Solar powered pumping

Karin Stark and Jon Elder

Farm Operation

- 2,500 hectares
- 550 irrigated cotton summer
- Dry land wheat winter
- Ground & surface water licence
- 2 deep water bores
- Pumps previously driven by diesel \$3,000 a day





Show me the money

- Indicative price \$900K + GST
- Payback ~ 5 years
- Pump 60% water license using solar only
- 180,000 litres diesel saved x \$1.00/litre* = \$180,000 diesel saving/year
- Payback \$180,000 x 5 = \$900,000



Emission savings

500 tonnes of CO2

per year

= 40 households







Progress





September 27-October 3, 2018 Dubbo Photo New

Solar can replace diesel to access farm water

By JOHN RYAN

AGRICULTURE

THERE really are some amazing environmental champions out there, and Karin Stark is one of them.

A couple of years ago Ms Stark helped organise Australia's first large scale solar irrigation farm field day when she was working for the Department of Environment and Heritage. The day was a huge success, attracting more than 120 people and about 500 phone calls from all parts of the country, along with a huge media splash, all on a budget of \$2000 (which was donated by the Lower Macquarie Groundwater Irrigators Association). Ms Stark had set up a Solar the largest solar/diesel hybrid Irrigators Working Group and the decision to run the field pumping system in Australia, day was made during a tel-

econference with other inter- system, by Australian compaested parties who recognised ny ReAqua, comprises 1500 sel consumption used for that many irrigators were solar panels arranged over an gating the farm by about looking at converting to solar, area of one hectare. The sys- per cent each year and re but too many companies were tem is currently being accred- 500 tonnes of carbon en quoting what seemed like ex-ited as a power station un-the atmosphere annual orbitant prices

		Grisert) Monday 1/10/2018	
	TITE	And Street Street Street	
a clip	2222	Real Drive Brights	

ReAqua pump into the future

IT DIES BATH	oney mailting - three is such-	el proei sistire under its
CAMMACHIELE company link- tipus will save a Nacessnin produces over 175,000 lines of disent annually after san writing the future of wild cheen prompting. The softwy system cars sam of 1000 water parents	sine for houses of products when trapent control annua- nity in well in 1000 beckers of whene and when patient or contrologient land, which failed this year.	Large-scale femerashin to ergy Target (LET), second the Targe (Alter), ange-scal Generative Contributes in power in generation. They are consistented to be \$120,00 usin the cent flar years.
emoning an annine footate of hots: Elder's critican farm Wasseningki som of the large	consumes Sticson Iarm of	-
or integration conceptions in the state. The manager of the holesid	solar insellation fast halved, The new evolution is capable	All marks
parmp raptored planty of an territory, rant unity from white	"At this come of year at \$200	manufactory and
the industry, his also parity ment. Minister for Primary In-	cante autar and 18 per cent dated, has by 7,38ers in our	en colo
dustries and Regional Water Null Man, joined Meather for Parlow Mark Century	setputs hack direct in the af-	TECHNOLOGY FLOW Jar
and Dubles member Ten Grant, 40 the injenting, as and in Chan of the Farstan's Fed	pump will per toolf off in-	Exercises, John Reservember Integrat the hybrid party in
trating Fluts, bitton; and the CEDRO's Gelf, and Re- rewables transmiss insite	"Bu high used of direct	
Prices Brick. Maninging director of Baly uses Brick Lee said for some resi-	at our estimation to abought. The partial solids	-
fident the tectorology would with because dury loss serve is work on president trades.	is a genue changed, his th-	11000
"Mit have been working or this system for 12 country," for sold.	carbon double sintation by	80000
"What was permittently throught of as being torpenal	ward one an agent harmony of greet.	
fele is over preside, and it is	the spream is an occordi-	LARGE SCALE THE STORY

in this field, combining that with her ability to create prac-Inset: Pictured on launch day are ReAqua Managing tical environmental outcomes. That culminated in the switching-on last Friday of

The 500kW solar pumping Regulator. der the Federal Government's

slice



Dubbo Photo News September 27-October 3, 2018

Director Ben Lee, Jon Elder from "Waverleigh", Member for Parkes Mark Coulton, and Irrigation experts Jock Lee and Brock Ryner. Main photo: An aerial view of the launch. PHOTOS: SUPPLIED

'ess clip

It's expected to reduce The solar pumping

loan fr



Sun to the rescue for drought-hit cotton farm as diesel cost slashed



Let the sunshine in

t was a cold-hearted siness decision but we are also really excited about the

environmental benefits.





Launch Day Sept 2018



S

Australia's biggest solar powered irrigation system

THE COUNTRY WEB - your strong - during wer

More information



www.renewablesinagconference.com.au

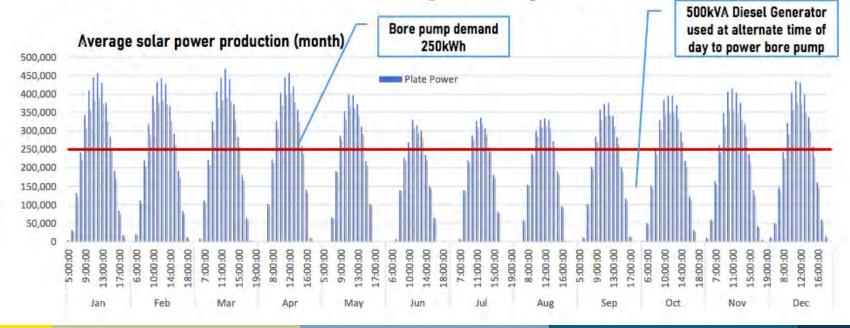
Dubbo 19th May 2021

hello@renewablesinagconference.com.au



Future options

Installed solar capacity 500kWh



Thank you for listening

Karin Stark 0438 187 014

hello@renewablesinagconference.com.au

www.renewablesinagconference.com.au

www.reaqua.com.au

