

# NEW VESSEL PROJECT UPDATE

MARCH 2024



## SHIPYARD CONTRACTS SIGNED

In January, we reached the most significant milestone in our vessel replacement programme to date, as we signed contracts with Piriou shipyard to bring two brand new vessels into service on the Penzance to the Isles of Scilly route in 2026.

Signing these contracts is a vital step for the project, allowing work to commence at Piriou's shipyard and helping to ensure long-term security for the economy of the islands. We would like to take the opportunity to thank everyone for their interest, messages and constructive feedback on our plans so far.

We are aware that you will want to be kept up-to-date with our progress and we will set out some of the steps we're taking in this newsletter. We understand the importance of our services for islanders and take our responsibilities very seriously. The plans we have put in place give long-term assurances to communities both on Scilly and in Cornwall, communities this Group was set up to serve over 100 years ago.

## INTRODUCING CHRIS LINGHAM



As part of our efforts to bring new vessels to the route, we've been putting in place an expert team. Not only has this been for the planning phase of our projects, but it will also include some of our team shortly heading out to Vietnam to oversee the build of Scillonian IV and the new freight vessel.

Chris Lingham, who was appointed as project manager says:

"It is highly interesting and satisfying working together with the various architects, engineers, regulatory authorities and other stakeholders to develop the designs for the vessels. I look forward to continuing this design work over the coming months, as we work toward construction beginning in June this year."

### WHAT IS CHRIS' ROLE AS PROJECT MANAGER?

- Development, review and approval of the vessel designs as they progress.
- Arranging vessel certificates with the Maritime and Coastguard Agency (UK flag state), with oversight for certification of the vessels by Lloyds Register.
- Deciding upon suppliers, with subsequent verification of material quality and equipment used at build.
- Overseeing the build project to ensure compliance with the vessel specifications, quality of work, decisions for variations, and adherence to the build plan and key milestones.
- Responsible for the preparation of the new vessels to commence service, including crew familiarisation, implementation of vessel management systems and stock requirements.
- Collate feedback from ISSG project team members for design consideration with Piriou Shipyard's naval architects and engineers.

# WHAT'S BEEN HAPPENING SINCE CONTRACTS HAVE BEEN SIGNED?

The new vessel team has been busy with work ongoing to develop the vessel designs, including meetings at Piriou Concarneau that included design review of the vessels hydraulic and electrical systems. The project plan for the vessels was also reviewed together with management from Piriou shipyard, including familiarisation with the yard's document control and management software system.

Considerations for future proofing of the passenger vessel, particularly with preparation for the future installation of battery power units, is ongoing. A submission for design review by Lloyds Register has been made, to establish the requirements.

During April we will be back on the islands, updating you further on the new vessel project whilst providing a detailed and technical presentation of both Scillonian IV and the new freight vessel.

## DESIGN ELEMENTS - HULL VANE®



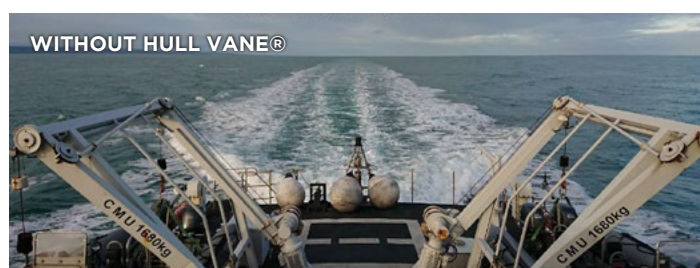
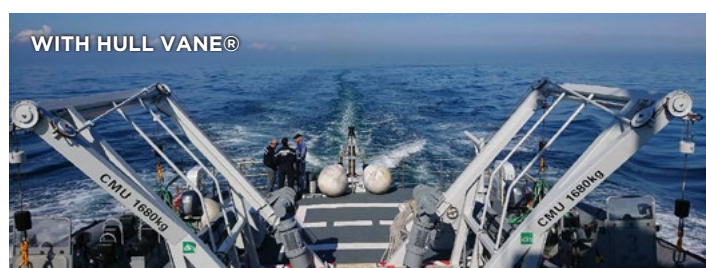
We have been working closely with Piriou developing and finalising the vessel designs ready for building to commence in June. The Scillonian IV design progression has seen the introduction of a Hull Vane®.

The Hull Vane® consists of a submerged fixed wing at the stern of the vessel. A wing placed in a flow generates two forces: a lift force and a (much smaller) drag force. The flow under the aft ship is not horizontal but angled upwards. When designed well, the force generated from the Hull Vane®, which is the sum of the lift and drag force, is angled forward.

This means that it has a vertical component (lifting the aft ship), as well as a net forward horizontal component (pushing the ship forwards).

Model tests in waves have shown that the Hull Vane® significantly reduces ship motions such as pitching, heaving, rolling and yawing, and thereby reduces the added resistance from these motions by 10 to 30%.

Furthermore, when the ship is pitching, the Hull Vane® produces more forward thrust, an effect which is called the “pumping effect”, as it is similar to what surfers do on surfboards equipped with hydrofoils.



# LLOYDS REGISTER



Lloyd's Register: first for trusted advice in the maritime industry

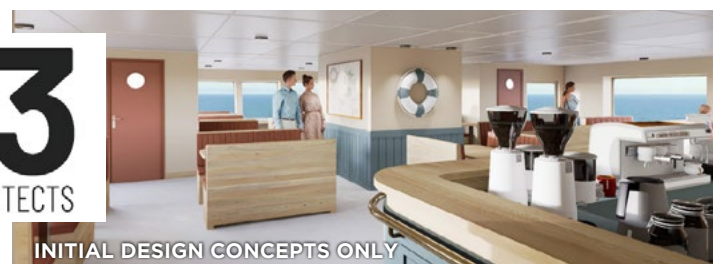
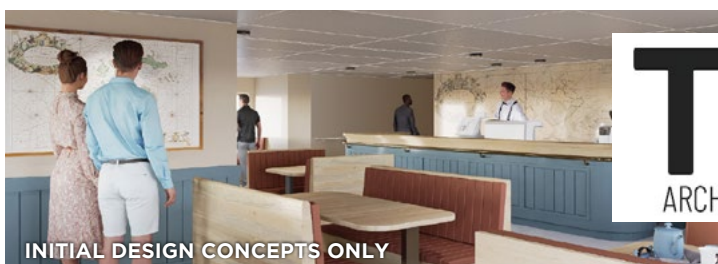
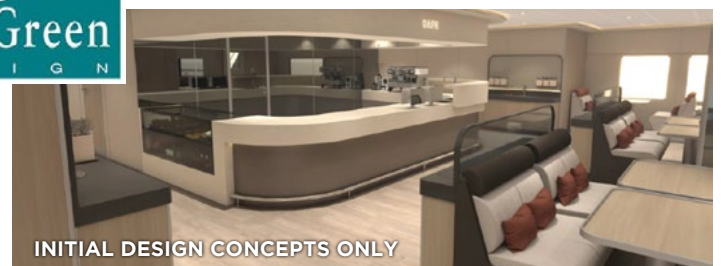
Vessels are designed and built according to rules and regulations applicable for the type of vessel. Classification societies such as Lloyd's Register develop technical standards and rules for the construction and survey of ships and their machinery, enabling compliance with International regulations. The international Maritime Organisation (IMO) is a specialized agency of the United Nations responsible for regulating shipping. The international framework for regulating ships is achieved through conventions, such as 'Safety of Life at Sea' and 'Prevention of Pollution from Ships' which are implemented by the maritime authority for each member state, with the support of classification societies. The maritime authority in the UK is the Maritime and Coastguard Agency (MCA), which is an executive agency of the UK Department for Transport.

The designs for the new vessels are submitted to Lloyd's Register and the MCA to verify compliance with the rules and regulations and attain approval. Surveyors from Lloyd's Register and the MCA will survey the ships during the build and subsequent vessel trials to verify compliance and subsequently during periodical surveys, throughout the life of the ship.

## INTERIOR DESIGN CONCEPTS

We are working with two design companies, Spear Green and T3, to develop the concept designs for the internal layout and aesthetic appearance of the vessels including input with the external styling.

Once we have chosen the interior design concept, one of these companies will be awarded the contract to develop these designs to produce detailed plans and a specification for the materials and fittings to be used.





# YOUR QUESTIONS, ANSWERED

We are committed to keeping the community on Scilly up-to-date as the project moves forward. We recognise that many islanders will have questions about our plans, and we also know there is a great deal of misinformation on social media. Whilst we simply don't have the resources to address every question, claim and observation offered on social media and elsewhere, we are now setting up a new initiative whereby you can get the information direct from the project team and executives.



## 1-2-1 EVENTS

From April, we will be setting up a series of regular 1-2-1 surgeries with our senior management team. Islanders can book a 15-minute slot to meet face-to-face and ask any questions they might have, and we will be happy to address these and take feedback on board. We will use our best endeavours to hold these in person at our St Mary's office, but if weather interferes with those plans, we'll be available to meet online instead. The plan at this stage is to host the first event in April at our St Mary's office. Further details including dates and how to book onto our 1-2-1 surgeries will be released soon.



## EVENTS

Once again we will soon be visiting all islands to provide an update on the progress we are making with our new vessels, with timelines, final general arrangement diagrams and a technical presentation on Scillonian IV from project manager, Chris Lingham. Again, this will provide another opportunity to speak directly to us and ask any questions that you have for the senior management and new vessel replacement team. Dates and times will be shortly advertised.



## GET IN TOUCH

For more general enquiries, please continue to use the new vessel project team email address below. If you have any questions, please do speak with the project team.



If you have any questions, please do speak with the project team,  
or submit your questions to:

**VESSELPROJECTTEAM@ISSG.CO.UK**