

Remnant Life Assessment

RLA is the prediction of the residual operating life of equipment

RLA for rotating equipment is a holistic analysis of the machine's conditions, safety, applicable regulations, present and future operating requirements, obsolescence/availability/lead time of spare parts, maintenance strategy, and more. This infographic shows the overall results of a past study carried out by MACH10 and covering the critical rotating equipment of offshore installations.

415
EQUIPMENT

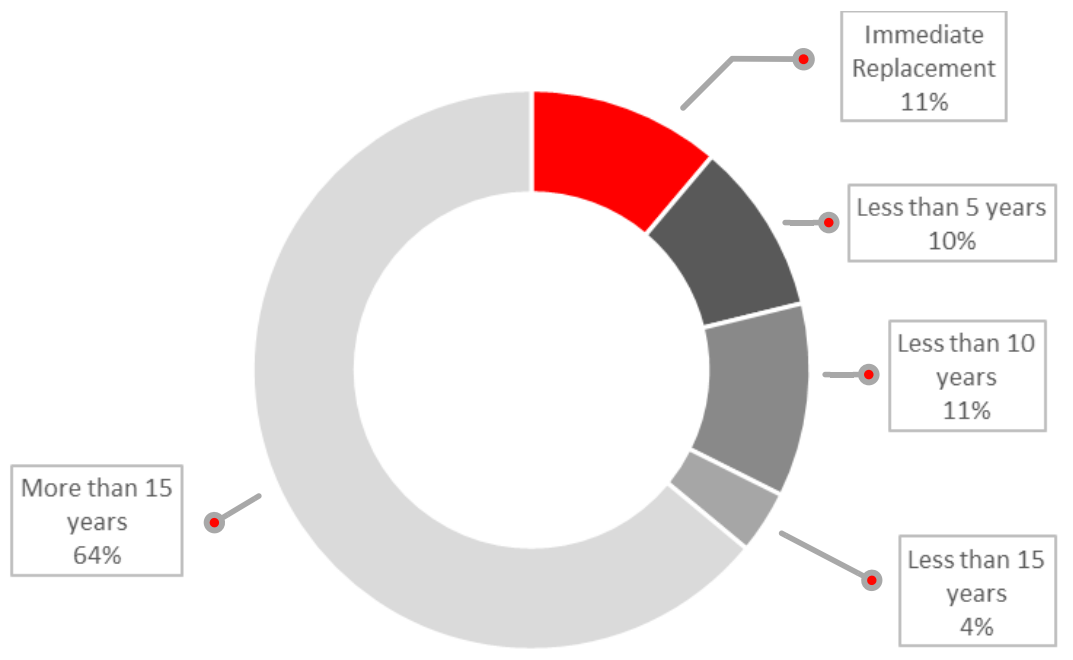
50
COMPRESSORS

7
STEAM TURBINES

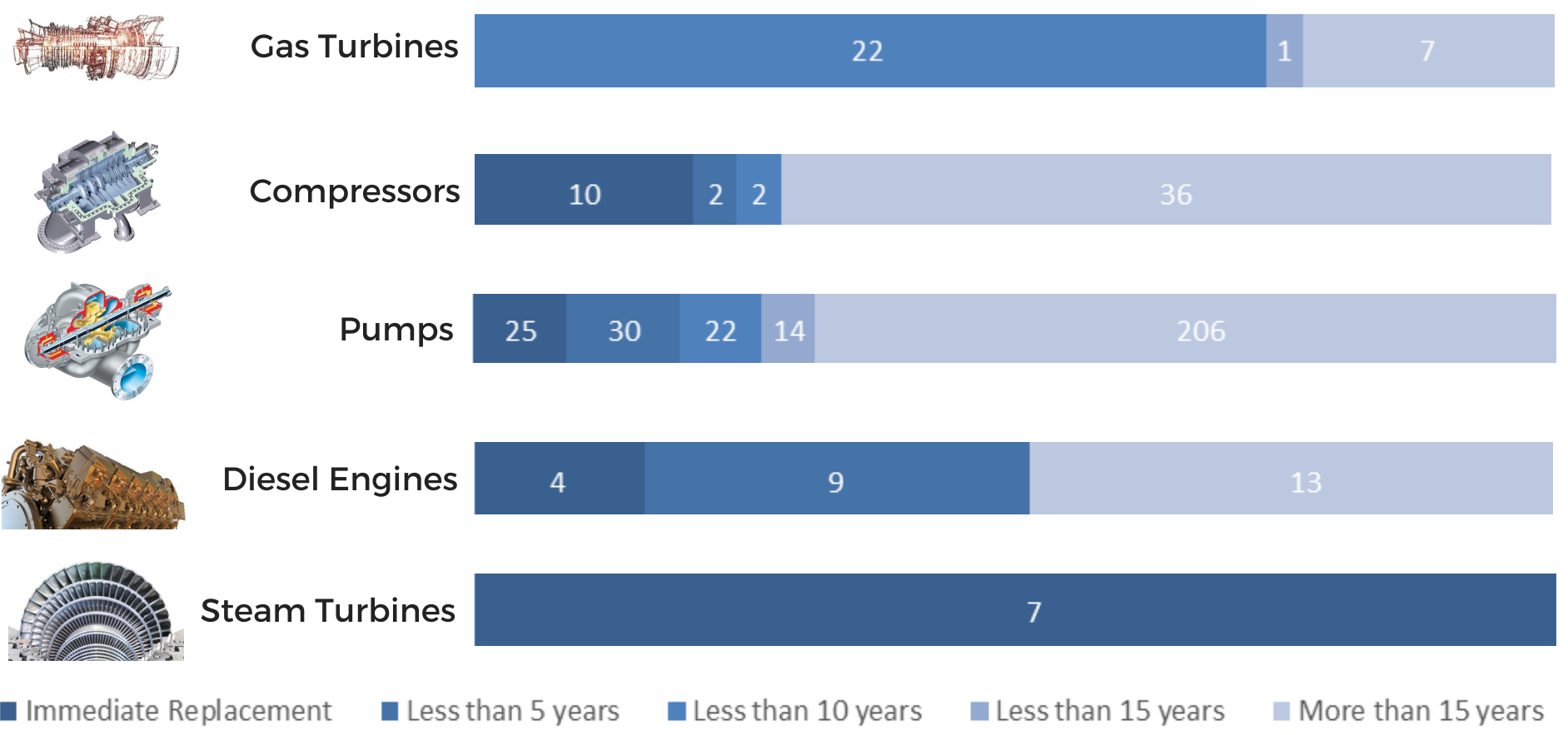
26
DIESEL ENGINES

30
GAS TURBINES

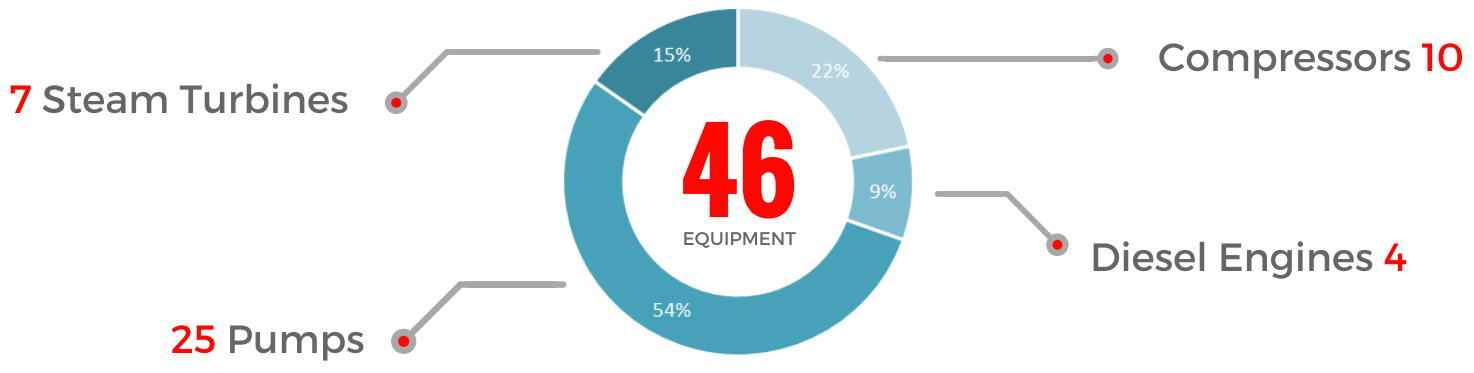
302
PUMPS



Calculated Remnant Life by Equipment Type



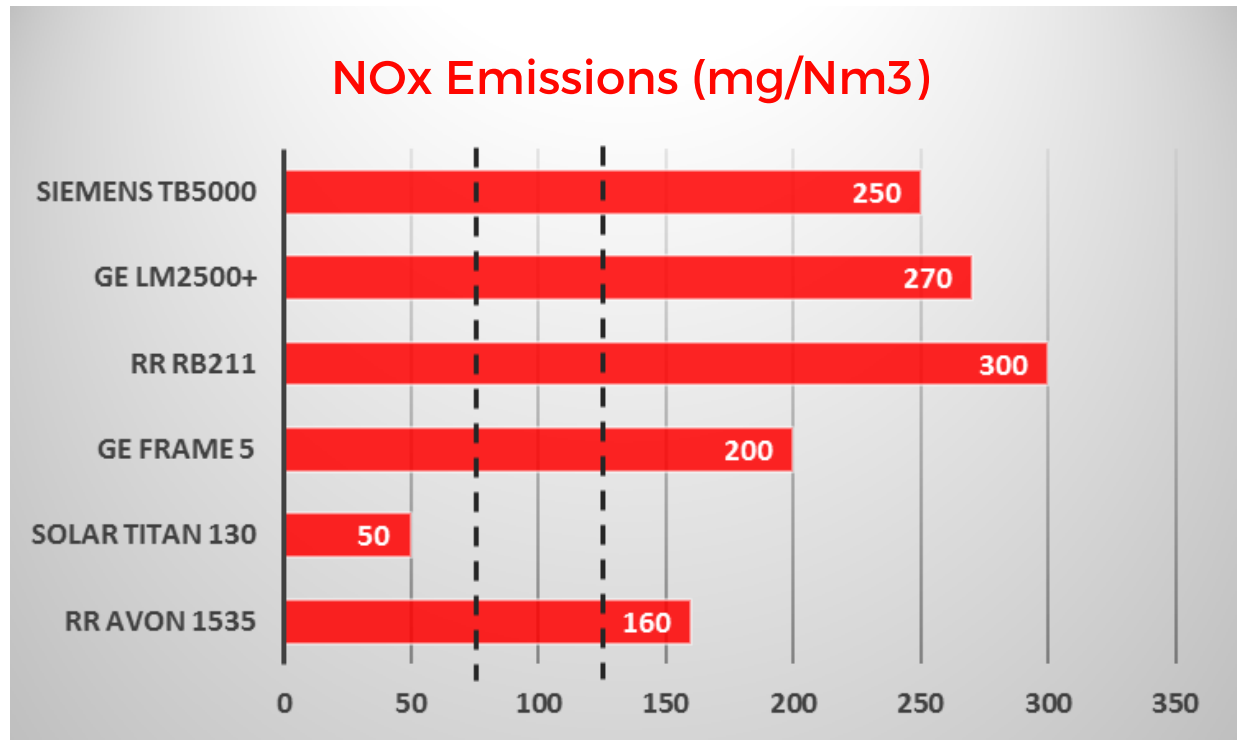
Equipment to be Immediately Replaced



Gas Turbine Obsolescence due to Regulations on Emissions

Most of the plant's GTs will become obsolete in the near future due to the emissions exceeding the legal limits

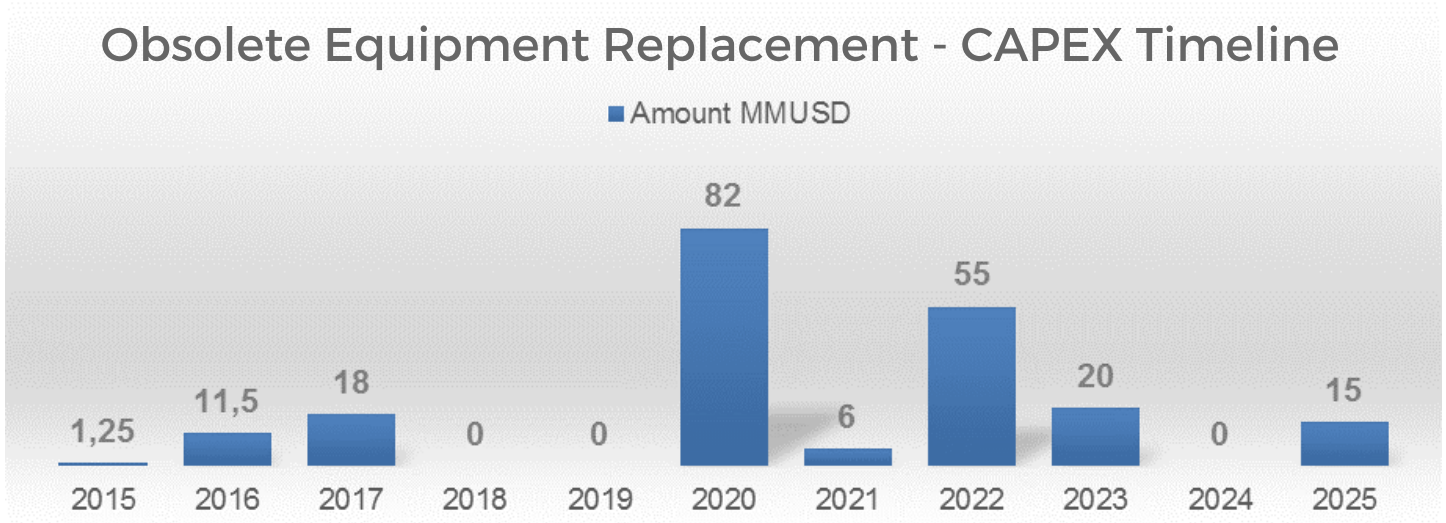
- 70 mg/Nm3** Limit for GT installed after 2006
- 125 mg/Nm3** Limit for GT installed before 2006



CAPEX Timeline

Obsolete equipment requires replacement planning. CAPEX forecast is an integral part of the RLA study.

(study date 2015 - OPEX excluded from the timeline)



RLA Lifecycle

A RLA should follow a continuous improvement process to bring lasting benefits.

The recommended update interval of the study is 3-4 years, however it could be shorter based on the equipment behaviour (i.e. sudden drop in performance), inspection findings and plant events.

