

Company name	MASCARA RENEWABLE WATER
Partners	VERGNET HYDRO & AFRIDEV MATI MOZAMBIQUE LDA
Project Title	BRACKISH DESALINATION PROGRAM
Status (planned, ongoing, completed)	Completed
Location(s)	Gaza Province – Mozambique
Technology	Brackish water desalination technology: Solar powered Reverse Osmosis without battery
Low carbon desalination scheme (renewable energy supply, energy efficiency, others)	Renewable energy supply with very low energy consumption and with high energy efficiency
Start date - End Date	Starting date: July - August 2018
Size of the project (Water production and Energy supply)	<p>OSMOSUN® BW 4,5    16,5 kWp    32 m<sup>3</sup>/day of fresh water production</p> <p>OSMOSUN® BW 4,5    22 kWp    34 m<sup>3</sup>/day of fresh water production</p> <p>OSMOSUN® BW 3    11 kWp    22 m<sup>3</sup>/day of fresh water production</p> <p>OSMOSUN® BW 4,5    16,5 kWp    30 m<sup>3</sup>/day of fresh water production</p> <p>OSMOSUN® BW 3    11 kWp    12 m<sup>3</sup>/day of fresh water production</p> <p>OSMOSUN® BW 3    11 kWp    15 m<sup>3</sup>/day of fresh water production</p>
Investment size (please specify currency)	500 000 €
Contractor	VERGNET HYDRO & AFRIDEV MATI MOZAMBIQUE LDA
Summary of the project	<p>The Belgian Cooperation Agency ENABEL has launched a standalone solar desalination program to supply to a set of 6 villages, representing more than 7,200 inhabitants of these remote area off grid 200km inland, a source of fresh water.</p> <p>Turnkey water supply projects connecting solar powered desalination units with no battery to a small-scale water distribution system.</p> <p>The cumulated capacity is 145 m<sup>3</sup> per day split over 6 sites.</p> <p>The total solar power installed is 88 kWp.</p> <p>Four unites works 100% solar powered with no battery, and 2 units OSMOSUN® hybrid are connected to the grid for a functioning besides sunshine hours.</p> <p>More than 7,000 inhabitants' split over 6 villages are the beneficiaries.</p>
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