



# ENVIRONMENTAL BENEFITS OF GATE RUDDER SYSTEMS

- Enable increased energy efficiency
- Enable low GHG emission
- Reduced underwater radiated noise
- Shoreline and seabed friendly:  
Low wake wash
- Overall reduced pollution from  
waterborne transport



University of  
**Strathclyde**  
Glasgow

**CETENA**

**STONE**  
MARINE  
PROPULSION

**danaher**

**NAS**  
NAVAL ARCHITECTURAL SERVICES

HYDROTECHNIK  
NAUTICAL DESIGN  
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Lloyd's List Intelligence  
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