



BUOY SERVICES PRODUCT SHEET

Buoy services are a core function of Irish Lights statutory duty to deliver a reliable, efficient and cost-effective network of Aids to Navigation.

In general, buoys are maintained in situ by our ship ILV Granuaile and are exchanged periodically for return to our state of the art buoy maintenance facility in Dun Laoghaire for a full refurbishment.

Our broad experience means we can advise on when your buoys need maintenance, co-ordinate the process for you and if needed, advise on the placement of new buoys, assessment of navigational requirements for buoys, advice on moorings & support development of innovative marking and data solutions.

We can provide complete management of the maintenance and provision of your aids to navigation, including statutory availability reporting and analysis, helping you to ensure that you remain in full compliance with IALA Standards and the Marine Safety Code whilst freeing up time to focus on your core activities. Our team of experienced technicians undertake the full refurbishment of buoys as required covering the blasting and painting, steelwork and aluminium repairs, pressure testing, electrical and lighting work.

Our vessel ILV Granuaile is a capable and flexible vessel and along with our stock of buoys and equipment, means we can also provide ad hoc mooring and buoy placements, maintenance, service and survey as required by our customers, anywhere in Ireland and often at short notice.





Irish Lights is pleased to offer this quality of service to assist clients in their navigational marking requirements and can provide the following services;



BUOY RENTAL AND MAINTENANCE SERVICE

Provide buoys for rental in support of Local Lighthouse Authorities (LLAs), Ports & Harbours, offshore renewable energy sites, utility companies, aquaculture farms etc. Rental can incorporate a full maintenance plan to ensure compliance to IALA standards.



BUOY MAINTENANCE

For our clients who own their own buoys, Irish Lights offers a full, on location buoy maintenance programme to maintain safe navigation. The facilities at Dun Laoghaire can also be utilised to give an intensive overhaul or refurbishment if required.



BUOY DEPLOYMENT

Irish Lights are acknowledged experts at deploying and recovering buoys safely and without structural damage. Granuaile is a purpose built specialist ship designed to deploy buoys and their associated moorings, whether they be for navigation safety, meteorological and environmental data collection, well-head marking, guarding wave-riders or marking outfalls and other man-made hazards.



TECHNOLOGY SERVICES (AIS, DATA SERVICES & MONITORING)

Irish Lights have extensive experience deploying, maintaining and monitoring AIS Aids to Navigation (AtoN). We can provide 24/7/365 monitoring of your existing AIS AtoN, and alert you if the buoy drifts outside its guard ring. We can deploy AIS on your existing assets and provide status monitoring of your AtoN including operating parameters such as battery voltage.

If you have a data feed from your buoy that includes real-time position, than we can provide a synthetic AIS AtoN service to mark the buoy without having to deploy any equipment on the buoy. If you have any fixed hazards or areas to be avoided that you would wish to mark, we can provide a virtual AIS AtoN service. We can also provide AIS safety related text messages to vessels, warning them if they enter an excluded/dangerous area along with the capability to monitor non AIS data feeds if required.

Irish Lights has 8 data buoys located around the coast of Ireland that are equipped with sensors to support operational monitoring of local weather, wave and environmental conditions and provide this data from a dedicated portal on www.irishlights.ie and <https://twitter.com/irishlights/lists/irish-lights-smart-buoys>

Historical data generated by these data buoys is available offline on a commercial basis by contacting Dave.Ward@irishlights.ie

- Our team has experience deploying equipment on buoys to monitor the environment and providing the general public with weather data over AIS, Twitter and on our website.
- We operate an extensive network of 3/4G enabled lighthouses, and can provide facilities to bring back data from your buoys or other fixed assets.
- We are experienced in all the stages of data management from its capture at sea or on land to its visualisation both on/off line.
- With existing contracts for buoy maintenance with some of the largest Port Authorities in Ireland, Irish Lights is ideally placed to ensure your aids to navigation are fully maintained to meet legal standards.



Commissioners of
IRISH LIGHTS | Navigation and Maritime Services

For enquiries or to discuss your requirements for buoy maintenance contact Dave Ward on:

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w: www.irishlights.ie/commercial-services.aspx