

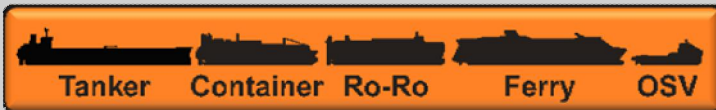
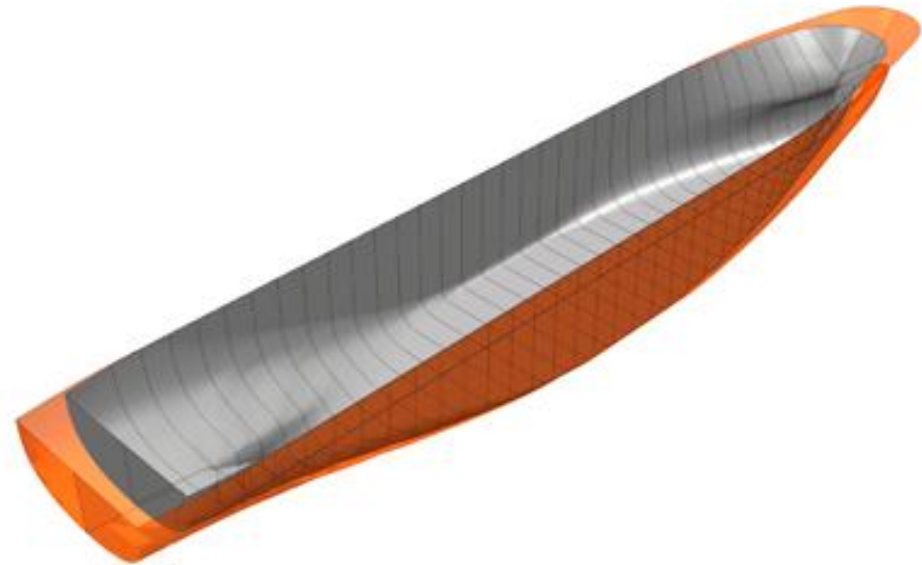
Finding the optimum length and hull fullness ratio ( $C_b$ ) has a big impact on ship resistance.

A high L/B ratio means that the ship will have smooth lines and low wave making resistance. On the other hand, increasing the length means a larger wetted surface area, which can have a negative effect on total resistance.

A too high block coefficient ( $C_b$ ) makes the hull lines too blunt and leads to increased resistance.



Adding 10-15% extra length to a typical product tanker can reduce the power demand by more than 10%.



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