

# CASE STUDY VENEZUELA

## INDEPENDENT DRINKING WATER SOLUTION

### Client

Government of Venezuela

### Location

Orinoco Delta, Venezuela

### Introduction

The program „Sembrando Luz“ started a view years ago in order to provide drinking water and solar energy to the indigenous people in remote areas of Venezuela. The project targets a successful implementation of clean technology which works under harsh conditions and provides a long-term solution. The project consists on seven steps - from the investigation of regional conditions and needs to visit and inspect every village involved in the program to training of a team of local operators until installation of Trunz Water Systems and Solar Systems. Also the education of local school children and their parents in order to increase awarness for water issues in these rural areas, is a step in the project.



### On-site conditions

Access to location	natural path, some areas boat access only
Ø amount of people served	approx. 200 - 500 inhabitants per village
Water sources	well, river, lake
Common contamination in raw water	organic contamination in some areas slightly brackish water
Ø distance from source water to unit	approx. 20 metres (depth of wells up to 15 metres)
Ø water temperature	20 – 30° C
Ø air temperature	20 – 40° C
Site preparation work	flat concrete platform (protection from flooding)
Ø sun radiation	6 hours



### Technical layout

- 1 Water source (well, river, lake) and feed pump 24V with 20m hose
- 2 Solar panels, 24 V, 160 Wp
- 3 Power Center TSPC max-700 (Batteries, Inverter, Controller etc.)
- 4 Trunz Water Box (TWB 001, Ultrafiltration), approx. 800 l/h
- 5 Water storage tank(s)

