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## **RINA/IMarEST Technical Presentation**

### **Electric-drive Technology for Tugs—The Future is Now**

<b>Presenter</b>	Mark Todd Damen Shipyards Representative Asiaworld Shipping Services
<b>Date</b>	Wednesday 7 September 2022
<b>Time</b>	6:30 pm AEST
<b>Venue in person</b>	Harricks Auditorium, Engineers Australia, 44 Market St, Sydney
<b>streaming</b>	Check URL and password for the webinar in confirmation email

Registration for the presentation is required (see below).

Using the Damen Electric Reverse Stern Drive (RSD-e) 2513 Tug *Sparky* as the example, this presentation will focus on the steps taken to design *Sparky* to meet Ports of Auckland sustainability and operational requirements including an assessment of the operating profile, determination of suitable power and battery requirements, re-charging arrangements and the likely future path for harbour towage.

**Registration** Registration for this presentation may be completed at  
<https://www.engineersaustralia.org.au/event/2022/08/electric-drive-technology-tugs-44821>

Click on *Register*, fill in your email address and click *Submit*. Fill in all the required details (put *Nil* for those which do not apply), agree to the T&C and click *Next*. Select either the webinar or in-person presentation (both showing \$27.27 for non-EA members) and click *Next*. Review the details and click *Next*. Enter the discount code RINA123 to reduce the cost to zero and click *Next*. Click *Submit*.

When registered, you will receive a confirmation email containing the URL and password for the webinar, or further details for in-person attendance.

We look forward to you joining the presentation.