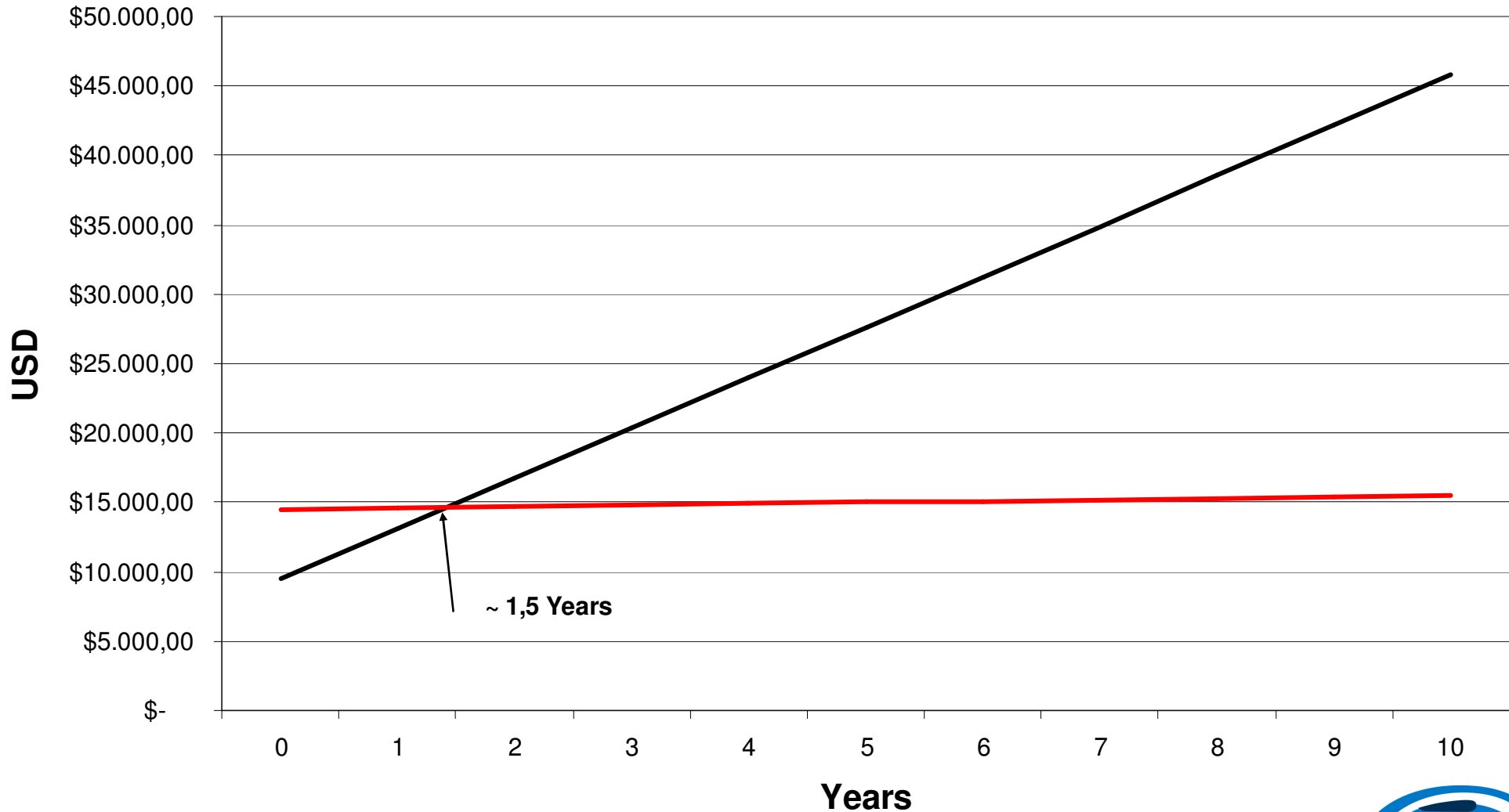


Typical Costs for pumping 50.000 liters from a 15 meters boreholes



- Genset + Submersible Pump
- Solar Pump



Example Application at 15 Meter Head		
Design Litres	50.000	
Diesel Price \$/L	\$1,50	
Genset 1500rpm / 5kva		
<i>All prices in USD</i>		
	Genset + Submersible Pump	Solar
Pump	\$ 7.000,00	\$ 12.000,00
Pipework	\$ 500,00	\$ 500,00
Installation	\$ 2.000,00	\$ 2.000,00
Total Cap Cost per system	\$ 9.500,00	\$ 14.500,00
Hours of operation	8	8
Flow Rate [L/min]	104,2	104,2
Daily Flow	50000	50000
Required number of systems	1	1
Total Capital Cost	\$ 9.500,00	\$ 14.500,00
Fuel [L/hr]	0,6	0
Annual Fuel Cost per system	\$ 2.628,00	\$ -
Annual Maintenance Cost per system	\$ 1.000,00	\$ 100,00
Total Annual Running Cost	\$ 3.628,00	\$ 100,00
Total Cost Year 0	\$ 9.500,00	\$ 14.500,00
Total Cost Year 1	\$ 13.128,00	\$ 14.600,00
Total Cost Year 2	\$ 16.756,00	\$ 14.700,00
Total Cost Year 3	\$ 20.384,00	\$ 14.800,00
Total Cost Year 4	\$ 24.012,00	\$ 14.900,00
Total Cost Year 5	\$ 27.640,00	\$ 15.000,00
Total Cost Year 6	\$ 31.268,00	\$ 15.100,00
Total Cost Year 7	\$ 34.896,00	\$ 15.200,00
Total Cost Year 8	\$ 38.524,00	\$ 15.300,00
Total Cost Year 9	\$ 42.152,00	\$ 15.400,00
Total Cost Year 10	\$ 45.780,00	\$ 15.500,00

* All economical cost are approximated

** Date of calculation, 2009

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