

# COOLNOMIX Energy Savings Trial at Singtel Bedok Data Center

In collaboration with Anvita Engineering, a performance trial was conducted to assess the energy-saving potential of COOLNOMIX technology at Singtel's flagship data center in Singapore. The trial, held in Singtel's East Wing LV Switch Room, aimed to achieve at least 25% energy savings on air conditioning units.

Two COOLNOMIX AR-0C units were installed on Daikin VRV air conditioners and tested over three distinct periods to gauge baseline consumption and performance with COOLNOMIX activated. In bypass mode, the average daily energy usage was recorded at 21.36 kWh. With COOLNOMIX activated, daily consumption dropped to 15.25 kWh, resulting in an energy savings of 28.6%. When the temperature setting was adjusted slightly higher to 26°C, the savings reached 33.6%, reducing daily usage further to 14.18 kWh.

The trial not only met but exceeded the target savings, demonstrating COOLNOMIX's capability to optimize energy use in air conditioning systems. Based on the positive results, a full-scale rollout proposal is underway, aligning with Singtel's sustainability goals by reducing both energy costs and CO<sub>2</sub> emissions. This successful trial highlights COOLNOMIX's effectiveness in high-demand environments like data centers.