



Gensol KSA's Solar On Line Assessment Report (GO SOLAR) Tool

I'd like to call my site as **Riyadh**, My Property type is **Commercial**, It has a connected load of **500** kW, My yearly Consumption **1294000** kWh, I'm planning to install solar system on **Shed Mounted**, Solar project cost is **2.5** SAR /Wp, My property is in solar zone no **2**, Proposed solar capacity **200** kW, New Connected Load is **500** kW.

YOUR INPUTS

Project Site Name	Riyadh				Choose Category	Commercial						
Yearly Consumption	1294000			kWh	Connected Load	500						
Current Monthly Consumption Pattern (kWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	93000	84000	93000	90000	139500	135000	139500	124000	120000	93000	90000	93000

SOLAR PROJECT

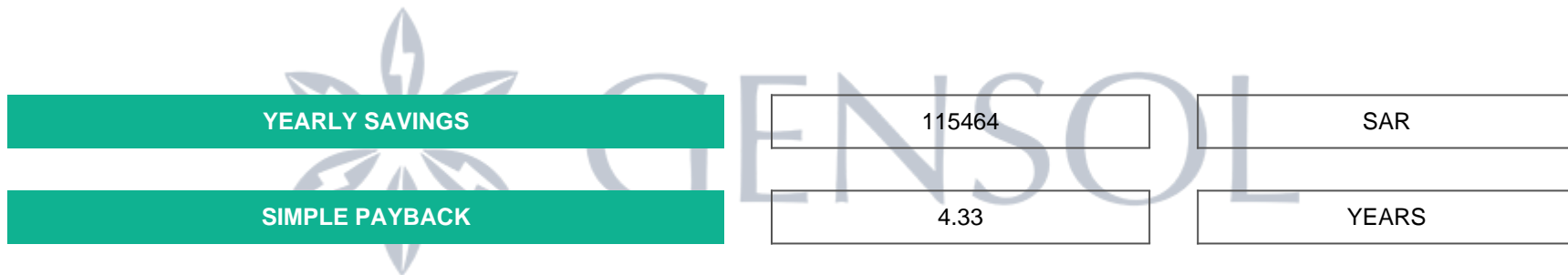
Solar Capacity Planned	200	kW																								
New Connected Load	500	kW																								
Solar Project Cost	2.5	SAR / Wp																								
Total Project Cost	500000	SAR																								
Project Location	2	ZONE																								
Global Horizontal Irradiation (GHI)	2206	kWh/m ² /year																								
Global Horizontal Irradiation (GHI) (kWh/m ² /month)	<table border="1"> <thead> <tr> <th>Jan</th> <th>Feb</th> <th>Mar</th> <th>Apr</th> <th>May</th> <th>Jun</th> <th>Jul</th> <th>Aug</th> <th>Sep</th> <th>Oct</th> <th>Nov</th> <th>Dec</th> </tr> </thead> <tbody> <tr> <td>134</td> <td>142</td> <td>185</td> <td>199</td> <td>226</td> <td>235</td> <td>229</td> <td>213</td> <td>196</td> <td>179</td> <td>136</td> <td>132</td> </tr> </tbody> </table>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	134	142	185	199	226	235	229	213	196	179	136	132	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
134	142	185	199	226	235	229	213	196	179	136	132															
Expected Solar Yield	384880	kWh / year																								
Expected Solar Yield Monthly Spread (kWh)	<table border="1"> <thead> <tr> <th>Jan</th> <th>Feb</th> <th>Mar</th> <th>Apr</th> <th>May</th> <th>Jun</th> <th>Jul</th> <th>Aug</th> <th>Sep</th> <th>Oct</th> <th>Nov</th> <th>Dec</th> </tr> </thead> <tbody> <tr> <td>29680</td> <td>28960</td> <td>33500</td> <td>32820</td> <td>34180</td> <td>34160</td> <td>33360</td> <td>32640</td> <td>32840</td> <td>33820</td> <td>28580</td> <td>30340</td> </tr> </tbody> </table>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	29680	28960	33500	32820	34180	34160	33360	32640	32840	33820	28580	30340	
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TARIFF

Tariff Applicable (SAR /kWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Savings From Solar Project Tariff (SAR /Month)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	8904	8688	10050	9846	10254	10248	10008	9792	9852	10146	8574	9102



Assumptions considered for generation tool:

- (1) **Database used:** Meteonorm
- (2) **Specification of Materials:** All materials considered as Tier-1 Make
- (3) **Type of System:** Rooftop- Flat Roof System
- (4) **Assumption on Costing:** O&M cost for first year has been included