

Supermarket Upgrade *avoids 10% total energy.*

Refrigeration systems use the most power in your supermarket. This case study shows how upgrading the condenser fans in your refrigeration system positively impacts your energy bill.

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Upgrade at a glance.

Atherton Fresh St. Market IGA, a supermarket in North Queensland, has a longstanding focus on quality and innovation, coupled with its 2800m² size, busy trade, complete retail offer and tropical climate – it was the ideal candidate to flagship ebmpapst's new EC AxiBlade in Australia.

All 16 standard staged AC fans, on 4 racks, were upgraded to variable speed-controlled EC AxiBlade fans. ebmpapst monitored one medium temperature rack with 5 fans, and verified the avoided energy use over a period of 12 months, using regression analysis, the result obtained is shown in the graph.





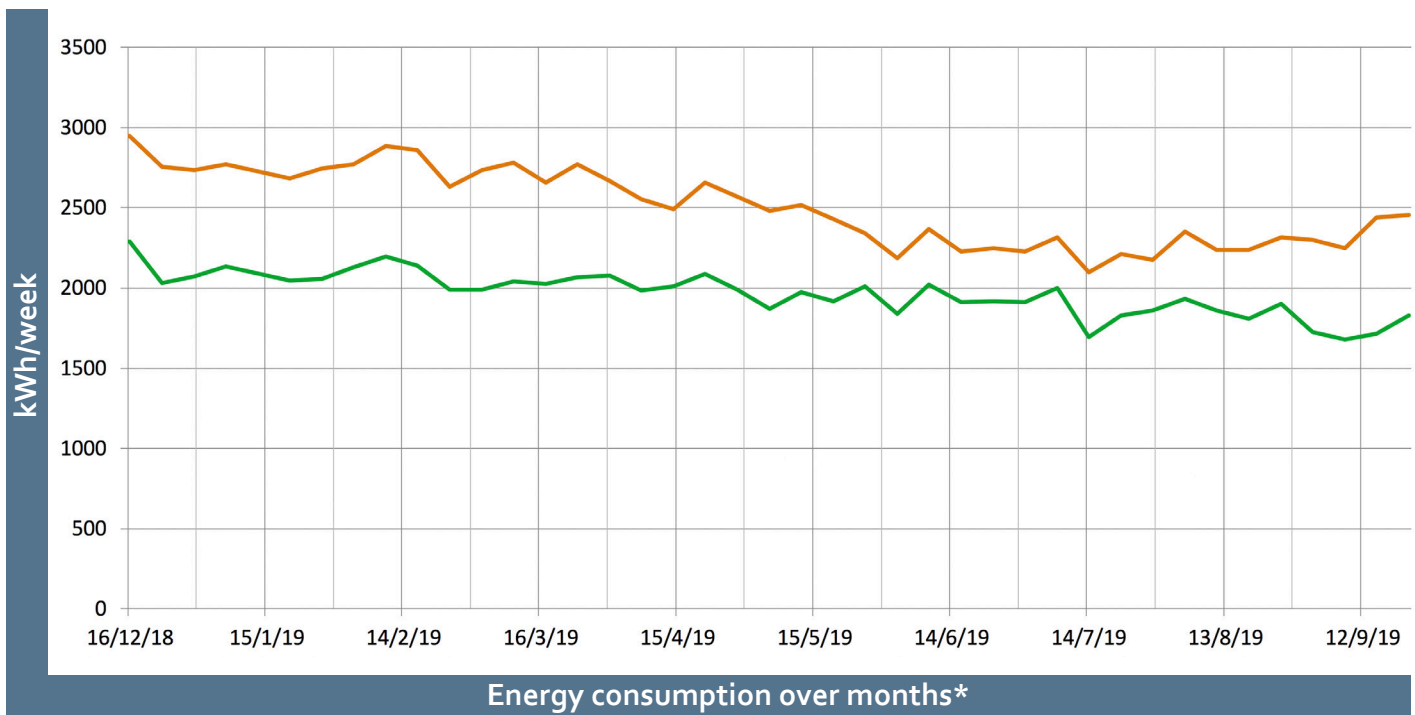
166.4MWh/Year avoided.

166.4 MWh/year of electricity 	154 acres of forest carbon capture 	117.65 metric tons of CO ₂ 	25 passenger cars driven 
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A single fan saves 10.4 MWh/year. For 16 upgraded fans this translates to 166.4 MWh/year or 10% reduction out of the supermarket's total energy consumption of 1,587 MWh/year.

EC Upgrades – Actual consumption vs baseline consumption.

 before EC Upgrade  after EC Upgrade



* Medium temperature rack power consumption includes: compressors & condenser fans



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