

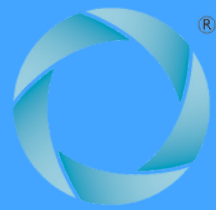


Water Powered
Technologies

WATER CHANGES EVERYTHING

Sustainable, emission free water pumping solutions
delivers water without using any fuel or electricity.





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**We believe in a world where
every single person has access
to clean and safe water**



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About Us

Water Powered Technologies Ltd (WPT) is a UK-based clean-tech company revolutionising the way the world moves water, without fuel, electricity, or emissions. At the heart of our innovation is the Papa Pump®, a globally patented hydro-powered water pump that uses the energy of naturally flowing water sources, like rivers, streams, and springs, to deliver water uphill or across distances with zero running costs.

Our hydro pumps use no external energy sources but operate just through the power of running water and are designed to need little or minimal maintenance during their operational lives.

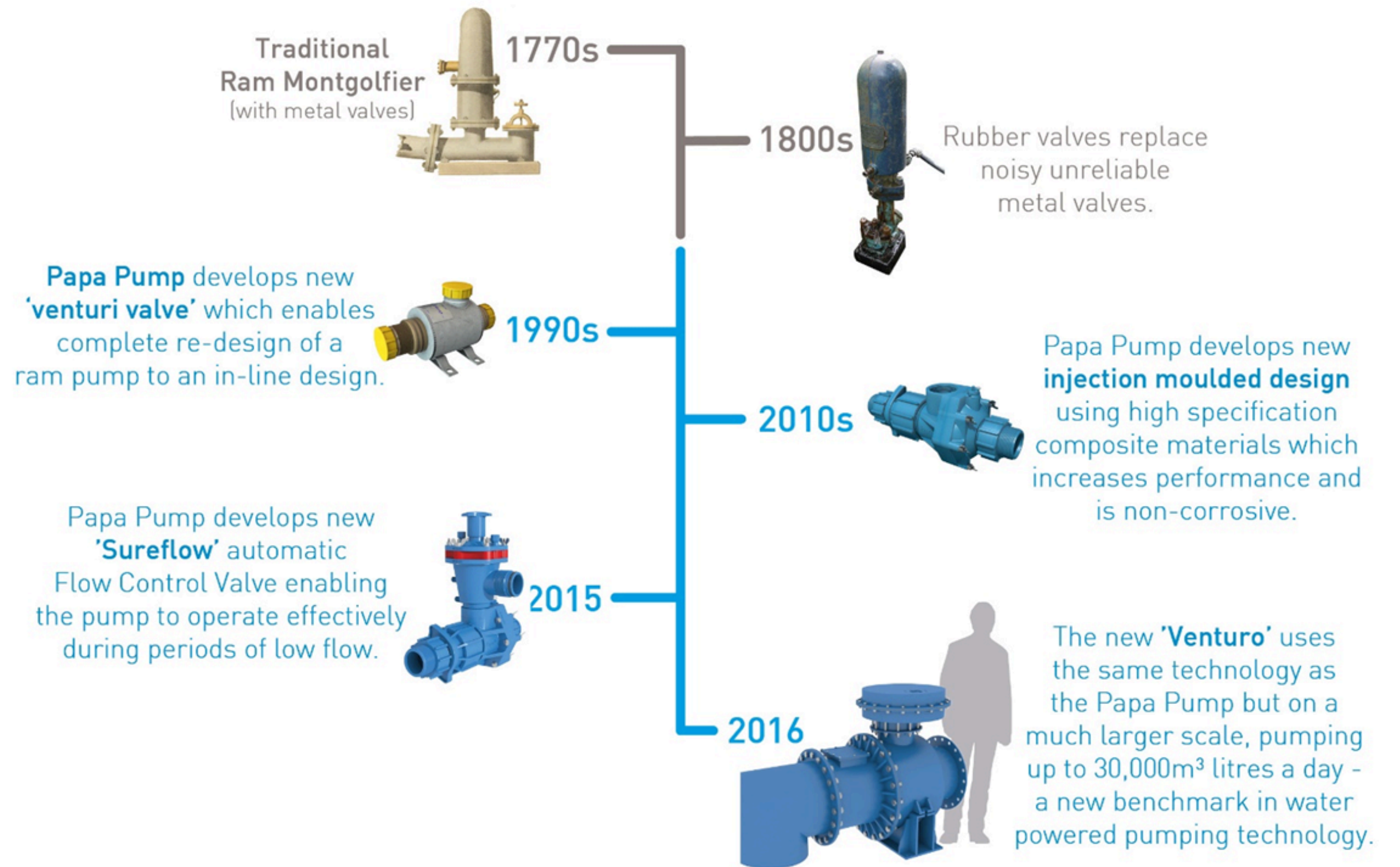
the composite Papa pump, have been sold in over 22 countries with full large-scale production capabilities proven and implemented.





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Company Milestones





703 MILLION

People in the world live without clean water

2.2 BILLION

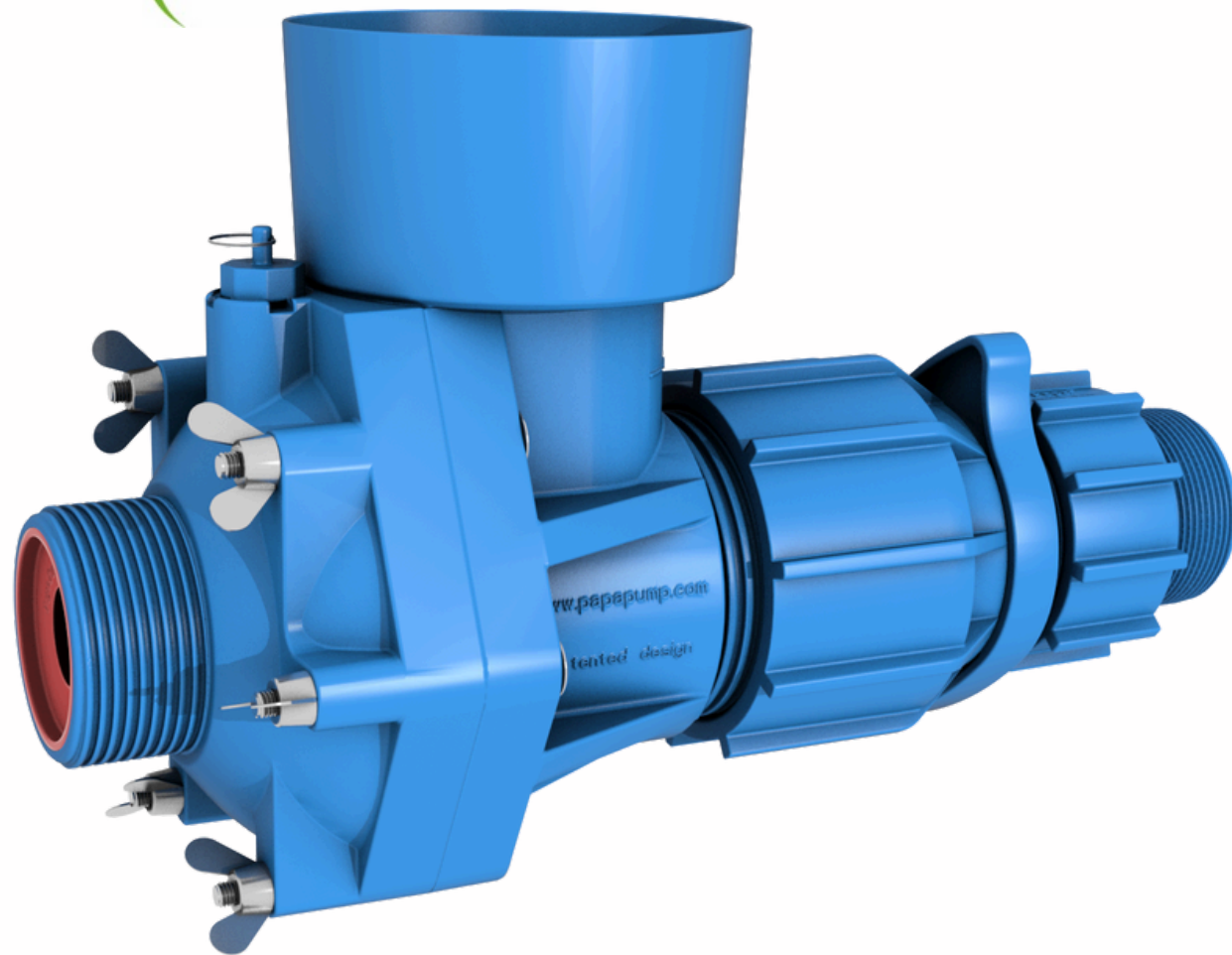
People in the world still lack safely managed water



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a 100% Renewable
Energy Product



Introducing the

Papa Pump®

Our patented technology, Hydro ram pump reliably delivers water from a position near the water source to a higher location without using any fuel or electricity..!

The world's first and only injection moulded, composite water powered pump



Water Regulation
Advisory Scheme
approved for United Kingdom



Attestation de
Conformité Sanitaire
approved for use with
drinking water in France.



National Sanitation Foundation
international accreditation
for use in residential or
commercial plumbing projects.

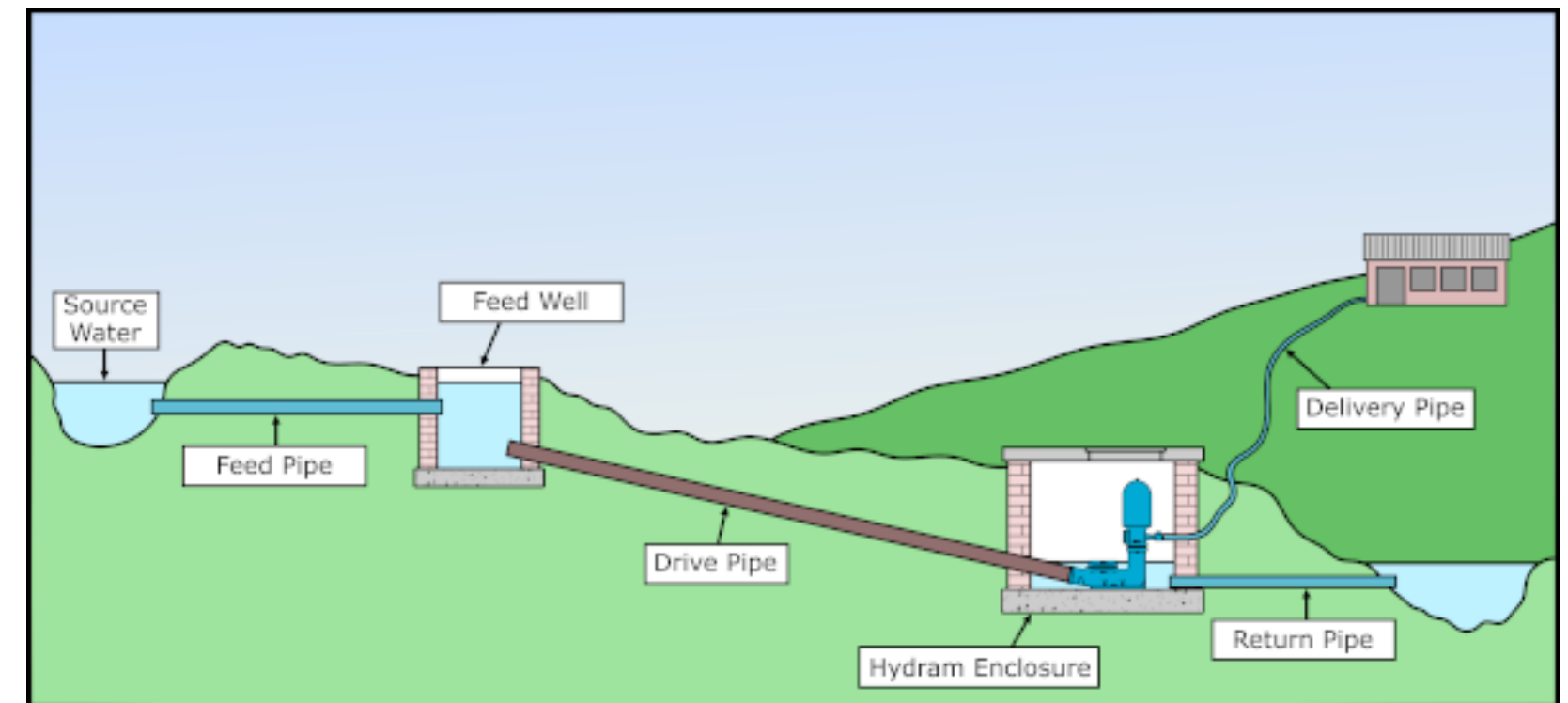


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How Papa Pump Works?

- The Papa Pump uses natural power of water flowing downhill to pump itself to higher ground for irrigation, watering livestock or human use.
- The power for pumping comes from the flow of water via gravity to the pump, and doesn't require a generator, electricity or even wind. Hydrdrams can lift water to ten times the height of the fall to it from the source of water.
- They operate continuously, 24 hours per day, 7 days per week. The only maintenance that is usually required is a change of valve (\$30) every 2 to 3 years.

It can be used as a stand-alone unit to pump water to the field or can be combined with other complementary technologies such as drip irrigation. Another major benefit of the technology is that it can be implemented without requiring existing or additional infrastructure, as long as flowing water is present.



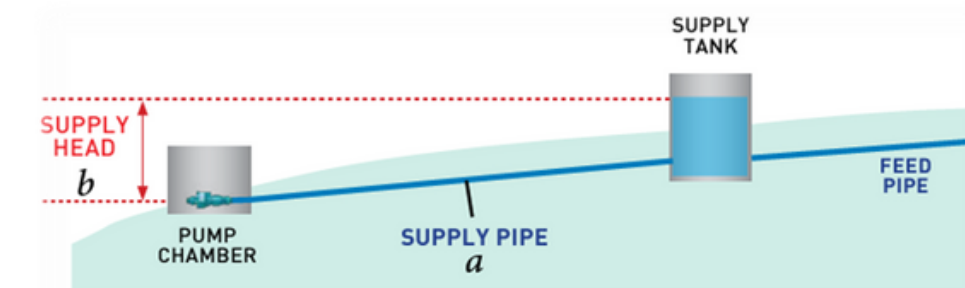
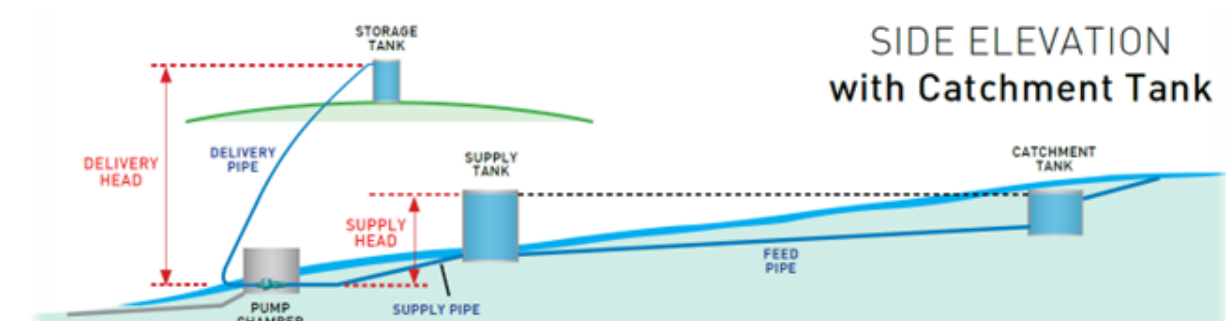
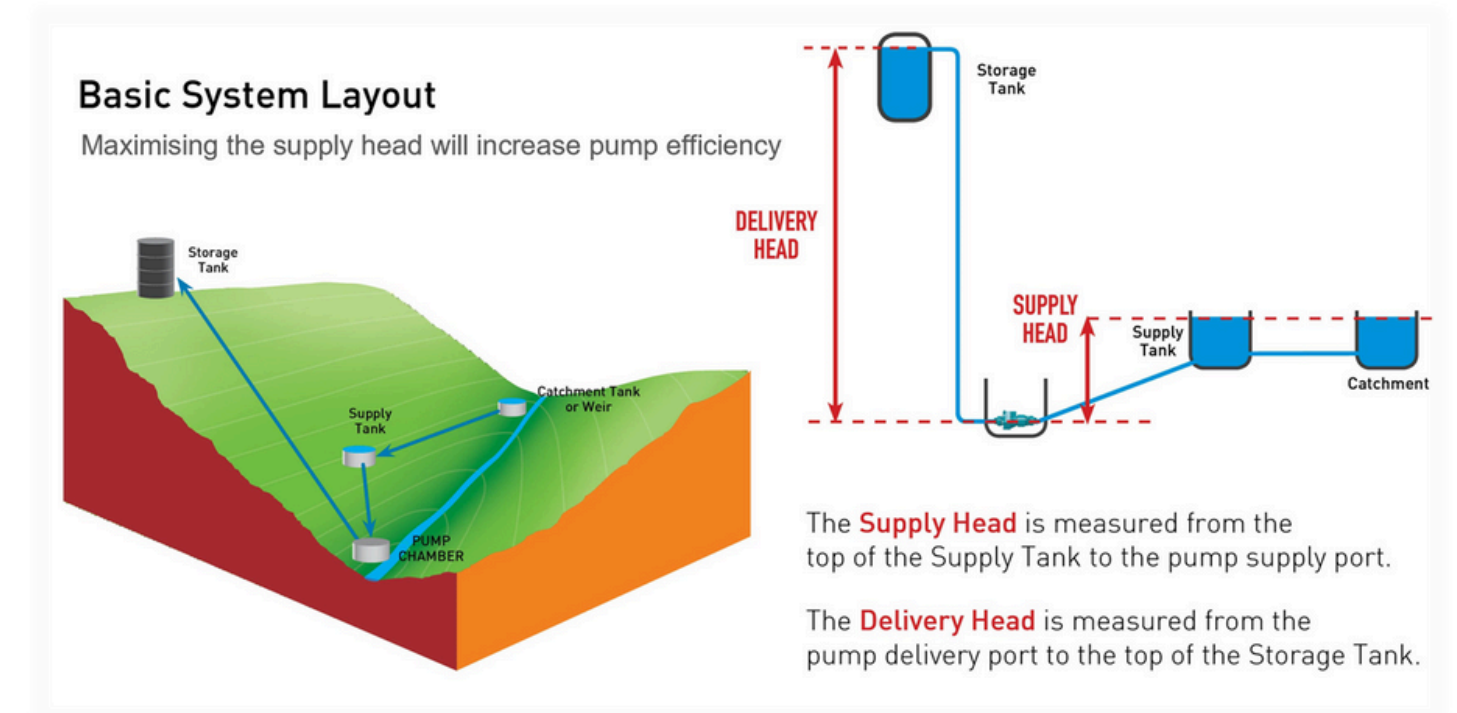
A typical hydraulic ram pump system, with water flowing down the drive pipe to the pump, from where it's delivered to higher ground where it's needed.



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Supply Head And Pipes

- The more supply head you can have the more efficiently the pump will operate, you should always try to use the maximum supply head available.
- The minimum supply flow required with a 2" pipe is 20L/M (5.3 US gpm). The amount of friction caused by a pipe increases with the length of the pipe.
- All pipes should be kept as straight as possible and be kept on a consistent gradient to reduce friction, this will also make it much easier to clean the supply pipe once it comes to servicing.
- Do not use a soft or flexible pipe for the supply pipe, the ideal pipe to use is 2" (internal diameter) steel pipe.
- The length of the supply pipe should be between 5 and 7 times the supply head.



$$a = b \times 5 \text{ (min.)} / 7 \text{ (max.)}$$



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Currently we have 2 Venturo's being installed in Africa to supply a nature reserve with 1 million Liters (264,172 US Gal) of water per day.

Introducing the Venturo™

The Venturo has been designed to enable electricity and fossil fuel free water pumping on a large scale — a max delivery distance of up to 50km, an efficiency of 85% and an operating life of 50+ years.



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Venturo Applications

- Zero Energy Water Pumping: pump long distances to canals/reservoirs/storage ponds
- Sustainable Flood Management: Alleviate flood water and store for drought periods
- Pump and improve Water Quality: the delivered water and exhausted water returned to the water course are both naturally improved through aeration
- Mining applications: More large amounts of water around active mine sites. Pumps water to canal treatment areas, ideal for remote off-grid sites
- **Compressed air production:** For operation of pneumatic machinery or treatment of water with aeration



Global water crisis facts

1 in 5

Around the world, 1 out of 5 deaths of children under five is due to diseases from unsafe water

Global crisis

Water Scarcity Affects Over 40% of the Global Population. Water stress is rapidly intensifying due to extreme weather events, shifting rainfall patterns, droughts and poor infrastructure, particularly in rural and agricultural regions re reducing freshwater availability and affecting livelihood, crop production

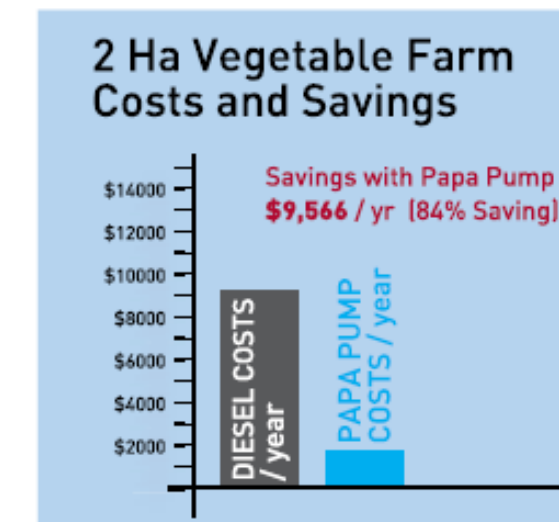
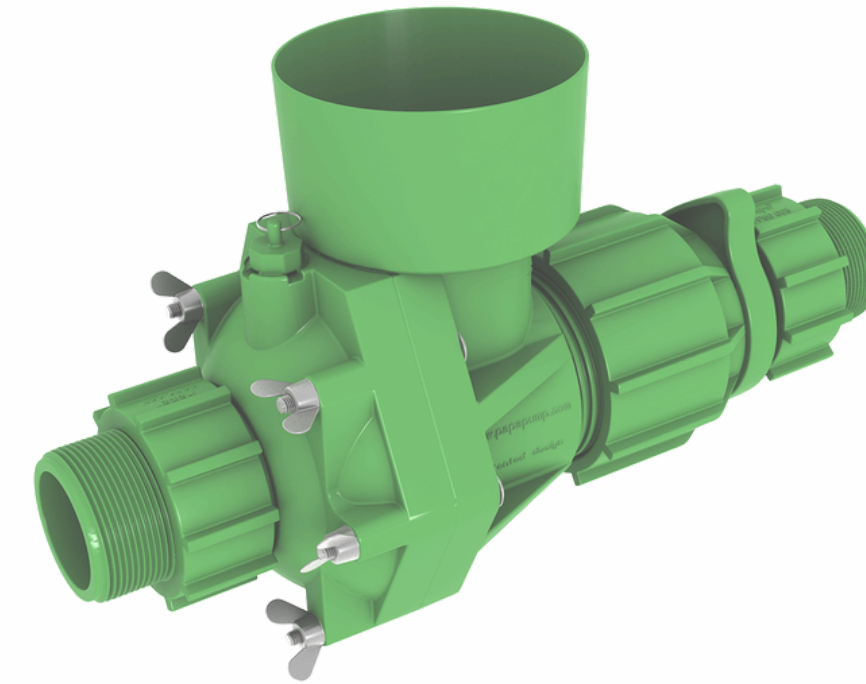


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Hydro Papa Pump vs Diesel Pump System

EXAMPLE: FRUIT PLANTATION AND VEGETABLE IRRIGATION

| DIESEL PUMP | | PAPA PUMP | |
|--|-----------------|--|-----------------|
| Typical cost of installing and operating a Diesel Pump | | Typical cost of installing and operating a Papa Pump | |
| 2 Hectares Vegetable Farm | Cost (US\$) | 2 Hectares Vegetable Farm | Cost (US\$) |
| INSTALLATION COSTS | | INSTALLATION COSTS (3 Pump System) | |
| Diesel Engine & Pump | 1,967 | 3 x Papa Pumps | 3,000 |
| Piping and other equipment | 8,233 | Piping and other equipment | 8,889 |
| Installation Cost | 3,606 | Installation Cost | 2,131 |
| Miscellaneous | 1,148 | Miscellaneous | 1,311 |
| Total Installation cost | \$14,954 | Total Installation cost | \$15,331 |
| 10yr DEPRECIATION (Yearly costs) | \$1,495 | 10yr DEPRECIATION (Yearly costs) | \$1,533 |
| OPERATION COSTS (300 days per year) | | OPERATION COSTS (300 days per year) | |
| Diesel and Labour (unskilled) per year | \$9,614 | Cost of internal valves (\$30 every 3 years) | \$10 |
| Total Yearly Cost | \$11,109 | Total Yearly Cost | \$1,543 |
| CO₂ emissions (kg per year) | 68,192 | CO₂ emissions (kg per year) | ZERO |
| 40 Hectares Plantation | | 40 Hectares Plantation | |
| INSTALLATION COSTS | | INSTALLATION COSTS (6 Pump System) | |
| Diesel Engine & Pump | 6,557 | 6 x Papa Pumps | 6,000 |
| Piping and other equipment | 66,531 | Piping and other equipment | 17,777 |
| Installation Cost | 6,755 | Installation Cost | 4,262 |
| Miscellaneous | 2,616 | Miscellaneous | 2,289 |
| Total Installation cost | \$82,459 | Total Installation cost | \$30,328 |
| 10yr DEPRECIATION (Yearly costs) | \$8,246 | 10yr DEPRECIATION (Yearly costs) | \$3,033 |
| OPERATION COSTS (160 days per year) | | OPERATION COSTS (160 days per year) | |
| Diesel and Labour (unskilled) per year | \$7,520 | Cost of internal valves (\$60 every 3 years) | \$20 |
| Total Yearly Cost | \$15,766 | Total Yearly Cost | \$3,053 |
| CO₂ emissions (kg per year) | 368,238 | CO₂ emissions (kg per year) | ZERO |





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Smarter Than Solar, Cleaner Than Diesel! Cheaper Than Electricity

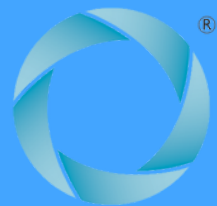
AWARDS



The WPT Advantage

- Uses no fuel or electricity
- Pumps water 24/7
- Very low maintenance
- Light and portable
- Easy installation
- No CO² emissions
- Ready for self installation





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Clean water changes absolutely everything.

When a community, farmers, and animals gets access to clean water, it can change just about everything. It can improve:



Health & Hygiene



Agricultural
Productivity



Livestock Welfare



Water Security &
Resilience



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Case Studies and Project Details

A Northampton allotment faced the challenge of manually carrying water uphill from a spring nearly 500 metres uphill - a time-consuming and exhausting task. They installed a Papa Pump from Water Powered Technologies, which uses no fuel or electricity, relying solely on the natural energy of flowing water. The system now pumps up to 1,500 litres of water per day to storage tanks at the top of the site, making it easier for members to access water for their vegetables and flowers—saving time, effort, and ongoing costs.

Facts and Figures

Supply Head = 2 metres, Delivery Head = 10 metres

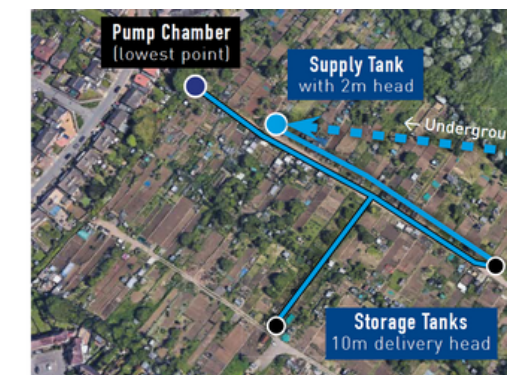
Delivery = 1500 litres per day,

Total Installation Costs including Papa Pump Kit, Pump Chamber, Pipes & Connectors, 2 x Storage Tanks,

Groundworks & Trenching = £7,500 + VAT

Running Costs = £0

Kingsley Park Allotments | Northampton





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- Agriculture is the main income source for the Seulibang community. Irrigation depends on rain, limiting vegetable farming to just 4–6 months during the rainy season.
- The village has one water source for drinking and a stream for sanitation and livestock use. No suitable water source exists for year-round irrigation.
- Despite the challenge, many households are eager to grow vegetables for both consumption and income. Lack of water access is driving migration, especially among youth and working-age people

Renewable World initially planned to install a hydraulic ram pump, but due to reduced efficiency at delivery heads over 100m, it was found unsuitable. After consulting Water Powered Technologies, they opted for the Papa Pump, capable of delivering around 18,000 litres of water per day without fuel or electricity. This reliable water access enabled households to grow cash crops during dry seasons, leading to improved year-round income and helping to reduce out-migration from the community.

Case Study | Mountain Village Water Supply | Nepal

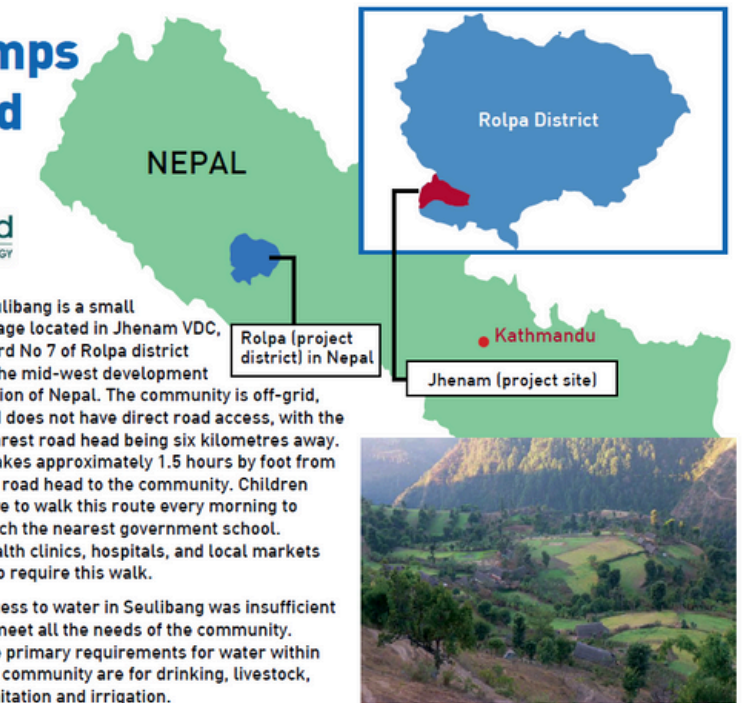


Water supplied by Papa Pumps meets community needs and increases agricultural productivity.



Seulibang is a small village located in Jhenam VDC, Ward No 7 of Rolpa district in the mid-west development region of Nepal. The community is off-grid, and does not have direct road access, with the nearest road head being six kilometres away. It takes approximately 1.5 hours by foot from the road head to the community. Children have to walk this route every morning to reach the nearest government school. Health clinics, hospitals, and local markets also require this walk.

Access to water in Seulibang was insufficient to meet all the needs of the community. The primary requirements for water within the community are for drinking, livestock, sanitation and irrigation.





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PAPA PUMP: ZERO-ENERGY WATER SOLUTION SAVES £20,000/YEAR

| | |
|---------------------------------------|--------------------------|
| Water needs | 20m ³ per day |
| Before Papa Pump Installation: | |
| Cost of mains water | £22,000+ VAT |
| After Papa Pump Installation: | |
| Cost of mains water | £2,000+ VAT |
| Cost of spring water | £0.00 |
| Saving on Mains Water | £20,000 |
| Estimated cost of installation | £18,000 |
| Return on Investment | less than 1 year |

Challenge:

- Farm relied on mains water to supply a 500-strong livestock herd, rising water costs became unsustainable. A nearby stream couldn't support conventional pumps due to its remote valley location

Solution:

- Farmer installed a spring catchment and a supply tank 20m above the pump chamber, Deployed a dual Papa Pump system. Pumped water 126 meters vertically over 1.2 km — without electricity or fuel
- Nearly 100% of mains water replaced with free spring water
- Annual savings of £20,000

Cse Study | Lowmans Farm | Devon

"We farm over 500 cattle with dairy and beef cows and they obviously drink a lot of water every day. We were on mains water but it was getting unsustainable with the high bills, so we decided to look into using our own spring water. We used the Papa Pump system because there was no electricity or power where the water was and obviously they work off their own water supply. It was easy to install and there was no hassle with wires or connections. Our water bills had been about £22,000 a year and now we are only using mains water for washing the parlour down and in the house. The cattle are now drinking the rest of it and we are estimating a saving of up to £20,000 a year!"

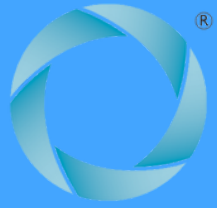
GILES BAMBURGER - Lowmans Farm



SUPPLY TANK



PUMP CHAMBER



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**From Scarcity to
Sustainability: 100%
Emission Free, Powered by
Water: Revolutionizing
Access to Water**



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What's in the **Box?**

The Papa Pump boxed kit includes everything you need to connect to your pipework – and it comes with a 5 YEAR Warranty

The Papa Pump Kit contains:

- Papa Pump
- 8ltr Pressure Vessel
- Metal Stop Valve
- Spare set of Valves
- Delivery Hose Assembly
- 2 x Seradisc Filters
- Special 'C' Spanner
- User Manual
- **5-year Warranty**





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**Thank You — Let's
Power Your Next Clean
Water Project Together.
Get In Touch With Us.**



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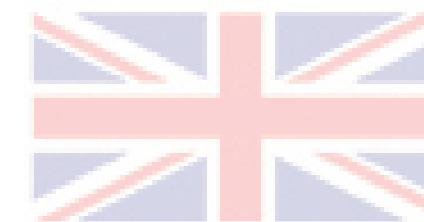
Website

waterpoweredtechnologies.com



Address

Bude, Cornwall, UK



A Great
UK Design

PATENTED