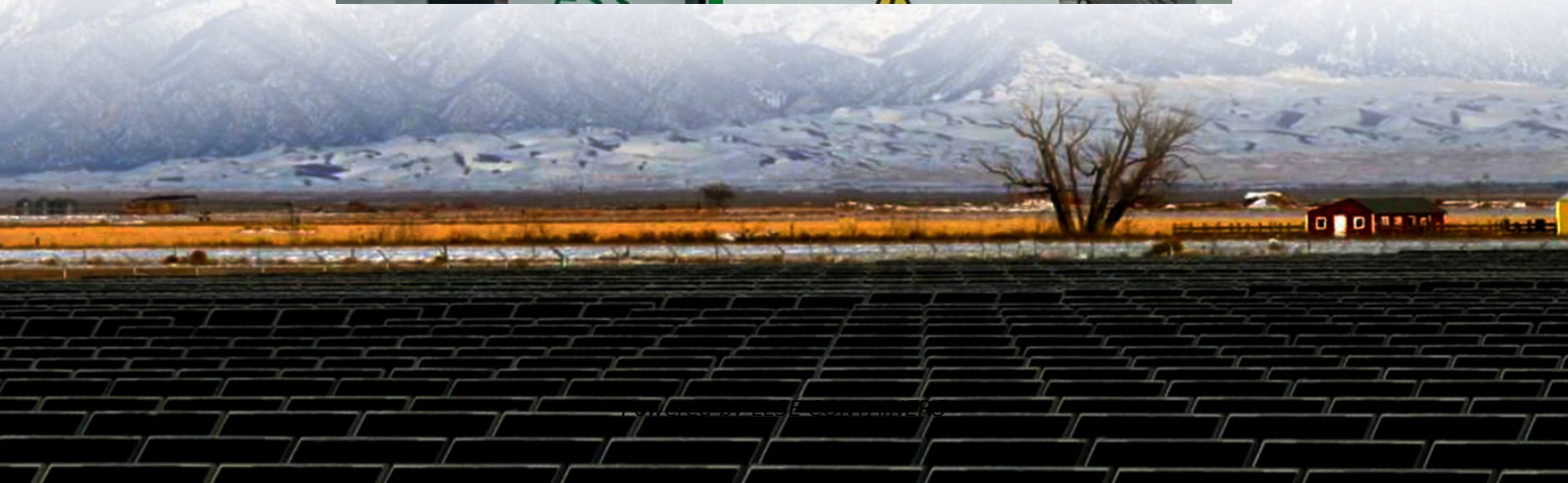


Malta Communications successfully achieved 2MWH at two 5G base stations





Overview

How to evaluate a 5G energy-optimised network?

To properly examine an energy-optimised network, it is very crucial to select the most suitable EE metric for 5G networks. EE is the ratio of transmitted bits for every joule of energy expended. Therefore, while measuring it, different perspectives need to be considered such as from the network or user's point of view.

What is 5G mmWave?

To fulfil such requests, the fifth generation (5G) network evolved. The 5G network operates in the range of 28–60 GHz and this spectrum is referred to as millimetre waves (mmWave). It is due to this extremely high frequency (EHF) band that the 5G network can cater to the needs of today's consumers.

Is artificial neural networks a good power consumption model for 5G AAUs?

In this paper, we present a power consumption model for 5G AAUs based on artificial neural networks. We demonstrate that this model achieves good estimation performance, and it is able to capture the benefits of energy saving when dealing with the complexity of multi-carrier base stations architectures.

Can a 5G network coexist with a non-terrestrial network?

Note that the proposed scheme can be applied to the coexistence between 5G systems and non-terrestrial networks such as satellites, unmanned aerial vehicles, and hot air balloons.



Malta Communications successfully achieved 2MWH at two 5G base



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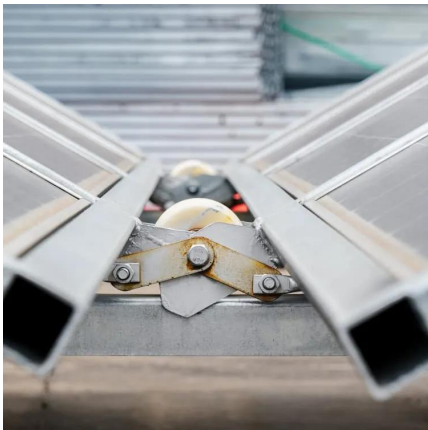
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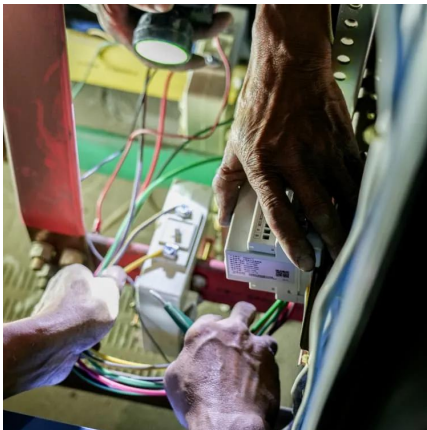
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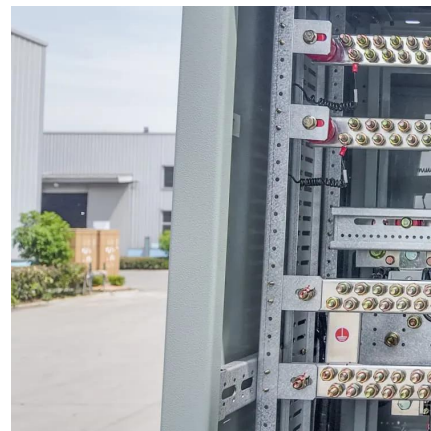


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