

Endless Technologies Presentation

Endless (ESC) Technologies

Endless 5G Technologies Priority roll out, per Market over FY2022>2026

1	New Energy Market	5G IoT hardware, AI, to provide m2m Network Platform control of the 55,000 residential houses roll out over 5 years commencing FY2022
2	Mining Market	5G Private Network replacement of existing WiFi cabled in mine technology to provide a targeted 35% operational saving with increased OH&S safety
3	Accounting Practices	5G Network Platform delivered practice management + connected client Industry ERP accounting linked service
4	Utilities Market	5G Network Platform disruption services for pure and waste water, Cool Solar HVAC&R, mobile Telco Services, mobile Internet Services
5	Property Market	5G Network Platform disruption services for strata services, facilities management, trades logistics to site
6	Crypto Market	Specifically a Crypto Exchange to provide BlockChain Security for transactions for customers under the next Generation of Technology triggered by 5G

Mining Private 5G Networks 1

Existing Mining Systems

- Colorado State Uni has good explanation of existing WiFi Systems and their limitations including the important OH&S
- <https://source.colostate.edu/deep-underground-smartphones-can-save-miners-lives/#:~:text=Airwave%20setups%20use%20wireless%20links,similar%20cost%20and%20connectivity%20problems>.

Key conclusions

- Airwave setups use wireless links, like cordless phones or Wi-Fi signals, to span distances of 1,000 to 2,500 feet. But these have limitations too. They depend on wired base stations distributed throughout mines, which are very like the wired-only systems and have similar cost and connectivity problems.
- Doing the same thing underground is much more difficult. Not only are Wi-Fi signals unavailable underground, but other wireless signals, such as those from Cellphone towers, are also not present. Even what signals are there, from communications equipment in the mine, bounce off uneven surfaces, are absorbed by earthen walls and must pass equipment and other obstacles in tunnels of varying dimensions. These complexities make determining a specific location even harder for an electronic device.
- Moreover, sensors and smartphones used in mines must be particularly energy-efficient because recharging stations are scarce. And they must not use much power, to avoid igniting subsurface gases.
- Some prior mine work found a way to [use smartphones to navigate indoor spaces](#). We started by measuring the strength of the Wi-Fi signals the phone was receiving to approximate the distance the phone was from known transmitter locations. We applied a mathematical technique called [Kalman filtering](#) to determine other useful information from additional sensors – such as number of steps taken.
- Ron Hayward – 5G does work underground and therefore edge computing ruggedized hardware will also and this is NEXT GEN Technology

Mining Private 5G Networks 2

Ericsson 5G Mining White Papers

- The new technology is about m2m IoT and we have Sierra Wireless (world's biggest) Global operator Partner of Ericsson 5G.
- <https://www.ericsson.com/en/reports-and-papers/white-papers/private-5g-networks>
2020 why 5G PRIVATE industries
- <https://www.ericsson.com/en/blog/2020/12/the-future-of-mining-hitting-paydirt-with-private-cellular>
Dec, 2020, 5G Mining Paydirt
- <https://www.ericsson.com/en/news/2020/12/ericsson-connected-mining-report>
Dec, 2020, 5G Transforms Mining Industry
- <https://www.ericsson.com/en/cases/2017/boliden>
Dec, 2020, Safety is no accident

Commercial Case

- Australia needs to mine, produce product, and export to world markets
- Australia needs to lead world in environmental mining at highest OH&S safety levels
- targeting 35% savings from existing WiFi technology plus locational connectivity for improved OH&S safety
- 5G Private Network Platform handling total end to end logistics
- Endless Solar increases Endless Technologies 5G targeted savings for Remote located mines
- ESCLV suggests a 50/50 proof of savings JV using its insured/funded facilities for the JV



ACCUTE technologies

In Building plug in, turn on Wi-Fi

- A unique Network Platform for 5G /SD-WAN technology disruption



ACCUTE technologies

Fleets – ruggedized in vehicle, technicians with carry strap for on building site, multi user

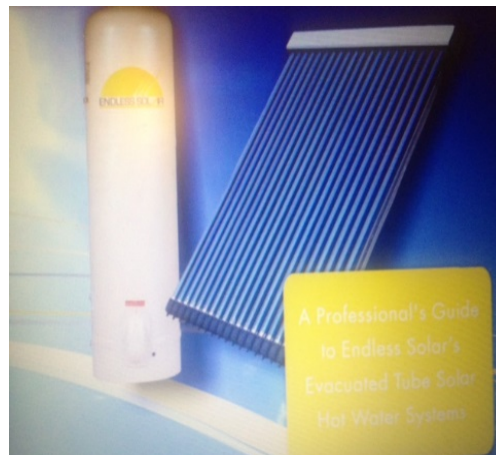
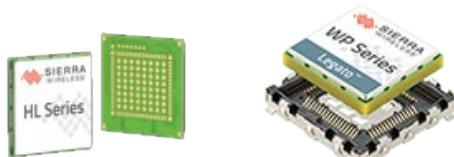
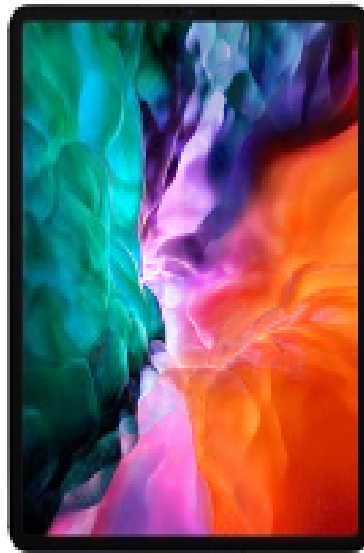
Fixes National Coverage “black holes”



First Release 5G Hardware to match in position Networks

Edge computing/5G enabled - Apple iPhone 12, iPad 12, Microsoft Surface Pro X, Sierra Wireless IoT Controllers, Endless Cool Solar System, representation of a Network Platform that controls all the hardware using its on board APP systems, AI, algorithms, and built in ERP Accounting System

There arrival in late 2020 provides USERS the funtionality benefits of the Networks !!!!



Endless Residential Roll out Model

AUS FY 2022>2026 5 year period

\$ per monthly subscription

Cool Solar Hardware	231.00
Network Platform m2m services	30.00
5G IoT controller kits services	60.00
Residential Property monthly service	321.00

5 year roll out of 55k residential homes in Regional and Community AUS produces

Year	homes	Monthly Recurring Revenues	valued@5 times
FY2022	11,000	\$1,765,500	\$8.8m
FY2023	11,000	\$5,296,500	\$26.4m
FY2024	11,000	\$8,827,500	\$44.1m
FY2025	11,000	\$10,279,500	\$51.3m
FY2026	11,000	\$15,889,500	\$79.4m

Working capital required provided by Lloyds insured & 20year foreign facility of 2% AUS with cost allowance charging at 5% amortised over the engineering life of the Cool Solar product, and white labelled to Partners in patented Countries under a Royalty Joint Venture arrangement similar to Telco Manufacturers

***Commercial / Industrial will follow FY2022 launch of Residential as virtual PowerStation**