

SOLAR VS DIESEL WATER PUMPS COST COMPARISON

The following is a solar vs diesel comparison to costs and savings that can be expected when you switch over from using diesel generator to a solar water pumping system; you can also open the calculator and see what savings you can make in your own scenario (just click on the link below):

[open Solar vs Diesel Calculator](#)

Sun. Water. Life.

Solar Energy Group: Diesel Cost vs Solar Water Pumping

Your Situation

Your location	<input type="text" value="-24.19S, 28.92E"/>
Depth of water source	<input type="text" value="50"/> m
Water needs per day	<input type="text" value="5"/> m ³
Current fuel cost per day	<input type="text" value="11"/> Rand

Savings


By moving to a **LORENTZ solar pumping solution** you would

- break even in **11 months**,
- saving you approx. **Rand 115,062** over the next 3 years and
- **Rand 1,435,600** over the lifetime of the solution

Your Situation Assumptions Your Savings More Info

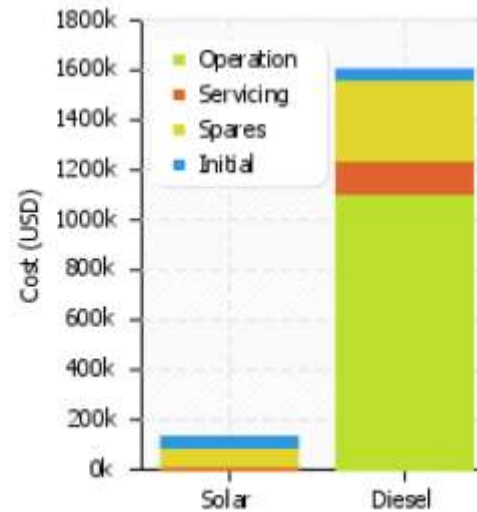
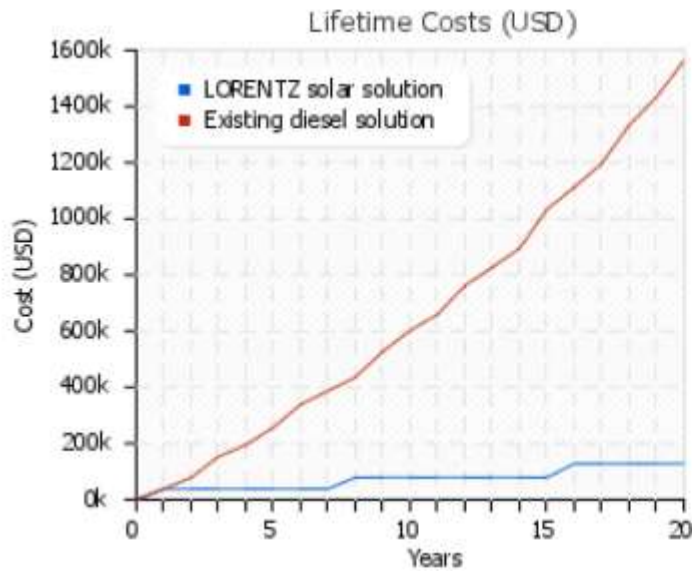
Tel:0128071023|Cell:0745617979|www.solarenergygroup.co.za

Disclaimer: This tool is designed to illustrate the potential cost differences of solar versus diesel powered water pumping. Please use this tool to help you make your own choices. If necessary you should consult financial and water pumping specialists for advice. Systems size calculations are estimates and do not replace calculations made using specialist professional tools.

LORENTZ 

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Lifetime Costs Chart view



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Lifetime Costs *Table view*

Currency:
Rand

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 10	Year 15	Year 20	Total
LORENTZ solution									
Initial cost	37,572	0	0	0	0	0	0	0	37,572
Servicing cost	0	0	0	0	0	6,318	0	7,402	13,720
Spare parts	0	0	0	0	0	35,253	0	41,305	76,558
Cumulative total	37,572	37,572	37,572	37,572	37,572	79,143	79,143	127,850	127,850
Diesel solution									
Servicing cost	6K	6K	6K	6K	6K	32K	35K	39K	134K
Spare parts	0K	0K	34K	0K	18K	95K	106K	70K	324K
Fuel	4K	5K	5K	6K	7K	54K	110K	220K	411K
Fuel delivery costs	29K	29K	30K	30K	31K	164K	181K	200K	695K
Cumulative total	38K	78K	153K	195K	257K	602K	1,034K	1,563K	1,563K

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Solar Energy Group: Diesel Cost vs Solar Water Pumping

For your current diesel solution

Annual fuel price increase	<input type="text" value="15"/>	%
Fuel delivery costs per week	<input type="text" value="550"/>	Rand
Annual service cost	<input type="text" value="5500"/>	Rand
Replacement pump cost	<input type="text" value="16500"/>	Rand
Replacement generator costs	<input type="text" value="33000"/>	Rand
Life of diesel pump	<input type="text" value="5"/>	years
Life of diesel generator	<input type="text" value="3"/>	years

For your LORENTZ solution

Cost of solar pump system	<input type="text" value="30690"/>	Rand
Cost of solar generator	<input type="text" value="6882"/>	Rand
Life of solar pump system	<input type="text" value="8"/>	years
Typical service cost	<input type="text" value="5500"/>	Rand

General

General price inflation rate	<input type="text" value="2"/>	%
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