This West Country dairy farm decided to expand their herd in 2015 which required construction of new livestock buildings. This was an ideal opportunity to install a rainwater system to provide a supply of drinking water for 300 cattle.

**Client Requirements**
- **Client:** Private farmer
- **Remit:** To supply a complete rainwater harvesting system to provide drinking water for dairy cattle.
- **Commissioned:** June 2015

**Design data**
- Roof area: 2,000m²
- Annual rainfall: 745 mm
- Outlets served: 8 drinking troughs

**Equipment Supplied**
- 50,000 litre GRP underground tank
- Wisy® WFF300 380µ Vortex filter
- Multigo 40/08 multi-stage submersible pump c/w floating suction filter
- 750 litre one-piece break tank c/w Wisy® mains water top-up unit
- Matrix 5-4 variable speed booster pump with inverter drive
- Saphir 4 Pro UV disinfection unit c/w 25µ & 5µ sediment filters

Water is collected from the new barns and an existing adjacent building via a large Vortex filter into a 50,000-litre underground tank. This removes leaves and all other debris larger than 0.38mm. The water is then pumped to an intermediate break tank which is equipped with an automatic back-up from the mains water supply. From here the water is then pumped to several drinking troughs via fine sediment filters and an Ultra-Violet disinfection unit.

In the first three years of operation, the system has saved over 2,400 cubic metres of water and has significantly reduced the rainwater run-off to the surrounding land. This is an excellent example of the technology producing measurable benefits. The farmer is delighted with the results and considers it a worthwhile investment.