STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

ReNew

INDUSTRY LEADING EQUIPMENT REMANUFACTURE

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AVAILABLE ON-SITE OR AT STOANE LIGHTING HQ (EH20)

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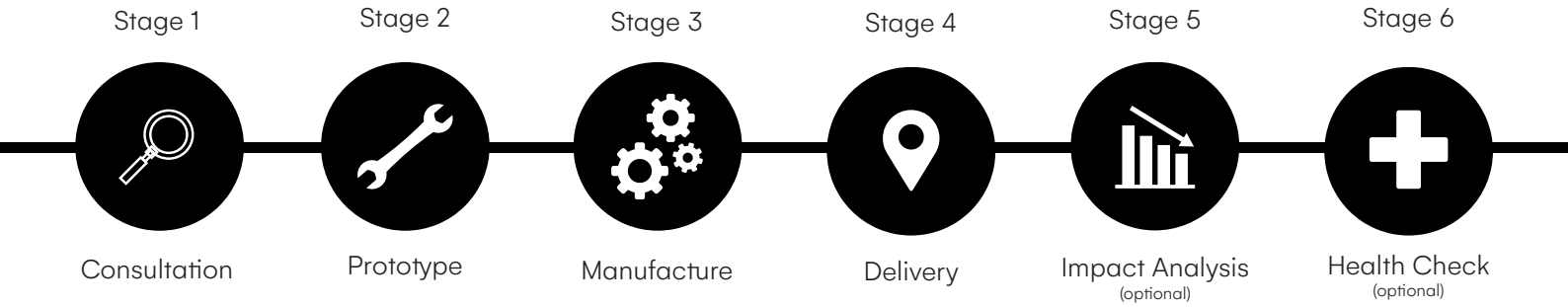
What is ReNew?

ReNew is an award winning service by Stoane Lighting that has been set up to formalise our response to the increased interest in repair and upgrade opportunities, whilst addressing the increased need to reduce energy and carbon consumption. ReNew enables a Circular Economy by keeping resources in use for as long as possible by repairing, repurposing, and upgrading equipment to extract their maximum value without compromising on quality, compliance or warranty.

Stoane Lighting products are designed and hand made to last. They can be easily disassembled with common tools and have internal components replaced and upgraded. Stoane Lighting pledges a 25 year Duty of Care. The foundation to this is the deployment of Circular Economy principles in product design and the provision of a repair and upgrade service to support them.



1. High level consultation providing recommendation and feasibility of remanufacture, product design required, recommendation for factory or on-site work.

2. Summary evaluation of technical benefits and energy saving.

3. Rebuilt to all relevant regulatory standards and certified as CE/UKCA compliant. Responsible recycling of redundant parts.

4. Full renewal of 5 year warranty and further 20 year Duty of Care.

5. Optional detailed product and/or project impact analysis available via our in-house team. Choice of service and cost vary depending on client requirement. May be used to support a funding application.

6. Optional service to co-ordinate with facilities team to review condition of lighting equipment post-warranty.

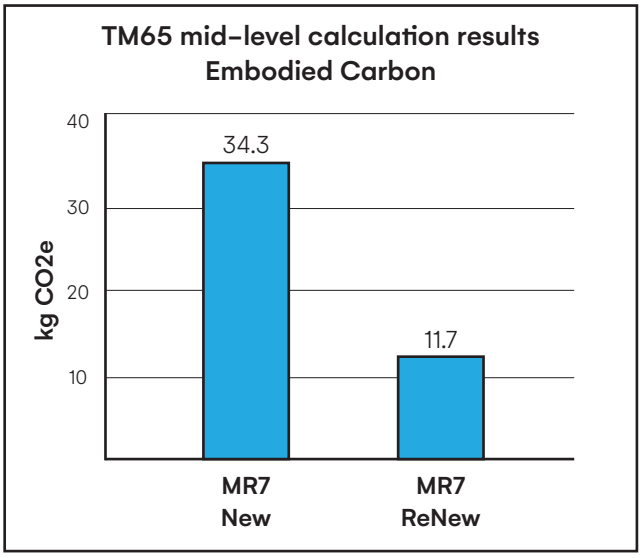
Benefits:

- Cost saving (capital and operational)
- Embodied carbon saving
- Energy saving
- Material saving
- Continuity of scheme design
- Matching or improving conservation requirements e.g. potential to extend exposure thanks to quantifiably lower lux dosage to artifacts
- Matching or improving visitor experience e.g. potential to extend exposure thanks to new control capabilities
- Maintenance cost reduction and time benefits

Case Study: The Holburne Museum, Bath

The halogen lighting scheme was reviewed as part of a wider energy use consultation. The Holburne Museum secured funding from The Wolfson Foundation to retrofit the lights and it was agreed that Stoane Lighting's ReNew service would be employed to upgrade the light sources from halogen to LED. Light output and beam control from the original equipment were taken as a baseline specification for the remanufactured luminaire. The remanufactured product needed to have equal or equivalent performance and flexibility.

It was agreed that in order to minimise the museum downtime, the work happened on-site with all quality systems in place to provide a fresh 5 year warranty. The museum are delighted to have chosen a sustainable route to upgrading their scheme, and are benefitting from cost savings, energy savings, reduced maintenance and conservation improvements.



ON-SITE

Case Study: St Giles' Cathedral, Edinburgh

Between 1999 and 2008 Stoane Lighting worked closely with design teams to develop and deliver a spectacular lighting solution for the cathedral, the most involved being 24 bespoke chandeliers. In 2023, a carefully planned project to upgrade the halogen light sources and control system was initiated.

Stoane Lighting's own design department worked on a retrofit solution using a chandelier from site and archive technical drawings. Prototyping, testing and pre-assembly was carried out in factory conditions before a team of engineers worked on-site in the ReNew mobile workshop. The chandeliers were removed one by one and carefully rebuilt alongside lighting for all other areas in parallel. The team reused as much of the existing metalwork as possible and recycled any that was no longer needed.

Significant energy savings were made as well as dramatic reductions in maintenance requirements going forwards. Similarly, new control opportunities were introduced by incorporating new DALI and wireless control capability. Crucially, thanks to Stoane Lighting's mobile capability and close coordination with client and contractor, the work was carried out with minimal disruption to the Cathedral's operations and completed well within the anticipated timeframe.

Case Study: Château de Versailles, France

Stoane Lighting worked from 2014 to supply over 300 bespoke flood lights to the sculpture gardens of the Château de Versailles. The Platypus used a rectangular super high output LED module with wall wash reflectors. Unfortunately these modules were later discontinued and are now no longer supported. In order for us to uphold our 25 year Duty of Care pledge, we needed to work out a replacement light source for a small number of fittings. We worked with our suppliers to develop a new light source with technical performance as close as possible to the original.

Joseph Frey, Lighting Designer:
“As designers we wish our schemes to be immaculate and untouched from day one until forever. The reality is that equipment in use will age, will suffer wear and tear and will suffer misuse and accidents.

With no means to repair or upgrade a scheme, it can rapidly deteriorate or become inconsistent in appearance. A refreshingly positive example of circularity principles in action was Stoane Lighting stepping in to not only refurbish these luminaires to their original quality, but also design and produce a brand new, more efficient LED module to replace the one that has since been delisted. This secures the quality of our design long into the future.”

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Why ReNew?

- Counteract the general effects of time
- Repair, deep clean, possible repaint, electrical safety checks
- Replace components that will be nearing end of life (especially LEDs but also drivers)
- Benefit from efficacy improvements in LEDs, drivers and optics
- To combat regulatory bans on halogen light sources
- If the luminaires are to be used in a new area or the existing one is to undergo a change in use
- Addition of luminaire based wireless control
- Demonstrable environmental impact reduction when compared to replacing luminaires with new

In Summary:

PRODUCT	SERVICE	SUPPORT
Flexibility in luminaire design with multiple fixing holes, ample leeway with mechanical space and thermals. Components are made in-house with extensive manufacturing capabilities, ownership of IP and control of supply lines, or are locally sourced. This allows for repair to original specification or upgrade with light qualities, beam width, control options or mounting methodology.	We can carry out luminaire upgrades in our factory; in fact we have been doing so since 2003. What if a factory return is impossible? We have a mobile workshop which can travel to an end-user where downtime needs to be kept to a minimum. Assembly work can be carried out in advance to reduce disruption. All testing and quality systems mimic those at HQ.	We will provide a high level consultation offering recommendations and feasibility of remanufacture, design required, plus a recommendation for factory or on-site work. This will include a summary evaluation of technical benefits and energy saving. A new 5 year warranty will be provided at the end of the work. A detailed evaluation service is also available including an embodied carbon quantification report (cost available on request).

Contact:

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5 Year Warranty
25 Year Duty of Care

Making the earth connection

Available environmental methodologies:

Circularity assessment (TM66)
Embodied carbon assessment (TM65.2)
Life Cycle Analysis (LCA)
Environmental Product Declaration (EPD)

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