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Dearman Engine in Data Centre Cooling

Content :

Online activity has a considerable energy requirement and an enormous environmental footprint. Thus there is a need to raise the potential the way data centers are cooled and therefore the energy they require. Data enables to share information and also to do business. Therefore the digital world needs to be a much greener place to interact. Liquid submersion cooling aims to increase the sustainability of data centers by changing the way facilities are cooled, thereby reducing energy consumption, improving energy security and reducing localized emissions caused by diesel-powered backup generators. Dearman Engine that harnesses the expansion of liquid nitrogen to provide zero-emission backup power and cooling is increasingly being considered for data centre cooling along with the techniques for liquid submersion cooling. This represents next generation data centers that are energy rational, low cost and ultra-dependable. This data centre cooling solution is likely to deliver a holistic solution to green data centers globally. The technologies deliver maximum environmental benefit in addressing socioeconomic urban development challenge. In addition to raising the potential to lead to significant social impact through improved urban air quality, sustainable connectivity and the creation of a green technology commercialization hub, it is likely to create a replicable and commercially viable approach for reconciling urbanization with environmental risk and climate change globally.

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