

# HG LED upgrade

SAVE FUEL AND REDUCE EMISSIONS - UPGRADE TO LED LIGHTING

Conventional lighting, from search lights and floodlights to technical and general accommodation lightning, wastes large amounts of energy. Upgrading to LED lighting will not only save cost and reduce carbon footprint, it also makes your vessel a safer place to work. EU's Restriction of Hazardous Substances (RoHS) also bans mercury lamps for general lightning by mid 2023.



## Key Benefits

- Reduced cost and emissions with up to 85% energy savings\*
- Up to 5 times longer lifetime compared with conventional lighting
- Increased crew alertness and safety with improved light quality
- Reduced maintenance cost
- Simple and cost-effective replacement



## Upgrade alternatives

There are three alternatives for upgrading to LED, each with their unique set of benefits:

	Alternative 1 <b>Light source replacement</b> Optimal investment cost 15-18% energy savings	Alternative 2 <b>LED kit installation</b> Optimal value for money 40-50% energy savings	Alternative 3 <b>Complete luminare replacement</b> Optimal operating cost 50-85% energy savings
<b>Energy saving</b>	● ● ○ ○ ○	● ● ● ● ○	● ● ● ● ●
<b>Product lifetime</b>	● ● ○ ○ ○	● ● ● ○ ○	● ● ● ● ●
<b>Ease of installation</b>	● ● ● ● ●	● ● ● ● ○	● ● ○ ○ ○
<b>Payback time</b>	● ● ● ○ ○	● ● ● ● ●	● ● ● ● ○

\* Source: Glamox International AS