

TRAVEL LIFE 2017

MANAGEMENT OF NATURAL RESOURCES AND ENERGY SOURCES



WATER

In the year 2016 the aim of reaching 4% savings as compared to the preceding year was in fact **passed**, having reached savings of **5.56%**.

Indeed, night/guest consumption was of 129.6 litres, with total savings of over **478,903** litres compared to 2015.

Determining factors in reaching this objective were:

- Guest numbers increase
- The installing of faucet aerators on taps
- The completing of sub-irrigation system;
- The optimization of consumption of dishwashing equipment

There is a further 5% reduction of consumption for 2017 confirming the previous year trend.

For 2018, the aim is a further reduction of 3% as compared to the current year.

Ongoing, this result will continue to be reduced owing to:

- greater efficiency of water consumption as experimented on 15% of the rooms, through the reuse of purified water used for sanitation;

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APULIA RESORT

- Less consumption required by the green area which has now become mature;
- the use of probes for the detection of soil moisture allowing to irrigate only in case of real necessity, and in any case during night hours;
- the use of rainwater stored in the winter months to be used for irrigation and fire-fighting;
- customers raised awareness to the reduction of laundering requirements.

MANAGEMENT OF NATURAL RESOURCES AND ENERGY SOURCES CHART

Resource	% Reduction 2016	2016 LITRES PER GUEST-PER-NIGHT	% Reduction 2017	2017 LITRES PER GUEST-PER-NIGHT	% Forecasted Reduction 2018	2018 LITRES PER GUEST-PER-NIGHT
WATER	- 5.56%	129.62	- 5%	122.74	- 3%	119

CONSUMPTION IMPROVEMENT PROGRAMME water resource

Objective	% Substitution 2017	% SUBSTITUTION 2018
Reuse of purified water for sanitation	0%	+15% total 15%



ELECTRIC POWER

In 2016, consumption of electric power was reduced to 27.5 Kw/h per guest-per-night, a reduction of 4.87% compared to 2015.

The reasons are to be found in the energy efficiency policy sought by the management of Vivosa Apulia Resort. Actually, malfunctioning heat pumps, which were causing dispersion, have been adjusted to operate efficiently.

In 2017, the consumption of electric power was reduced by 5% as compared to the previous year mainly owing to:

- the effects of the improvement programme which in 2016 saw the substitution of a further 1,000 lightbulbs with LED technology, reaching a total of 1,500 lightbulbs and covering up to 60% of the indoor lighting system;
- A further 20% each of both internal and external lighting is being replaced in the course of the year.

For the year 2018, a further reduction of at least 1.5% is foreseen as compared to the present year.

Said objective will be reached through the replacement of the remaining traditional lightbulbs with led ones accomplishing the substitution of the totality of internal lighting.

Moreover, in 2016, 35% of the lighting points in the carpark area were fitted with smart “twilight” sensor devices, which adapt in real time to the natural surrounding luminosity.

For the year 2017, further devices will be deployed throughout the carpark covering an additional 20% of the lighting points.

Further replacements of the carpark lighting system will continue in 2018 in order to reach 80% of the total lighting points.

**MANAGEMENT OF NATURAL RESOURCES AND ENERGY SOURCES
CHART**

Resource	Reduction % 2016	Year 2016 KWh/PER GUEST-NIGHT	Reduction % 2017	Year 2017 KWh/PER GUEST-NIGHT	Forecasted Reduction % 2018	Year 2018 KWh/PER GUEST-NIGHT
ELECTRIC POWER	-4,87%	27,5	-5%	26,1	-1,5%	25,7

CONSUMPTION IMPROVEMENT PROGRAMME ENERGY SOURCES

Objective	% SUBSTITUTION 2017	% SUBSTITUTION 2018
LED technology lightbulb substitution	20% internal+ 20% external	+20% total 100%
Deployment of smart lighting devices in the carparks	20%	+25% total 80%



WASTE MANAGEMENT

In 2016 waste produced by the activities of Vivosa Apulia Resort were reduced by **12%** compared to 2015.

The guest-per-night waste production was at 2.29 Kg in 2015, which was reduced to 2 Kg in 2016.

Said results were achieved owing to the reduction of unsorted waste to be sent to the waste disposal site.

One of the managerial objectives of the firm has been the statistical study of consumption, the purchasing of foodstuffs that are able to reduce waste, and the strengthening of the recycling service. Each operator has contributed in an excellent manner by engaging in recycling practices that are more informed and punctual.

The year 2017 is seeing a further reduction of waste in terms of guest-per-night by 12% as compared to the previous year.

In 2018 our objective is a further reduction of 5% as compared to the previous year.

WASTE MANAGEMENT CHART

parameter	% Reduction 2016	2016 KG PER NIGHT- PER-GUEST	% Reduction 2017	2017 KG PER NIGHT-PER- GUEST	% Forecasted reduction 2018	2018 KG PER NIGHT- PER-GUEST
WASTE PRODUCED	-12%	2	-12%	1.77	- 5%	1.68



CO₂ EMISSIONS

In the year 2016 Vivosa Apulia Resort has been intensely engaged in actively reducing CO₂ emissions deriving from its own activities.

The factors which have contributed to the achievement of an excellent result fundamentally are:

- reduction of energy consumption;
- increase of suppliers used operating within the immediate vicinity of the resort;

The average CO₂ emission value for 2016 was equal to 17.80 Kg per night-per-guest.

The reduction of CO₂ for 2017 has been estimated at 15.70 Kg per single night-per-guest, with a change of 12% as compared to 2016.

Management's commitment for 2018 will be to maintain this trend of reduction of the average value of CO₂ emissions as compared to the previous year.

The objective is to select energy suppliers who are able to guarantee that no less than 20% of their energy produced comes from renewable sources.

CO₂ EMISSIONS CHART

PARAMETER	2016 KG PER NIGHT-PER-GUEST	% Reduction 2017	2017 KG PER NIGHT-PER-GUEST	% Forecasted Reduction 2018	ANNO 2017 KG /NOTTE OSPITE
CO₂ EMISSION	17.8	- 12%	15.66	- 12%	13,78

CO₂ EMISSIONS REDUCTION IMPROVEMENT PROGRAMME

Objective	2017 %	2018 %
0 Mile supplier selection	15%	+20% total 35%
Electric power from renewable sources	---	20%