Press release April 26, 2023

The NGO Water For Karakalpakstan has ordered 2400 ORIAZ Solar-Dripper for Uzbekistan families



French version communiqué.













This region of Central Asia located near the Aral Sea is suffering the worst droughts for several years. After decades of unsuitable industrial agriculture, the Aral Sea has dried up 90 % and dropped 14 m down leading to soil salinization and even more extreme temperatures.

The director of the NGO <u>Water for Karakalpakstan</u>, mr Nik Chantel was looking for a sturdy, ultra efficient drip irrigation system to distribute locally to families and allow melon or vegetable crops to be grown with the minimum of water. They found ORIAZ in France through research on <u>drip irrigation</u> <u>efficiency</u>. The Solar-Dripper can reach an unrivaled level of up to 99.4%.

Thanks to its patented bioclimatic regulator, the ORIAZ Solar-Dripper can provide a watering rate of 10 to 1000 times slower than conventional drippers. In addition, watering is naturally synchronized with evapotranspiration (ET). This proven natural synchronism with plants needs improves growth by avoiding soil saturation and reducing percolation losses.

Finally, the special ORIAZ regulator is 10 to 100 times more clogging resistant. Biofilms, salts and particles of 2 mm can pass trough. The Solar-Dripper can thus use river water, gray water or rainwater directly without filtration or electricity needs. Robust and inexpensive, it has a lifespan of 5 to 20 years.

2400 ORIAZ drippers already arrived in Uzbekistan but the needs are huge. You can help to send more Solar-Dripper with this <u>online donation link</u>.

The offices of the NGO Water for Karakalpakstan are open for three weeks in Uzbekistan to distribute this solution.

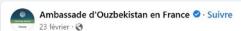


The Embassy of Uzbekistan is very receptive to this proven solution.









≈ 2023 yil 22 fevral kuni #O'zbekiston Respublikasining Fransiya va Portugalyadagi Elchisi S. Rustambaev va #Fransiyada tashkil etilgan "Water for Karakalpakstan" #Assotsiatsiyasi vakillari Nik va Natasha #Shantel o'rtasida uchrashuv tashkil etildi.

Le 22 février 2023 l'Ambassadeur d'#Ouzbékistan en France et au Portugal SEM Sardor #RUSTAMBAEV a reçu les représentants de l'#Association "Water for Karakalpakstan" Monsieur et Madame Nik et Natasha #CHANTEL pour discuter la perspective de coopération.

Me On February 22, 2023 Ambassador of #Uzbekistan in France and Portugal H.E. Sardor #Rustambaev received the representatives of the #Association "Water for Karakalpakstan" Mr. and Mrs. Nik and Natasha #Chantel to discuss the perspectives of bilateral cooperation.





2 partages

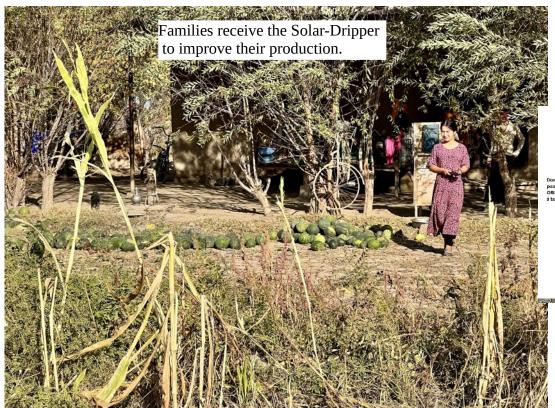














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April 25th in Karakalpakstan 25 Avril 2023 au Karakalpakstan











The ORIAZ Solar-Dripper invented by engineer Robert Cossette in Annecy received the sustainable development award locally in 2003, <u>national eco trophies in 2009</u>, and the SolarImpulse foundation efficient solution label in 2019. The Solar-Dripper is recommended by the Rich Earth Institute (USA).



Robert Cossette's experiences have been the subject of several reports. For example, the ET tests in Annecy and Switzerland, the use of urine as a fertilizer and the planting of Corsican Laricio pines.

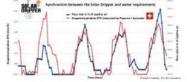
8 Mont Blanc on the ET tests carried out in Switzerland (in french):

FR3 report in 2019 on the cultivation of tomatoes fertilized with urine and eaten in Sweden during the World Water Week.









TV Report on the Corsican Laricio pine plantation









Robert Cossette was a speaker at the Rich Earth Summit to explain how to apply Urine as a free fertilizer with the Solar-Dripper.

He was also invited as an eco-entrepreneur expert speaker at the **Susana** 2021 meeting.

The most efficient drip irrigation system



The ORIAZ Solar-Dripper distributes water only to the heart of the roots.

It is 10 to 100 times more clogging tolerant than conventional drippers.

Its unique bioclimatic regulator lets particles larger than 2 mm and biofilms pass.

You can use rainwater, river water, any type of fertilizer without filtration.

There are no leaky tubing or quantity discrepancies from one plant to the other.

ORIAZ is designed to last 10 years.

ORIAZ



Water flow is not caused by inlet pressure but by temperature cycles naturally generated by the sun.

The rise in temperature causes the trapped air to expand and the water to exit the bioclimatic regulator with an average flow rate about 10 to 1000 times slower than conventional drippers.

Classic drippers have flow rates of 500 ml to 8 liters per hour while the ORIAZ Solar-Dripper provides an average flows of 0.4 ml to 400 ml / hour.

This much slower fragmented watering improves soil oxygenation by avoiding saturation. It also reduces percolation losses.

We measured evaporation loss at only 0.55% through the cone-stake air gap.

ORIAZ Regulator stake



ORIAZ is the only drip system to naturally adapt watering flow with the plant needs. 2 cm 3 cm

4 cm

This unique ability has been demonstrated experimentally in Annecy and in Switzerland.

Solar-Dripper Flow in blue follows Evaporation in red.

Signature and the state of the

Water for Karakalpakstan

Oxygenation

You control the average flow by using a bottle of a size proportionate to the needs of your plant.

For example, an orchid will be watered for a month with a 330 ml bottle for a micro flow.

A more gourmand tomato plant will be watered with a 1 or 2 liters bottle.

The frequency of fillings and the rate of filling make it possible to adjust average watering with the development cycle of your plant.

Up to 99.4% measured efficiency

ynchronized

per-Slow flow



муддати 1 кундан 60 кунгача.



бўлса, шунча тезроқ суғориш мумкин.

Бу Қуёш-томизғичи иқлим сезувчанлигининг ушбу одатий кўрсаткичли эгри чизиғига мос келади.

Нормал тўлдириш: 75% калибрланган баклашканинг кўк нуқтасигача.

Давомийлигини ошириш учун 90% гача тўлдиринг.

Оқим тезлигини ошириш учун 50% гача тўлдиринг.

Бу таъсир боғда тўлиқ бўлиб, бино ичида деразаларнинг масофасига кўра аста-секин камая боради. Шу сабабли, боғда баклажкалардаги сув бир-неча кунда бушаса, ичкарида, қуёш таъсири кам бўлган жойда бир ойга етиши мумкин.

Иссик хавода боғ кўпрок суғорилади.

Булутли хавода ва кишда суғориш табиий равишда мавсум эхтиёжига кўра камаяди ва бир баклажка сув 60 кунга етиши мумкин.

The ORIAZ Solar Dripper has been tested in France, Switzerland, Austria, Canada, USA, Africa, Madagascar and Mexico in extreme drought situations. Tomatoes are sweeter using less water.

Consumers can order ORIAZ by this link (20 € for 6 Solar-Drippers) from our inline web site.

Retailers and distributors can contact us to have the ORIAZ available in store. NGOs can get this essential watering product at the humanitarian conditions. ORIAZ Solar-Dripper can be use for home gardening or tree plantation.

Journalists are welcome to visit us in Annecy or to call us for a ZOOM meeting.

Contact: Robert Cossette +33 4 50 66 55 89 +33 6 76 94 27 97



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