

THE BUSINESS CASE FOR SOLAR IRRIGATION





	Petrol pump	Futurepump SF2
Cost to buy	USD 130	USD 595
Technology lifetime	3 years	10 years
Equipment cost per 10 years	USD 656 (replacement pumps including inflation @ 5%)	USD 595
Running cost per year	Fuel: USD 250 per year	0
Maintenance cost per year	Repairs not usually undertaken	USD 33 per year after 5 year warranty - total over lifespan of pump: USD 203 (including inflation)
Operating costs - labour hours per year	Needs to be supervised while pumping: 113 hrs per year (time cost - no USD cost attributed in this calculation)	Can be left to pump on its own.
Other benefits		<ul style="list-style-type: none"> Can be used for mobile phone charging No time required for sourcing fuel and farmers are protected from fuel cost fluctuations No air, soil or water pollution Reduced noise pollution More efficient irrigation to plants results in higher quality produce Portable pump: easy to move around and store
Total cost of running pump for 10 years	USD 3156	USD 798

Data from Futurepump sources and REEEP analysis 2017