

WÄRTSILÄ 31SG PURE GAS ENGINE FOR MARINE 瓦锡兰船用纯气体发动机

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Huang Wen Bin
Area Manager Sales Engineering
Marine Business

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The Wärtsilä 31SG builds on our unmatched 25-year pure gas engine pedigree and the 2,000 pure gas engines delivered by Wärtsilä.

瓦锡兰W31SG的研发基于25年纯气体发动机血统以及超过2000台气体发动机的交付经验

The Wärtsilä 31SG is based on the successful Wärtsilä 31 product platform which includes the world's most efficient 4-stroke diesel engine – as recognised by Guinness World Records.

瓦锡兰W31SG的研发基于瓦锡兰W31发动机平台,一款获得世界吉尼斯纪录效率最高的发动机







Cylinder configurations	8V, 10V, 12V, 14V, 16V
Output, mechanical	4240 – 8800 kW
Cylinder output (60/50Hz)	530/550 kW
Genset application	Yes
Variable speed propulsion	Model year 2022
Hybrid integration	Yes

First W31 lab Marine W31 dual engine starts fuel & diesel Energy W31SG Marine W31SG Pilot W31SG market launch market launch market launch marine deliveries

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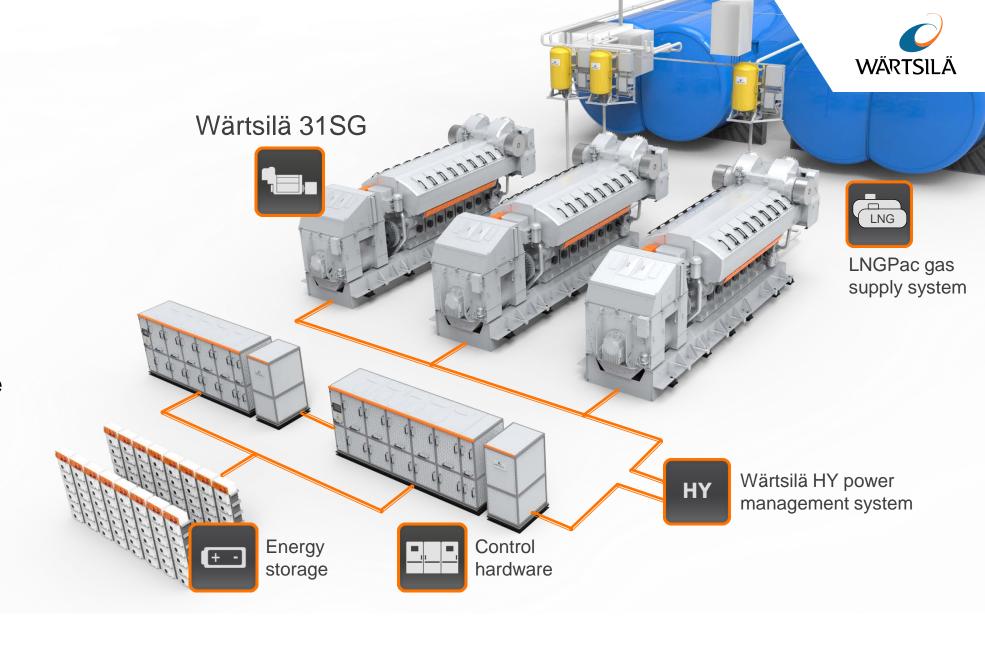
WÄRTSILÄ 31SG HYBRID INTEGRATION

Optimize operating load, minimize running hours with peak shaving



Secure redundancy while still operating efficiently with instant backup



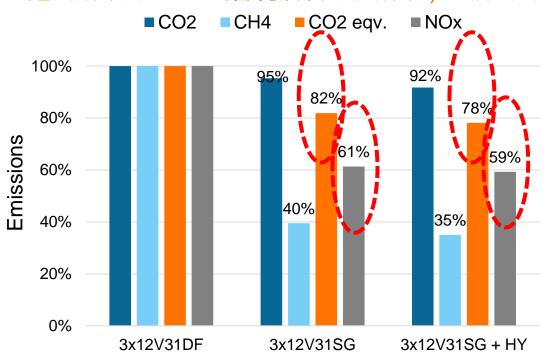


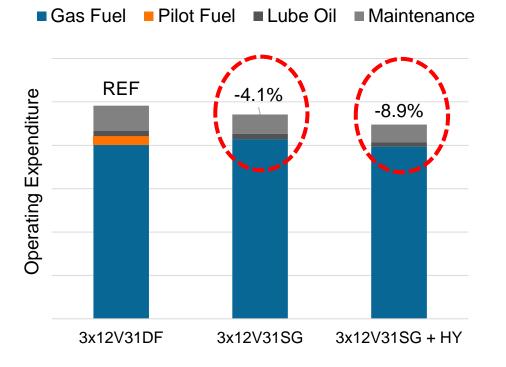




RESULTS 分析结论:

- 18% lower greenhouse gas emissions with SG, 22% lower when including hybrid solution
- 纯气体发动机方案温室气体排放降低18%, 混合动力系统配置下温室气体排放降低高达22%
- 40% lower NOx emissions / 氮氧化物排放降低40%
- 4% lower OPEX with SG (red. fuel bill and maintenance), 9% lower when including hybrid solution
- **运**营成本降低4%(含耗油及维护成本),混合动力系统配置下运营成本降低可达9%





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environmental footprint for operation in areas with a secure gas supply 瓦锡兰W31SG纯气体发动机,提供给供气充沛地区客户经济性最优的环保产品



