

## carbonTRACK Africa delivers energy resiliency

carbonTRACK is disrupting the energy sector globally with patented technology that creates a decentralised energy ecosystem by connecting energy generators, energy distributors and energy consumers using highly secure cellular communication. Its award-winning platform unlocks multiple revenue streams for Independent System Operators (ISOs), energy aggregators, renewable energy financiers and energy traders. By integrating hardware, network infrastructure and control systems with its powerful machine learning and predictive engine carbonTRACK provides low cost, reliable and scalable energy intelligence.

With more than 8,500 gateways installed globally, carbonTRACK has one of the largest monitored residential PV fleets across South Africa, New Zealand and Australia (*GTM Research 2018*). carbonTRACK uniquely offers an end-to-end virtual power plant solution, which incorporates hardware, firmware and software.

carbonTRACK Africa's director Tony Botha said the technology was well placed to meet South Africa's need for energy resiliency. *"Load shedding is a daily reality for all South Africans and energy resiliency is front of mind. Businesses need operational capacity and carbonTRACK delivers the solution"* he said. *"carbonTRACK's technology easily integrates with third-party hardware, is retrofittable and has independent cellular communication capability. All this enables its customers to transition from legacy energy systems to the renewable energy systems required for energy resiliency."*

In 2011 carbonTRACK unveiled its prototype gateway at COP 17 (2011 United Nations Climate Change Conference) in Durban, South Africa. Three years of comprehensive-field testing followed. Since then, carbonTRACK has installed its smart gateways across South Africa, Botswana, Namibia, Kenya, New Zealand, Australia and USA.

In 2012 carbonTRACK was selected as the default device for the registration and issue of renewable energy certificates produced by South Africa's Solar Water Heater (SWH) utility. This contributes to the ongoing development of the same Bagasse-based, Photovoltaic, Wind and Hydro facilities which began in 2004.

In late 2018 carbonTRACK commenced trials in the USA with about 300 gateways installed for a range of use-cases in California, Arizona and Puerto Rico. carbonTRACK's smart energy management solution is now commercially available in the USA as a subscription-based platform. This enables solar businesses to successfully transition from a commoditized asset sales model to a subscription-based energy services solution.

carbonTRACK's unique smart energy management technology has won multiple awards including the Silver Award for Energy Efficiency in the [2017 Ecologic Awards](#); Clean Growth category win-[2018 UK Tech Rocketship Awards](#); and Merit Awards in two categories of the [2019 iAwards Research & Development Project and Industry & Prime Industries](#).

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About carbonTRACK <https://carbontrack.com.au/>

carbonTRACK's technology delivers the intelligent energy management systems that facilitate embedded networks, Virtual Power Plants and smart grids, enabling individuals, communities, businesses and countries to harness legacy and renewable energy and harvest the benefits.

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