



hoogendoorn
growth management



construction & technique



Actual results Green Farming demonstration project surpass expectations

Proven in practice: water-efficient technologies reduce water consumption with 65% and increase production with 20%

In July 2012 Green Farming, a consortium of 25 leading Dutch companies in horticulture technology, put the demonstration project 'Water management in Kenyan horticulture' into practice. This two year project, initiated

by installer Bosman in cooperation with automation company Hoogendoorn, provides information on the impact of water saving technologies on production results, water use and running costs. The first results surpass the expected

results: 65% less water use and 20% more production! This emphasizes how water efficient technology, like hydroponic systems and process automation, are essential for efficient water management.

The demonstration project takes place at Van den Berg Roses company in Naivasha, Kenya. This 1,6 hectare farm, installed by Bosman Kenya, produces more than ten types of roses and is one of the upper



end Kenyan roses exporters. The project exists of a semi closed production system with coco peat substrates, and includes e.g. water storage, water treatment and water recycling. All results are being compared with the same rose cultivar (Upper Class) which was planted in soil in the same greenhouse, at the same moment.

Impressive first results on water savings

Van den Berg Roses is very pleased about the first results (data gathered from January 1st till June 30th 2013). Actual results show that

the reduction on water use is at least twice as high as the forecasted minimum saving of 30%. Also considerable savings on fertilizers are realized. A lower input of water and fertilizers, and higher production levels (20%) resulted in low running costs while the return increased. This project proves that a good water management, which includes controlled hydroponic systems, makes Kenyan business more sustainable and successful.

The Coco peat substrates (provided by Van der Knaap)

and process automation (supplied by Hoogendoorn) contribute to a large extent to the success of Van Der Berg Roses. The homogeneity of the coco peat substrates ensures a stable air rate and thus a much controllable substrate. This stimulates good rooting and initial growth of rose plants. The Hoogendoorn iSii process computer optimizes the dosage of all used water sources, such as rain water, drain water, lake water and water borehole. It also takes care of the complete recirculation and disinfection of drain water. This efficient water management results in a healthy crop with responsible and efficient use of water and fertilizers.

Bosman Kenya and Hoogendoorn: your local partners

Bosman Kenya is in charge of the whole project implementation.

Bosman provides solutions through design and construction for commercial greenhouses, installation technologies and even solar solutions. Together with Hoogendoorn Bosman provides local service, technical advice, support and additional training. This partnership assures that water technology solutions can completely be aligned with business circumstances and customer's needs.

Also interested in efficient water management?

For more information on this demonstration project or advice on sustainable water technology solutions, please visit the Bosman/Hoogendoorn stand (Road A, stand number 20-21) at Navasha Horticultural Fair 2013. This trade show will be held on 20 and 21 September 2013 at the Navasha Sports Club.

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