

### Potential Savings Four season Hotel

Area	Annual Energy saving (KWh/year)	CO2 emission Reduction (Ton/year)	Cost Saving(JD/y)	Investment Required (JD)	Pay Back Period (Year)
<b>chapter 5</b>					
Replacing of halogen lamps	149,796	120	9,437	1387	0.1
Replacing of Incandescent lamps	293,054	234	18,462	15845.5	0.31
Use of occupancy sensors at Ball Rooms	98,550	79	6,200	Nill	Immediate
<b>chapter 6</b>					
Insulating the Uninsulated Surfaces	133990	355	3696	1364	0.3
Waste Heat Recovery	109865	291	2450	16300	6.7
Stopping the Standby Steam Boiler Completely	73094	194	2300	Nill	Immediate
Tuning-Up Hot Water Boiler NO.3	15695	42	490	Nill	Immediate
<b>chapter 7</b>					
<b>Install LPG Tank</b>			6940	2000	2.9
<b>chapter 8</b>					
Installing a cooling tower	94137	75	4320	7690	1.8
Cleaning the condenser & Installing air filter	107226	86	6755	1000	0.15
<b>chapter 9</b>					
Covering the outdoor pool(water saving is included)	55883	148	3029	1112	0.37
Covering the indoor pool(water saving	174555	463	9130	1112	0.12

is included)					
Covering the Jacuzzi	28127	75	405	32	0.07
<b>chapter 10</b>					
Installation of a solar heating system for:		0			
(A) domestic water heating (single glazed flat plate collectors)	130,556	346	6,768	15,210	3.3
or (B) for domestic water heating (Evacuated tube system)	193,611	513	10,037	16,055	2.3
<b>chapter 11</b>					
Using Window Film to reduce cooling load	9193	7	850	2772	3.26
Increasing the set temperature in the unoccupied rooms & suits	74390	60	4680	Nil	Immediate
Reduction of Heat Emitted by Lighting	19914	16	1255	( included in the lighting system(Chapter5)	Immediate
<b>Total</b>	<b>1,761,636</b>	<b>3,103</b>	<b>90436 *</b>	<b>81,880</b>	<b>0.869</b>