Australian Communications 5G Base Station

What is the difference between a 5G base station and a small cell?
Small cells have a lower power outputthan older base stations. This means they have lower EME emissions. 5G base stations can also go into 'sleep mode' when they are not in use. This means their power output and EME emissions will be lower than 4G base stations.

What is a small cell in 5G?
They are smaller than macro cell base stations and have a lower power output. Small cells are a key feature of 5G,the latest generation of mobile networks that are being introduced from 2019. Who installs small cells? In most cases Telstra,Optus and Vodafone will be installing small cells in Australia.

What are the components of a 5G base station?
Baseband Unit (BBU): Handles baseband signal processing. Remote Radio Unit (RRU): Converts signals to radio frequencies for transmission. Active Antenna Unit (AAU): Integrates RRU and antenna for 5G-era efficiency. 2. Power Supply System This acts as the "blood supply" of the base station, ensuring uninterrupted power. It includes:

Are mobile phone base stations EME safe?
All mobile phone base stations,including small cells and 5G base stations,must stay within the safe EME levels. Small cells have a lower power output than older base stations. This means they have lower EME emissions. 5G base stations can also go into 'sleep mode' when they are not in use.

Can a 5G base station go into sleep mode?
The new 5G base stations can go into 'sleep mode' when there are no active users,making their power output levels even lower than current 4G base stations. How do I know if small cells are meeting the standard?

Why is 5G so important?
Part of the reason is 5G. It is the newest generation of technology for mobile phone networks and telecommunications companies are rolling out new small cell infrastructure. This will enable customers to realise the benefits of the new technology for themselves, such as fast downloads, higher data limits, and reduced delay in loading content.

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