

STEERING BETTER AND GREENER SHIPBUILDING.

Background

Austal is an Australian shipbuilder and defence prime contractor specialising in the design, construction and support of some of the world's most advanced defence and commercial vessels.

Austal's product range includes naval vessels, high-speed passenger and vehicle ferries, and specialist utility vessels for offshore windfarms and crew transfer.

Data scientists at Austal perform resource-intensive computational analyses to improve the efficiency and performance of its industry-leading vessels.

Challenges

With a need to bolster its on-premise resources, Austal required quick access to different hardware and an efficient, flexible cloud platform to meet its increasing computational demands while reducing its greenhouse-gas emissions simultaneously.

Solutions

We provided Austal data scientists with our tailored high-performance computing (HPC) expertise and bespoke optimisation support to ensure their vessel-design software and workflows could efficiently leverage our green cloud platform, DUG McCloud, powered by state-of-the-art hardware.

Results

Driven by our bespoke HPC solution and expert support, Austal has fully embraced cloud computing for its research and design processes.

Austal credited our HPC and expertise for supporting its research papers.

Slashing power consumption by up to 51%, our 'DUG Cool' immersion-cooling technology helps Austal meet its environmental, social and governance (ESG) requirements.