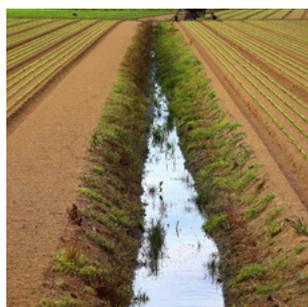




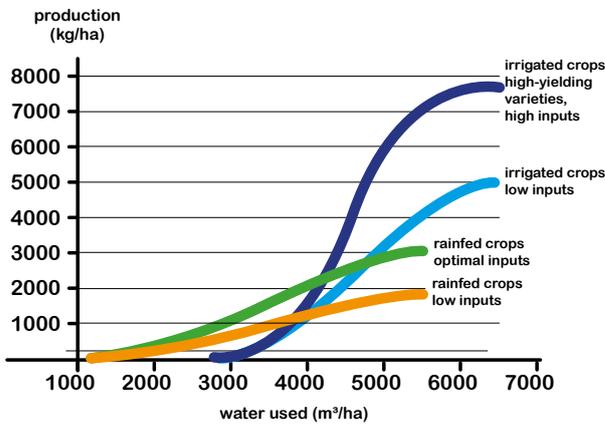
Water Powered
Technologies

A Zero Energy Financeable & Maintainable Tailor-made Irrigation Solution



for a greener, cleaner world

Plantations have historically relied on dependable rainfall for effective crop propagation. The escalating change in global rainfall patterns means that it is increasingly more difficult to produce consistent growth, which has significant consequences on the quality and yield of these crops as well as posing financial and operational challenges to the plantation businesses.



Source: 2017 Food and Agriculture Organisation of the United Nations

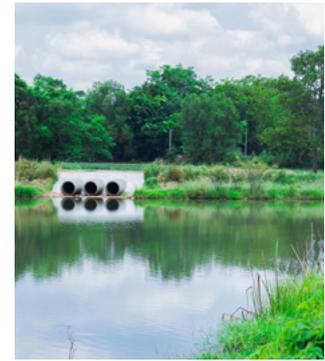
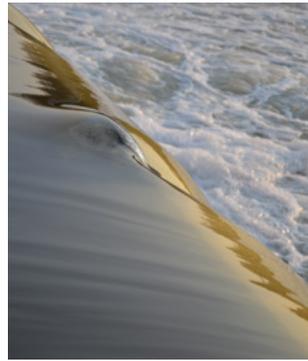
The advantages of controlled irrigation have long been recognised by the industry although the methods and associated costs have often been considered difficult or high. This is due to the concept of having to utilise specialised irrigation equipment and fossil fuel powered pumps which are both environmentally and financially unviable.

Water Powered Technologies (WPT) recognises the issues of irrigation within the plantation business model and has developed a new patented range of large volume zero energy pumped irrigation systems to address these challenges. These bespoke systems are both simple and sustainable.



WPT will design and manage the full irrigation installation as well as providing an ongoing service commitment - allowing plantation owners to concentrate on their business of cultivating and harvesting crops whilst knowing that their irrigation is working for them with zero energy costs.

Water abstraction from diminishing groundwater sources is energy intensive and unsustainable which is why WPT irrigation systems utilise the energy and water from a naturally flowing water source during good flows. This water is pumped and stored in lagoons, from where it can be distributed. This also manages flooding impact by reducing the peak flows lower down the catchment.



Hydro electricity can also be produced during periods of surplus water to either utilise directly or sell to the power grid.

Benefits of a WPT irrigation system:

- A fully designed and installed system
- **Please note that a design study will need to be done before installation**
- A huge reduction in climate risk by using no fossil fuels or electricity
- Self-financing by additional cash flow
- Utilises naturally flowing water sources
- Enables 20-30% yield increases and higher quality crops
- Ideal in remote off-grid locations
- Controlled and efficient utilisation of fertilisers
- Less waste and less manpower
- Pump and Store providing efficient use of water resources
- Ability to generate electrical power when not irrigating
- Reduces flood risk in downstream catchments

