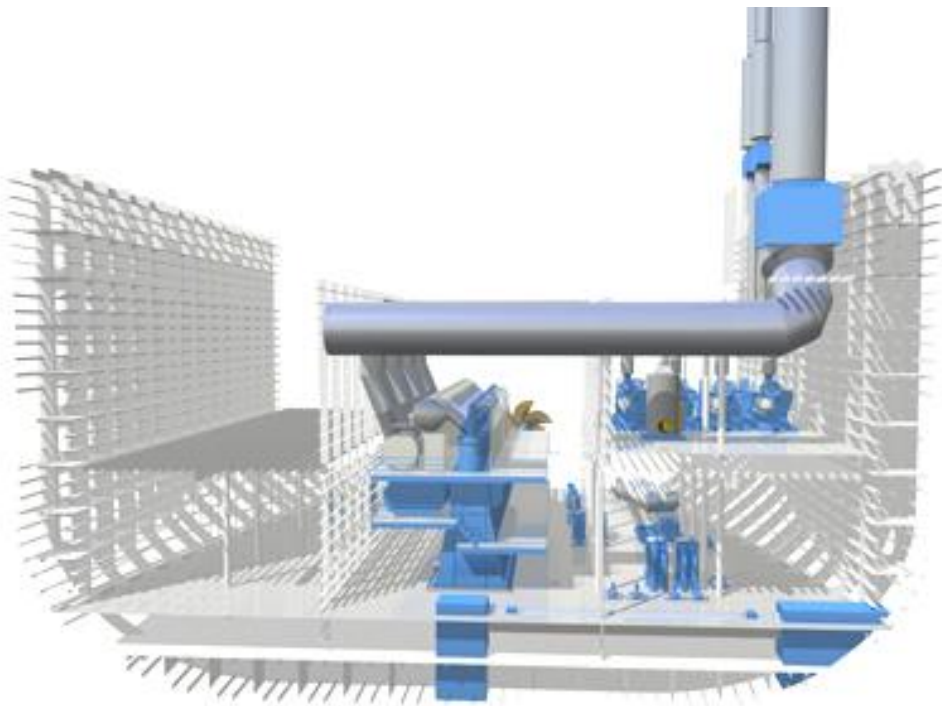


The use of lightweight structures can reduce the ship weight. In structures that do not contribute to ship global strength, the use of aluminium or some other lightweight material may be an attractive solution.

The weight of the steel structure can also be reduced. In a conventional ship, the steel weight can be lowered by 5-20%, depending on the amount of high tensile steel already in use.



A 20% reduction in steel weight will give a reduction of ~9% in propulsion power requirements. However, a 5% saving is more realistic, since high tensile steel has already been used to some extent in many cases.



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