



**MASTERMIND**  
the **company**  
smart sustainable solutions

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**Subject: Business Case  
Waste Water Treatment Plant / Water Reuse System**

In this Business Case we'd like to explain the benefits of applying the Waste Water Treatment Plant/ / Water Reuse System (WWTP/WRS) that The MasterMind Company can install in a project.

First we would like to make a brief list of possible projects where this WWTP/WRS is suitable:

- Agricultural Industries (vegetables, fruit or wine)
- Resorts (Tourism, Universities, Barracks)
- Communities (Rural, Urban districts)
- Camps (Mining, Refugee or Military)

### **Direct Reuse**

The calculation we made for this business case is based on the maximum capacity of this particular WWTP of 166,5m<sup>3</sup>/day.

It produces up to, but not limited to, 116,5 m<sup>3</sup> potable water that is ready for direct-reuse in the WRS.

This could result in a remaining potable water demand of only 50m<sup>3</sup>/day that should be delivered by another source.

### **Mitigation of water scarcity**

The potable water demand from sources is reduced with 70%, which means a significant support in the mitigation of water scarcity.

The social return that is achieved by reducing the demand on natural sources might be important for e.g. the tourism sector where environmental awareness is growing in response to the global climate agreements.

### **Social recognition**

For both agricultural and tourism companies corporate social responsibility and social entrepreneurship comes within reach which might lead to social recognition.

### **Resilience**

Another fact is the increase of the resilience that the WWTP/WRS brings to customers in both governmental as private sectors during dry periods.

Thanks to buffering of the reusable water your installation can withstand a running dry for a certain amount of days.

### **CO<sub>2</sub> stress**

If your current installation runs dry, the logistic efforts to get water on site will be cost-ineffective and lead also to an extra CO<sub>2</sub> stress of the environment. Using our WWTP will minimize this.

(For 116,m<sup>3</sup> of water a minimal transport capacity of 6 trucks/day is needed)

### **Environmental profit**

The environmental profit that is achieved by the highly effective first step in treatment, purifying waste water into water that is suitable for preparation of

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potable water (according to the minimum (Dutch) requirements), is enormously because pollution of water sources is minimized.

### **Costs-reduction**

Furthermore it might give a costs-reduction, particular when water companies increase water tariffs during dry periods.

### **Sanitation costs**

Moreover there is a reduction of 166,5m<sup>3</sup>/day in sanitation costs, because this amount is partly reused and partly dehydrated to make it suitable for incineration. We experienced that companies that remove wastewater execute this at high costs and often it's unknown where they drop this untreated wastewater, which results in pollution of the environment especially of scarce sources.

### **Positive cost-benefit ratio**

We believe that these reductions will contribute to achieve a positive cost-benefit ratio for both financial and environmental aspects.

### **Customers care**

It is our policy to make it as easy and convenient as possible for our customers, therefor the deployment of a supervisor after installation of the WWTP/WRS is included.

### **Payment**

It's important to know that we charge the customer only per m<sup>3</sup>, based among others, on our yearly costs.

Besides site preparation and eventual modification or connecting costs to the existing systems, there isn't any further investment needed.

Water meters will be placed so the customer and our supervisor can read off the results together. The m<sup>3</sup>-price is negotiable and depending of a lot of factors.

### **Monitoring**

To control the reliability of the WWTP/WRS a digital monitoring system is provided. Repetitive sampling for laboratory tests is an option to discuss.

Based on earlier results we are confident to install the WWTP/WRS on a no cure-no pay base.

### **Conclusion**

*Beside the environmental and social profits, application of the WWTP/WRS could be cost-effective for miscellaneous projects in sectors as mentioned.*

We hope to have convinced you with these arguments that application of our WWTP/WRS could be a successful business case and of course we are willing to discuss the delivery terms that meet your project.

Finally we would like to mention that if needed we can assist in the design and realization of the complete water management for e.g. resorts of multiple buildings. In that case the optimal benefits of the WRS can be utilized where residues of the treatment can be used for toilet flush, which saves potable water once again.



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## System for Direct Reuse of Water

REDUCING INTAKE DEMAND UP TO 65%

