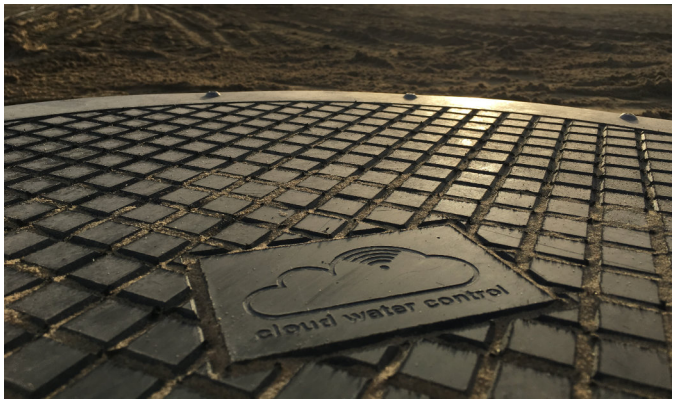
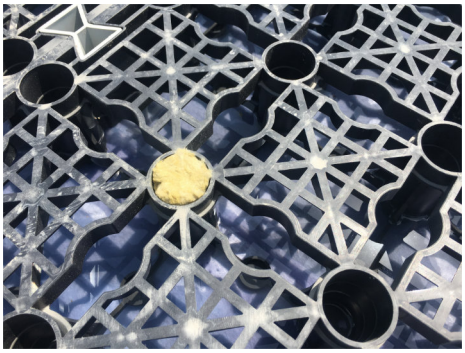
cloud water control

Natural Grass Irrigation, Middle East





Healthy Natural Grass in the Desert

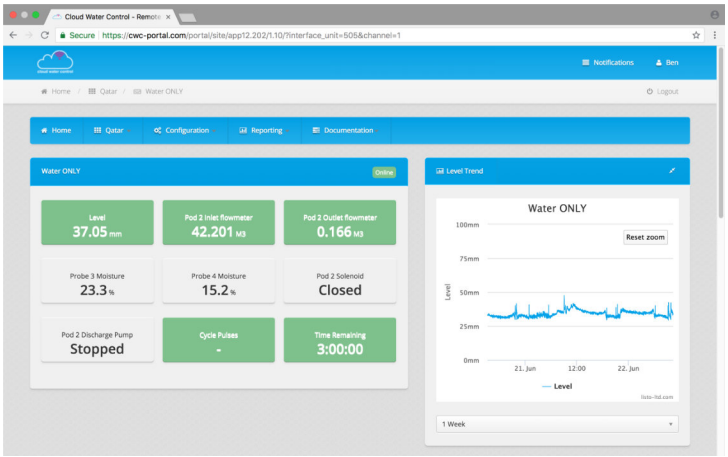
Cloud Water Control are at the forefront of a pioneering scheme to enable the healthy growth of natural grass in the desert.

Desert climates make for challenging environments to grow non-drought resistant plant species. Without CwC, the hot climate would result in huge water losses due to high evaporation and transpiration rates. It is essential to maximise irrigation efficiency, but minimise water wastage.

Cloud Water Control designed, supplied and installed an innovative system which allows the client to view real time data. The CwC system uses sensors, valves and cloud based software to remotely control soil conditions and promote sustainable water use.

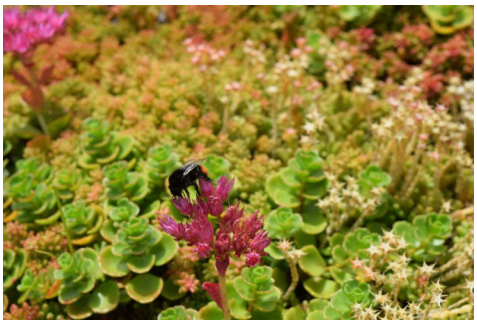
CwC supplies only what the grass requires, not too much - not too little!

- Control irrigation levels
- Monitor water use
- Control soil moisture
- Monitor soil salinity
- Monitor soil temperature



cloud water control

Smartroof 2.0, Netherlands



Blue-Green Roofs - Taking Green Space to New Heights

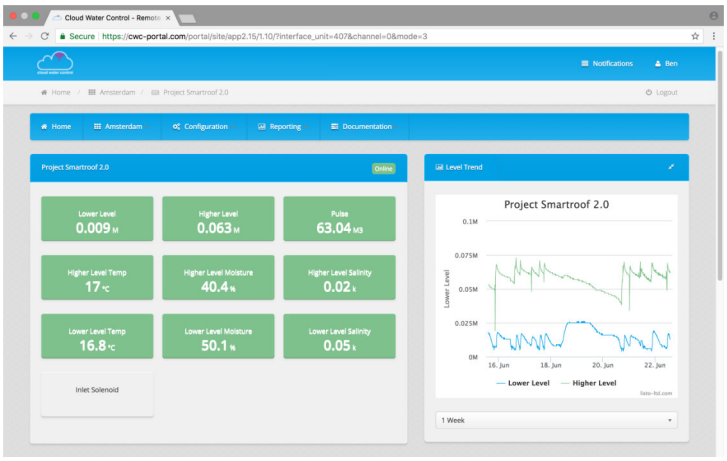
Blue-Green schemes combine the flood water management techniques of both blue and green roofs to alleviate urban rainwater issues, but also provide fresh healthy spaces that can be enjoyed.

Blue-green spaces are growing in popularity because of their ability to manage water to provide green spaces that have enhanced biodiversity and urban cooling properties.

Cloud Water Control designed, supplied and installed a smart water management system on a blue-green rooftop in the heart of Amsterdam. The system is responsible for managing water levels on the rooftop to minimise roof loading, but maximise attenuation and optimise irrigation. This retrofit system remotely monitors water level, soil moisture and remotely controls valves to distribute water across multiple roof levels.

The system works in sympathy with the original building construction, but also maintains a healthy green space!

- Control water storage levels
- Monitor water use
- Monitor soil moisture
- Monitor soil salinity
- Monitor soil temperature



cloud water control

Treesquare, Netherlands

Resilient Cities - Building for the Future

To accommodate the growth in popularity and combat the effects of climate change, the the City of Amsterdam are future proofing new city developments by installing more green infrastructure and constructing on elevated ground to avoid flood damage. These new developments risk green infrastructure failing due to little or no natural ground water for trees.

To achieve successful tree growth, Cloud Water Control was selected to manage water an innovative new development site in Ijburg, Amsterdam.

At Ijburg, a 50m x 50m square was constructed on top of a man-made water table. The CwC solar powered system remotely monitors soil conditions, controls water inlet irrigation supplies and controls evacuation valves to manage water levels within the water table. The CwC system is vital for the survival of these trees during the early establishment stages and ensuring ground conditions are maintained long term.

- Control irrigation water supply
- Monitor water use
- Monitor soil moisture
- Monitor soil salinity
- Monitor soil temperature
- Solar powered