	79	507	169	2,222	597	46	18	103	38
LIMITED	Q3	261	61	677	218	2,314	637	72	20	121	33
SERVICE	Median	200	44	572	157	1,788	538	37	17	92	21
	Q1	136	27	308	105	1,531	431	21	12	59	13
	Low	99	18	13	58	588	189	11	3	47	8
	Count	58	63	57	48	41	46	38	47	58	64
	High	867	625	957	412	7,781	5,868	128	62	335	269
	Mean	276	185	498	246	2,833	1,900	55	22	109	74
RESORT	Q3	352	240	712	327	3,498	2,493	74	29	143	93
RESORT	Median	209	128	554	232	2,575	1,498	44	20	95	51
	Q1	154	77	292	173	1,667	914	27	8	57	34
	Low	23	34	34	86	410	428	13	1	11	15
	Count	42	42	39	41	38	420	38	44	42	42
	High	455	271	945	424	7,945	3,560	97	62	211	123
	Mean	240	100	622	206	2,978	1,173	46	20	105	43
CITY/	Q3	305	142	785	251	3,458	1,664	56	27	125	57
URBAN	Median	226	80	636	184	3,149	952	49	16	104	34
	Q1	176	46	466	142	2,030	540	30	9	78	22
	Low	99	18	20	58	742	189	11	3	47	8
	Count	5	6	7	6	6	6	6	8	5	6
	High	672	190	917	408	5,383	2,380	52	39	223	82
	Mean	308	96	538	220	2,626	1,014	34	23	121	39
CONVENTION/ CONFERENCE						· ·			35		
CENTER	Q3 Median	260 221	132 82	783 656	237	3,084 2,470	1,064 783	40 36	22	112 101	45 35
		198		257				25	12	90	
	Q1	-	51		162	1,784	616				24
	Low	191	32	111	107	588	419	18	7	78	15
	Count	11	15	724	15	10	13	8	13	11	15
	High	424	412	736	344	4,335	2,046	55	21	160	132
SERVICED	Mean	238	104	448	189	2,135	788	33	12	96	40
APARTMENT	Q3	354	120	671	259	3,257	1,117	51	17	124	48
	Median	194	71	446	164	1,709	722	27	12	91	33
	Q1	140	58	234	109	1,270	282	20	6	58	22
	Low	121	26	122	62	233	222	12	2	47	12

THAHAND	А	LL	FULL S	ERVICE	LTD SERVICE		RES	ORT	CITY/URBAN		CON/CONF		S. APARTMENT	
THAILAND	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	162	88%	132	89%	30	83%	75	93%	54	85%	9	67%	17	88%
Opt-Out Linen Reuse	143	69%	118	70%	25	60%	70	61%	46	85%	6	67%	15	53%
≥ 75% LED Lighting	166	92%	136	92%	30	90%	78	94%	54	93%	8	88%	18	89%
Variable Frequency Drives	164	63%	135	64%	29	62%	77	56%	54	78%	9	67%	16	50%
- Main Air Handling Units	99	73%	85	73%	14	71%	45	80%	36	67%	6	67%	8	75%
- Kitchen Hoods	94	48%	80	49%	14	43%	43	56%	35	40%	6	50%	6	50%
- Elevators	101	60%	84	56%	17	82%	43	56%	39	59%	6	67%	8	88%
- Water Pumps	97	87%	82	87%	15	87%	44	91%	37	81%	6	67%	6	100%
- Refrigeration Units	94	39%	80	38%	14	50%	43	47%	34	32%	6	50%	7	29%
- Other	82	56%	70	56%	12	58%	35	63%	32	47%	6	67%	5	60%
Renewable Power Generated?	165	30%	136	29%	29	38%	78	31%	54	28%	9	11%	17	47%
- Wind Power	50	22%	37	19%	13	31%	22	18%	17	18%			7	29%
- Solar PV	50	38%	38	34%	12	50%	23	43%	17	29%			6	33%
- Heat Pump	50	84%	38	87%	12	75%	24	83%	16	94%			7	71%
- Solar Thermal	50	24%	37	16%	13	46%	22	18%	17	18%			7	29%
- Geothermal	50	16%	37	11%	13	31%	22	14%	17	12%			7	14%
- Hydroelectric	50	14%	37	11%	13	23%	22	9%	17	12%			7	14%
- Cogeneration	50	18%	37	16%	13	23%	22	18%	17	12%			7	14%
- Other	47	36%	35	37%	12	33%	22	41%	16	31%			5	20%
Carbon Offsets or Renewable Energy Certificate Purchase	154	16%	126	17%	28	11%	70	13%	52	17%	9	11%	17	24%
≥ 75% Guestrooms Have Digital Thermostats	157	73%	129	74%	28	64%	73	71%	52	77%	9	67%	17	59%
≥ 75% Guestrooms Have Ocupancy Sensors	152	36%	126	37%	26	27%	69	35%	52	37%	9	44%	16	31%
≥ 75% Meeting Rooms Have Digital Thermostats	151	64%	125	66%	26	50%	71	56%	50	72%	9	78%	15	60%
≥ 75% Meeting Rooms Have Occupancy Sensors	148	14%	124	15%	24	8%	69	17%	50	8%	8	25%	15	13%
High Efficiency Boilers (>85% efficiency)	127	54%	107	57%	20	35%	57	61%	45	51%	7	29%	14	50%
High Efficient Chillers (>0.5 kW/ton)	135	53%	112	55%	23	39%	60	48%	49	59%	8	63%	14	50%
Energy Sub-metering	162	55%	136	58%	26	38%	78	55%	53	51%	8	38%	16	69%
- Fitness Facility	82	49%	73	49%	9	44%	42	50%	22	41%			11	55%
- Food & Beverage Facilities	85	69%	75	69%	10	70%	43	67%	22	73%			12	75%
- Guestrooms	85	68%	74	68%	11	73%	44	68%	21	62%			12	67%
- Public Spaces	88	83%	78	82%	10	90%	44	77%	24	92%			12	83%
Energy Tracking	158	99%	129	99%	29	97%	74	97%	53	100%	8	100%	17	100%
Benchmarking Energy among Peers	157	80%	128	80%	29	83%	73	79%	53	79%	8	88%	17	82%
Energy Audit	157	73%	128	75%	29	66%	73	79%	53	64%	8	50%	17	82%
Electric Vehicles	154	32%	126	39%	28	0%	71	38%	52	25%	9	22%	16	31%
Recycling in Common Areas	163	87%	131	85%	32	94%	76	91%	53	87%	9	78%	17	71%
Recycling Bins in Guestrooms	159	24%	128	23%	31	29%	74	26%	51	14%	9	33%	17	29%
≥ 75% Guestrooms with Bulk Soap/Shampoo Dispensers	160	39%	129	36%	31	48%	74	49%	52	35%	9	22%	17	24%
Waste and Recycling Tracking	160	64%	129	69%	31	45%	75	69%	51	69%	9	56%	17	47%
Soap Donation	158	34%	127	36%	31	26%	74	26%	50	36%	9	89%	17	41%
≥ 75% F&B with Reusable Food Service Ware	158	74%	127	74%	31	74%	74	80%	50	76%	9	89%	17	29%
Food Waste Composting	159	42%	128	44%	31	32%	74	43%	51	43%	9	44%	17	41%
Waste Audit	160	58%	129	62%	31	42%	75	63%	51	57%	9	56%	17	47%
Food Waste Tracking	154	65%	122	70%	32	47%	71	65%	50	74%	9	78%	16	31%
Food Waste Prevention Strategies	150	61%	119	66%	31	42%	70	57%	48	71%	8	75%	16	50%
- Training	100	91%	85	89%	15	100%	44	86%	37	92%	7	100%	8	100%
- Adjusting portion size	100	95%	85	95%	15	93%	44	93%	37	97%	7	100%	8	88%
- Redesign menu	100	95%	85	95%	15	93%	44	98%	37	95%	7	86%	8	88%
- Change size of serving vessel	99	91%	84	89%	15	100%	44	93%	37	86%	7	100%	7	86%
Water Filtration/Hydration Station	149	53%	117	55%	32	47%	69	52%	50	56%	8	50%	16	50%

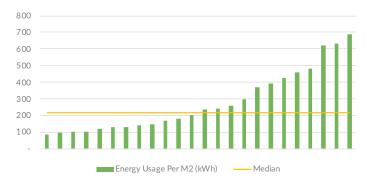
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THAHAND	А	LL	FULL S	ERVICE	LTD SERVICE		RES	ORT	CITY/URBAN		CON/CONF		S. APARTMENT	
THAILAND	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Single-Use Plastics Eliminated	149	89%	118	92%	31	77%	70	89%	50	90%	8	88%	15	80%
Waste Water Treatment	151	87%	120	89%	31	77%	71	85%	51	86%	8	100%	15	87%
Food Donation	152	36%	121	42%	31	13%	70	29%	49	47%	9	67%	16	31%
≥ 75% Low-Flow Toilets	160	72%	128	73%	32	69%	75	75%	53	74%	9	89%	17	53%
≥ 75% Efficient Faucets	159	66%	127	66%	32	66%	75	67%	52	75%	9	56%	17	41%
≥ 75% Efficient Showerheads	164	60%	132	60%	32	63%	79	57%	53	74%	9	44%	17	47%
Water Tracking	160	99%	128	98%	32	100%	75	97%	53	100%	9	100%	17	100%
Graywater Reuse	160	43%	128	47%	32	28%	75	69%	53	21%	9	33%	17	12%
Low-flow Pre-Rinse Kitchen Spray Valves	159	64%	127	62%	32	69%	75	67%	52	62%	9	78%	17	47%
Water Sub-Metering	158	51%	126	52%	32	44%	75	60%	51	37%	9	67%	17	41%
- Fitness Facility	84	37%	71	37%	13	38%	47	43%	20	20%	6	50%	8	25%
- Food & Beverage Facilities	82	71%	69	68%	13	85%	45	78%	20	45%	6	100%	8	63%
- Guestrooms	85	66%	71	65%	14	71%	48	69%	20	40%	6	83%	8	88%
- Landscaping/grounds keeping	82	66%	67	64%	15	73%	47	66%	19	58%	6	100%	7	57%
Rainwater Capture	151	22%	121	26%	30	7%	71	38%	51	6%	8	0%	15	13%
Native or Drought-Tolerant Landscaping	148	45%	118	48%	30	30%	71	61%	49	31%	8	25%	14	29%
Preventive Maintainance program	164	99%	132	98%	32	100%	77	99%	53	100%	9	100%	17	100%
Written Environmental Policy(ies)	164	90%	132	89%	32	91%	77	88%	53	92%	9	100%	17	94%
Green Practices Shared on Website	161	70%	129	74%	32	56%	75	77%	52	62%	9	100%	17	59%
Green Champion	163	68%	131	72%	32	53%	76	67%	53	72%	9	100%	17	47%
Green Team	163	70%	131	74%	32	53%	76	71%	53	70%	9	89%	17	53%
Green Team Budget	154	66%	123	67%	31	58%	72	68%	50	62%	9	89%	15	60%
Staff Training	162	78%	130	80%	32	72%	76	80%	52	75%	9	89%	17	71%
Employee Volunteering Opportunities During Work Hours	161	86%	129	88%	32	75%	76	87%	51	84%	9	100%	17	76%
Staff Recognition	161	68%	129	73%	32	50%	76	68%	51	67%	9	78%	17	65%
Comment/Suggestion Process	160	79%	129	78%	31	87%	76	80%	51	82%	8	63%	17	76%
>50% Green Cleaning Products	158	72%	127	72%	31	74%	76	72%	50	74%	7	71%	17	65%
Green Initiatives Communication in Guestrooms	151	83%	120	83%	31	81%	70	87%	50	84%	7	86%	16	63%
Involve Guest to Support Green Initiatives	151	80%		79%	31	84%	-	83%	50		7	86%		69%
Reward Program for Sustainable Guests	152	26%	121	23%	31	42%	71 71	27%	49	78% 18%	7	43%	16 16	38%
-	151	45%		39%		69%	76			49%	9	43%	17	59%
100% non-smoking			127		32			37%	51				-	
≥ 75% of non-smoking guestrooms	160	90%	128	91%	32	88%	76	88%	52	92%	9	78%	17	94%
3rd-party Certification	159	56%	127	57%	32	50%	76	62%	51	53%	9	78%	17	24%
Carbon Footprint Measured	159	50%	127	50%	32	53%	76	51%	51	47%	9	56%	17	53%
Local Procurement Policy	159	83%	127	83%	32	81%	76	80%	51	92%	9	78%	17	71%
Green Roof	157	34%	125	34%	32	38%	75	21%	51	43%	8	38%	17	59%
Vegetable Garden	158	12%	126	12%	32	13%	75	4%	52	17%	8	38%	17	18%
Beekeeping	158	2%	126	2%	32	0%	75	1%	52	2%	8	0%	17	6%
Low-VOC or VOC-free paints in renovations/additions	149	52%	117	58%	32	28%	69	49%	51	61%	8	38%	15	47%
HVAC Filters Routinely Checked	152	88%	120	90%	32	78%	71	86%	51	94%	8	63%	16	94%
Vegetarian Menu Options	149	91%	117	96%	32	72%	71	96%	49	88%	8	100%	15	73%
Sustainable Seafood Procurement	147	65%	115	68%	32	56%	70	63%	48	73%	8	88%	15	47%
Evaluate suppliers in human rights areas	146	67%	114	69%	32	59%	69	71%	48	60%	8	88%	15	73%
Procurement requirements	155	67%	123	67%	32	66%	76	67%	48	69%	8	88%	17	53%
- Contractors	121	88%	97	88%	24	92%	61	90%	39	87%	8	75%	9	89%
- Service Providers	94	87%	79	89%	15	80%	48	94%	28	82%	6	67%	9	89%
- Suppliers	121	97%	97	97%	24	96%	61	95%	39	100%	8	88%	9	100%
- Other	80	70%	69	72%	11	55%	43	72%	24	63%	5	80%	6	67%

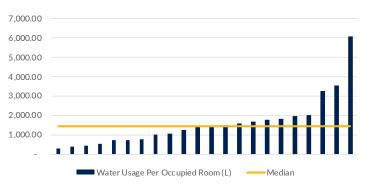
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# VIETNAM

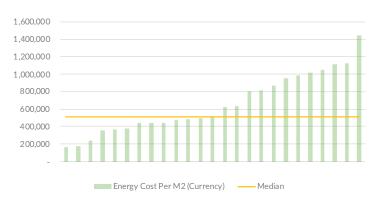
# Energy Usage Per Square Metre (kWh)

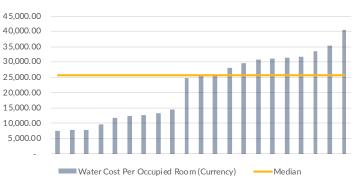


# Water Usage Per Occupied Room (Litres)



# **Energy Cost Per Square Metre (Currency)**





			ENE	RGY			WA	TER		GHG EMISSIONS		
VIETNA	М	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	Cost PSM	Cost POR	Usage PSM	Usage POR	
	Count	24	33	25	27	22	22	21	21	24	33	
	High	686	427	1,439,575	458,910	7,345	6,090	115,664	40,406	219	120	
	Mean	279	151	656,079	247,206	3,098	1,611	51,890	22,096	94	49	
ALL	Q3	399	186	954,157	306,661	4,479	1,808	80,440	31,043	140	63	
	Median	218	121	508,274	211,225	2,331	1,430	45,657	25,636	77	42	
	Q1	130	78	438,372	158,972	1,468	759	24,056	12,288	47	27	
	Low	85	42	166,138	114,609	892	322	15,154	7,303	28	15	
	Count	23	31	24	26	21	21	20	20	23	31	
	High	686	427	1,439,575	458,910	7,345	6,090	115,664	40,406	219	120	
	Mean	271	157	642,418	251,553	3,062	1,662	51,807	22,835	91	51	
FULL SERVICE	Q3	381	191	885,866	307,121	4,690	1,816	81,086	31,139	131	64	
	Median	202	128	503,388	214,157	2,293	1,435	44,217	25,718	72	44	
	Q1	130	80	422,418	165,374	1,453	779	23,709	12,613	46	27	
	Low	85	42	166,138	114,609	892	322	15,154	7,650	28	15	
	Count	10	15	9	10	9	9	9	8	10	15	
	High	623	392	1,439,575	458,910	6,758	6,090	115,664	35,243	219	117	
	Mean	235	171	676,678	303,420	2,746	2,309	50,645	23,345	81	56	
RESORT	Q3	364	216	983,956	416,881	3,846	3,268	80,440	31,655	131	76	
	Median	130	167	447,062	318,843	1,510	1,990	33,218	27,680	46	53	
	Q1	103	80	364,543	194,906	1,304	998	17,151	12,440	33	28	
	Low	85	50	166,138	134,189	892	525	15,154	7,303	28	18	
	Count	10	13	12	13	10	10	9	10	10	13	
	High	686	427	1,125,665	316,231	7,345	1,816	84,183	40,406	199	120	
	Mean	359	158	741,252	229,535	3,798	1,225	58,612	22,842	118	50	
CITY/ URBAN	Q3	440	196	902,924	301,965	5,089	1,634	83,026	30,939	153	55	
	Median	315	128	717,240	211,131	2,925	1,430	46,748	25,718	106	45	
	Q1	235	81	494,691	174,487	2,312	852	42,778	12,851	82	27	
	Low	143	58	438,372	149,750	991	322	24,056	7,815	51	20	

VIETNIANA	A	LL	FULL S	ERVICE	RES	ORT	CITY/L	JRBAN
VIETNAM	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Towel Reuse Program?	32	97%	30	100%	13	100%	13	100%
Opt-Out Linen Reuse	31	68%	30	70%	13	77%	13	62%
≥ 75% LED Lighting	32	91%	30	93%	13	92%	13	100%
Variable Frequency Drives	31	71%	29	72%	13	77%	13	77%
- Main Air Handling Units	22	86%	22	86%	9	100%	10	80%
- Kitchen Hoods	22	64%	22	64%	9	44%	10	80%
- Elevators	23	74%	23	74%	10	60%	10	90%
- Water Pumps	23	96%	22	95%	10	100%	10	100%
- Refrigeration Units	23	78%	22	77%	10	70%	10	80%
- Other	18	67%	18	67%	7	57%	9	78%
Renewable Power Generated?	32	47%	30	47%	13	38%	13	38%
- Wind Power	13	23%	13	23%			5	20%
- Solar PV	14	29%	13	23%			5	20%
- Heat Pump	13	77%	13	77%			5	80%
- Solar Thermal	13	46%	13	46%			5	60%
- Geothermal	13	23%	13	23%			5	20%
- Hydroelectric	13	23%	13	23%			5	20%
- Cogeneration	13	23%	13	23%			5	20%
- Other	13	46%	13	46%			5	40%
Carbon Offsets or Renewable Energy Certificate Purchase	32	9%	29	10%	13	15%	13	8%
≥ 75% Guestrooms Have Digital Thermostats	32	78%	29	83%	13	77%	13	85%
≥ 75% Guestrooms Have Ocupancy Sensors	32	34%	29	31%	13	31%	13	31%
≥ 75% Meeting Rooms Have Digital Thermostats	32	84%	29	86%	13	85%	13	92%
≥ 75% Meeting Rooms Have Occupancy Sensors	32	31%	29	28%	13	38%	13	23%
High Efficiency Boilers (>85% efficiency)	29	62%	26	65%	12	83%	11	55%
High Efficient Chillers (>0.5 kW/ton)	31	74%	28	79%	14	86%	11	73%
Energy Sub-metering	31	71%	30	70%	13	85%	13	62%
- Fitness Facility	21	38%	20	35%	11	45%	8	25%
- Food & Beverage Facilities	22	86%	21	86%	11	82%	8	100%
- Guestrooms	22	82%	21	81%	11	100%	8	50%
- Public Spaces	22	77%	21	76%	11	91%	8	63%
Energy Tracking	33	100%	30	100%	14	100%	13	100%
Benchmarking Energy among Peers	32	56%	29	59%	13	77%	13	54%
Energy Audit	33	70%	30	70%	14	71%	13	85%
Electric Vehicles	31	29%	28	32%	13	69%	12	0%
Recycling in Common Areas	33	73%	30	70%	14	64%	13	77%
Recycling Bins in Guestrooms	30	47%	27	44%	13	38%	11	45%
≥ 75% G.rooms with Soap/Shampoo Dispensers	30	23%	27	26%	14	50%	10	0%
Waste and Recycling Tracking	31	65%	28	64%	14	79%	11	45%
Soap Donation	30	50%	27	48%	12	42%	12	75%
≥ 75% F&B with Reusable Food Service Ware	28	64%	25	68%	12	75%	11	55%
Food Waste Composting	29	45%	26	42%	13	54%	11	36%
Waste Audit	30	40%	27	41%	13	62%	11	18%
Food Waste Tracking	29	72%	26	77%	13	85%	11	55%
Food Waste Prevention Strategies	27	67%	24	67%	12	75%	10	50%
- Training	35	97%	31	97%	18	100%	13	100%
- Adjusting portion size	35	100%	31	100%	18	100%	13	100%
	35	100%	31	100%	18	100%	13	100%
- Redesign menu			11		10		1.)	

VIETNIANA	A	ււ	FULL SERVICE		RESORT		CITY/URBAN	
VIETNAM	Count	Yes	Count	Yes	Count	Yes	Count	Yes
Water Filtration/Hydration Station	29	45%	26	46%	13	38%	11	36%
Single-Use Plastics Eliminated	29	79%	26	81%	13	85%	11	73%
Waste Water Treatment	31	87%	28	93%	13	92%	13	85%
Food Donation	30	50%	27	52%	13	62%	12	33%
≥ 75% Low-Flow Toilets	33	73%	30	77%	14	79%	13	69%
≥ 75% Efficient Faucets	31	61%	28	64%	14	57%	12	58%
≥ 75% Efficient Showerheads	31	61%	28	64%	14	57%	12	58%
Water Tracking	33	100%	30	100%	14	100%	13	100%
Graywater Reuse	33	30%	30	30%	14	57%	13	8%
Low-flow Pre-Rinse Kitchen Spray Valves	33	58%	30	57%	14	57%	13	62%
Water Sub-Metering	33	64%	30	60%	14	79%	13	54%
- Fitness Facility	22	50%	19	42%	12	58%	7	29%
- Food & Beverage Facilities	22	82%	19	79%	12	83%	7	86%
- Guestrooms	22	82%	19	79%	12	100%	7	43%
- Landscaping/grounds keeping	22	64%	19	58%	12	75%	7	43%
Rainwater Capture	31	19%	28	18%	13	31%	13	8%
Native or Drought-Tolerant Landscaping	30	40%	27	41%	13	62%	12	8%
Preventive Maintainance program	33	97%	30	97%	14	100%	13	100%
	33	91%	30	90%		93%		92%
Written Environmental Policy(ies)	-				14		13	
Green Practices Shared on Website	30	60%	27	59%	13	77%	11	55%
Green Champion	33	82%	30	83%	14	93%	13	85%
Green Team	33	64%	30	63%	14	79%	13	54%
Green Team Budget	32	69%	29	69%	13	85%	13	54%
Staff Training	33	76%	30	73%	14	93%	13	62%
Employee Volunteering Opportunities During Work Hours	33	82%	30	80%	14	93%	13	77%
Staff Recognition	32	53%	29	52%	14	71%	12	42%
Comment/Suggestion Process	32	75%	29	76%	14	93%	12	67%
>50% Green Cleaning Products	31	77%	28	79%	14	86%	11	73%
Green Initiatives Communication in Guestrooms	30	80%	27	81%	13	92%	11	82%
Involve Guest to Support Green Initiatives	30	80%	27	78%	13	85%	12	67%
Reward Program for Sustainable Guests	29	21%	26	15%	13	31%	11	18%
100% non-smoking	32	41%	29	38%	14	50%	12	50%
≥ 75% of non-smoking guestrooms	31	74%	28	75%	14	86%	11	73%
3rd-party Certification	30	40%	27	41%	14	50%	10	30%
Carbon Footprint Measured	30	40%	27	44%	14	36%	10	50%
Local Procurement Policy	30	80%	27	81%	13	92%	11	73%
Green Roof	33	52%	30	50%	14	71%	13	31%
Vegetable Garden	33	18%	30	13%	14	14%	13	15%
Beekeeping	32	6%	29	7%	14	7%	12	8%
Low-VOC or VOC-free paints in renovations/additions	30	50%	27	52%	13	62%	12	50%
HVAC Filters Routinely Checked	30	93%	27	96%	13	92%	12	100%
Vegetarian Menu Options	31	94%	28	96%	13	92%	13	92%
Sustainable Seafood Procurement	30	73%	27	78%	13	85%	12	67%
Evaluate suppliers in human rights areas	28	46%	25	40%	12	67%	11	18%
Procurement requirements	30	57%	27	56%	13	69%	11	45%
- Contractors	24	100%	21	100%	15	100%	6	100%
- Service Providers	14	100%	13	100%	8	100%		
- Suppliers	24	100%	21	100%	15	100%	6	100%
- Other	14	64%	13	62%	8	75%		100/0



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