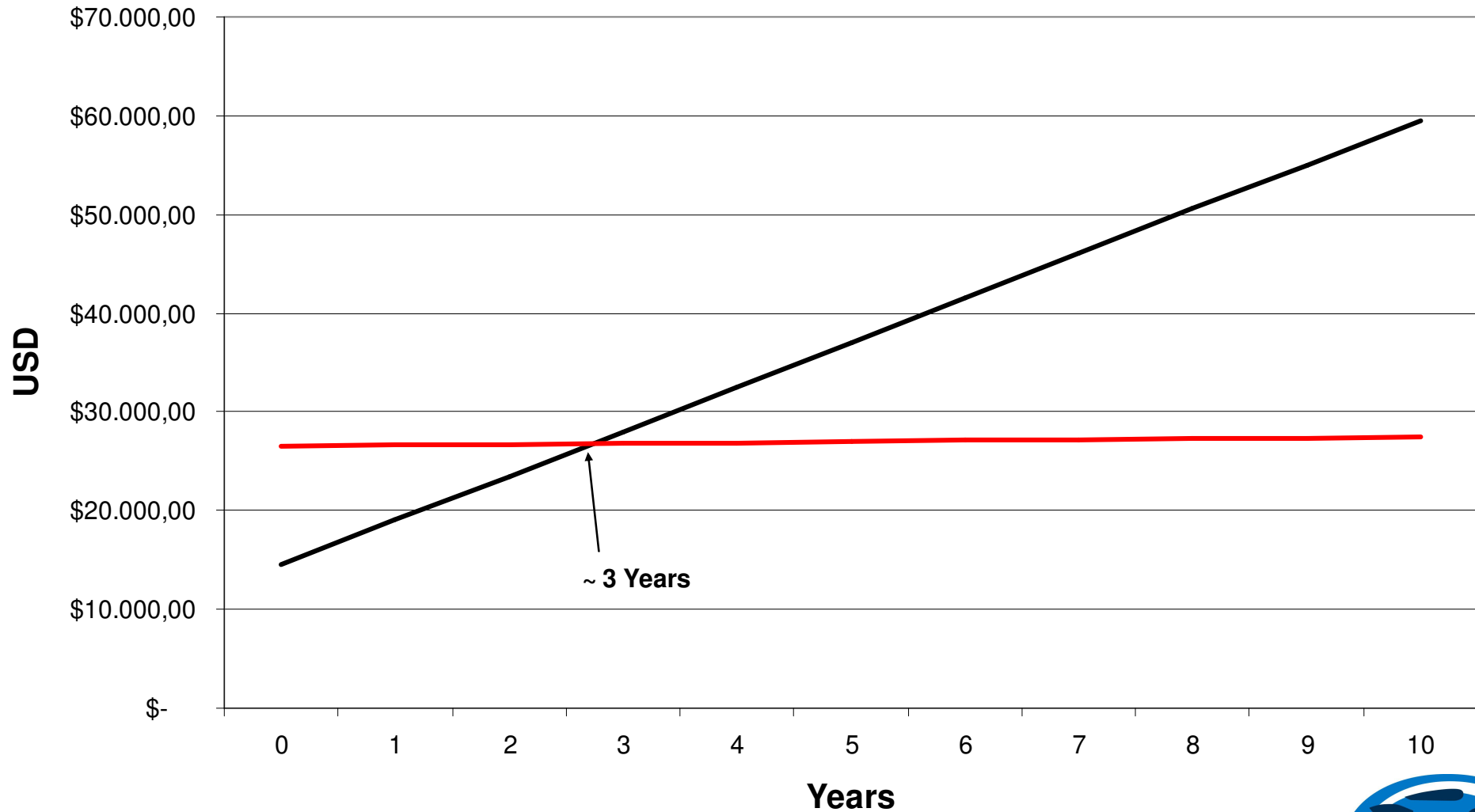


## Typical Costs for pumping 50.000 liters from a 50 meters boreholes



— Genset + Submersible Pump  
— Solar Pump



<b>Example Application at 50 Meter Head</b>		
<b>Design Litres</b>	<b>50.000</b>	
<b>Diesel Price \$/L</b>	<b>\$1,50</b>	
<b>Genset 1500 rmp / 10 kva</b>		
<i>All prices in USD</i>		
	<b>Genset + Submersible Pump</b>	<b>Solar</b>
Pump	\$ 12.000,00	\$ 24.000,00
Pipe work	\$ 500,00	\$ 500,00
Installation	\$ 2.000,00	\$ 2.000,00
<b>Total Cap Cost per system</b>	<b>\$ 14.500,00</b>	<b>\$ 26.500,00</b>
Hours of operation	8	8
Flow Rate [L/min]	104,2	104,2
Daily Flow	50000	50000
Required number of systems	1	1
Capital Cost per System	\$ 14.500,00	\$ 26.500,00
<b>Total Capital Cost</b>	<b>\$ 14.500,00</b>	<b>\$ 26.500,00</b>
Fuel [L/hr]	0,8	0
Annual Fuel Cost per system	\$ 3.504,00	\$ -
Annual Maintenance Cost per system	\$ 1.000,00	\$ 100,00
<b>Total Annual Running Cost</b>	<b>\$ 4.504,00</b>	<b>\$ 100,00</b>
Total Cost Year 0	\$ 14.500,00	\$ 26.500,00
Total Cost Year 1	\$ 19.004,00	\$ 26.600,00
Total Cost Year 2	\$ 23.508,00	\$ 26.700,00
Total Cost Year 3	\$ 28.012,00	\$ 26.800,00
Total Cost Year 4	\$ 32.516,00	\$ 26.900,00
Total Cost Year 5	\$ 37.020,00	\$ 27.000,00
Total Cost Year 6	\$ 41.524,00	\$ 27.100,00
Total Cost Year 7	\$ 46.028,00	\$ 27.200,00
Total Cost Year 8	\$ 50.532,00	\$ 27.300,00
Total Cost Year 9	\$ 55.036,00	\$ 27.400,00
Total Cost Year 10	\$ 59.540,00	\$ 27.500,00

\* All economical cost are approximated

\*\* Date of calculation, 2009

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