## 香港綠色 創新大獎 Innovations Great



## 聯治有限公司

**Allied Control Limited** 

應用於數據中心的浸沒式冷卻方案 Application of Immersion Cooling in Data Centers

方案運用了無毒絕緣的氟化液,創建了革新的浸沒 式冷卻系統,冷卻能力比傳統的空氣冷卻系統有效 4000倍(PUE1.01),更可節省99%的用電。

The solution has adopted the non-conductive and non-toxic fluid to create a revolutionary liquid cooling system, which is 4000 times more effective in removing heat than traditional air cooling. The resulted PUE of 1.01 allows saving more than 99% of energy consumption.





兩相浸沒式冷卻設施每年可減少4, 200噸碳排放。能源使用效率 (PUE) 值為1.01,較普遍香港數據中心PUE平均值2.2為低。
Two-phase immersion cooling infrastructure, saving 4,200 tonnes of CO2 emission annually. The Power Usage Effectiveness (PUE) of a data centre after application of this solution is 1.01, which is much lower than the average PUE of 2.2 for other typical data centres in Hong Kong.