

WeatherTec AG Fact Sheet Rainfall Enhancement Providing Water and Food Security for a Billion People



Company & Technology

- WeatherTec AG is a German-Swiss hightech environmental company, which has been applying its impacted technology since 2004 on three continents, working only for governments
- The WeatherTec technology is a rainfall enhancement technology, enabling to add big volumes of rainwater through Ionization of the air influencing the growth of raindrops in clouds above. It is mimicking natural processes by ground-based systems
- Environmentally friendly, solar powered, "Sun makes Rain!"Zero CO2, Big Data and Digital 4.0
- Command and Control Centers, own forecast model, rain radar, drones, data center
- Winner of Laudato Si Challenge Prize 2018, Vatican and presented 2019 on the World Economic Forum, Davos

Projects & Operations

WT works for governments only; all results are measured by governmental institutions. Some examples:

Country	Duration	Rainfall (MCM)	Usable (MCM)	Increase (%)	Value (million €)	Comments
Jordan	May 2016 -Dec 2016	1.037	77	+39%	100	39% greater than 30-year average
	Dec 2017-May 2018	372	28	+14%	36	Plus 12% - 68% worst summer in 250 years
	Sept 2018 - Dec 2018	665	49	+25%	64	Up to 85% more vs 30 year average
	Total Jordan	2.074	154	26%	200	
UAE	Summer 2010	50 rainfalls				No rainfall forecasted, but 50 achieved
Australia		930	280	+100%	350	Drought breaking event after 3 years
Switzerland	Summer, Winter	Rain/Snow	-			Rain and Snowfall / Fog dissipation

National Jordan Meteorological Department in August 2018 testified that:

- WeatherTec has broken and reversed the 30 year negative trend of declining precipitation.
- Exceptional achievement that WeatherTec can "Change Climate Change", restore former situation of ecosystems.
- WeatherTec's substantial impact on agriculture, energy savings, as a result of enhanced cloud coverage with or without rainfall, industry and comfort climate for better quality of life is under evaluation
- Exceptional CO2 effect: minimum savings in Jordan only 14 m t for replacing pumping from groundwater

Management & Expert Team

- Swiss and German managers, experts from meteorology, climatology, atmospheric and space science
- Heads of Advisory Board and Impact Board: Prof. Peter Wilderer/Prof. Jörg Imberger, both Stockholm Water Prize Laureate(socalled "Water Noble Prize"); Prof Mangstl, Director FAO; Ray Garcia, US entrepreneur
- Cooperation and due diligence with experts from Max Planck Institute, TUM Munich, Queensland University, ETH Zurich, as well as certification for ISO 2008 by TÜV SÜD, Germany

Comparison With Other Fresh Water Solutions

Technology	WeatherTec	Cloud Seeding	Desalination
Process	Ionization of air causes fast growing droplets	Spraying chemicals in clouds by planes, artillery or rockets	Osmosis process mostly
Environment	Most env. friendly	difficult	Energy footprint high
Price / m ³	0.1 € most inexpensive	8+ €	0.75-3 €
Capital Investment	Service – no investment	5-50 Mill €	20-800 Mill €
Running costs	Service € 1.5-2 Mill/ for project area 10.000 km ²	Only much smaller impact area possible	High (fossil) energy cost