

**Summary of Potential Savings Ministry of Planning and International Cooperation**

Area	Annual Energy Savings		Cost Savings (JD/yr.)	Investment Required (JD)	Pay Back Period (Years)	CO <sub>2</sub> (TON/year)
	KWh/yr					
	Electrical	Thermal				
<b>Chapter 3 : Electrical System</b>						
Switching off Computers' Screens	6762		600	Nil	Immediate	4.5
Switching off Water Coolers	11976		960	Nil	Immediate	8
<b>Total</b>	<b>18738</b>		<b>1560</b>	<b>Nil</b>	<b>Immediate</b>	<b>12.5</b>
<b>Chapter 4 : Lighting System</b>						
Replacement of Conventional Ballast by Electronic Ballast for fluorescent lamps	20771		1828	7760	4.2	14
Replacing 100 watt Incandescent lamps with 20 watt energy saving lamps (CFL ) energy savings	3784		333	30	0.1	2.5
Installing occupancy sensors for stores lighting and meeting rooms	3369		296	200	0.7	2.2
<b>Total</b>	<b>27924</b>		<b>2457</b>	<b>7990</b>	<b>3.25</b>	<b>18.7</b>
<b>Chapter 5: Solar Heating System</b>						
Alternative 1:Installation of a solar heating system (single glazed flat plate collectors)*		4,521	398	560	1.4	11.8
Alternative Recommendation						
Alternative 2:Installation of a solar heating system (Evacuated tube system)		5,390	474	1450	3	14
<b>Chapter 6: Building Envelope</b>						
<ul style="list-style-type: none"> <li>• Adding Internal Insulation to the Un-insulated walls and roof.</li> <li>• Adding reflective films on the glazing.</li> <li>• Changing the set point of condition.</li> <li>• Shading the windows.</li> </ul>						
Scenario 1:With existing number of air condition units *		406391	14303	139238	9.7	1057
Scenario 2: With the future additional number of air condition units		611406	21521	139238	6.5	1590
<b>Total *</b>	<b>46662</b>	<b>410912</b>	<b>18718</b>	<b>147788</b>	<b>8</b>	<b>1100</b>
<b>Total**</b>	<b>46662</b>	<b>615927</b>	<b>25936</b>	<b>147788</b>	<b>5.7</b>	<b>1633</b>
% Saving (based on 2006 consumption) *			<b>23%</b>			
% Saving (based on 2006 consumption)**			<b>32%</b>			

\* Case 1(Current Situation) : Based on Alternative 1 for solar Heating System and Scenario 1 for Building Envelope System, Diesel price (0.315JD/Liter) , and Electricity tariff including taxes (0.088JD/kWh)

\*\* Case 2 (Future Situation) : Based on Alternative 1 for solar Heating System and Scenario 2 for Building Envelope System , Diesel price (0.315JD/Liter) , and Electricity tariff including taxes (0.088JD/kWh)