



CIL provide and maintain reliable, cost effective and efficient aids to navigation around the coast of Ireland. We operate in some of the most severe marine environments and our skills in this vital area have been built up over 200 years of service to the mariner. Safety of Navigation is dependent on the reliability of our equipment and services and we are proud to offer this level of service and reassurance to all our customers.

- Lighthouses**
 CIL maintains 73 lighthouse structures around the coast of Ireland. Many are fitted with low energy new technology light sources enabling them to be powered from renewable energy sources. 8 helpads are strategically located to service the offshore lighthouses. High pressure fuelling facilities are available at Castletownbere and Blackhead helpads for search and rescue (SAR) operations.
 - Buoys**
 All buoys are solar powered with those supplemented by wave actuated generators. The buoys use LED lanterns for the navigational light. Buoys of primary navigational importance are fitted with an Automated Identification System (AIS). Met Hydro information may be transmitted from the buoy via the AIS unit.
 - e-Navigation**
 CIL have implemented AIS technologies for Aids to Navigation (AtoN) monitoring and traffic analysis. This service provides position, status and condition information in relation to AtoN while the traffic analysis plots traffic patterns. 3 DGPS stations form part of the GLA DGPS network of 14 stations and provide a GPS integrity and accuracy improvement service for waters within 50nm of the coast.
 - Dun Laoghaire Facility**
 A single integrated site at CIL Dun Laoghaire hosts the administration, marine, engineering and ICT services. The facility includes workshops, stores and a buoy yard fabrication and maintenance facility.
 - Commercial Services**
 CIL provides commercial contract services in a range of areas including chartering, Gravelle for marine operations, buoy maintenance and property/tourism related activities.
- ★ Lighthouse
 - ★ Lighthouse & AIS
 - Buoy
 - Buoy & AIS
 - Beacon
 - Ⓜ Helpad
 - Ⓜ AIS Station
 - Racon
 - Ⓜ DGPS



Commissioners of Irish Lights



Buoy Services

Provision, Maintenance and Consultancy

Commissioners of Irish Lights
 Harbour Road
 Dun Laoghaire
 Ireland
 Contact: www.cil.ie
 +353 1 271 5400
 info@cil.ie
 Captain Harry McClenahan





Buoy Services

CIL provide and maintain over 150 navigation buoys around the island of Ireland.

	CIL Type 3	CIL Type 2	CIL Type 1
Focal Height of Light above water	2800mm	3320mm	7300mm
Bowl Diameter	2300mm	3000mm	3000/3500mm
Draught	1700mm	1800mm	7000mm
Bowl Material	Steel	Steel	Steel
Daymark Material	Marine Grade Aluminium	Marine Grade Aluminium	Marine Grade Aluminium
Max power generation	4 x 25w solar panels	8 x 50w solar panels	16 x 50w solar panels
Max battery capacity	6 x 85Ah, 12v Batteries	8 x 85Ah, 12v Batteries	24 x 85Ah, 12v Batteries

In addition to the above, CIL can provide a wide range of buoys, from small plastic units, suitable for coastal or estuary use, to large steel buoys with a focal height of more than 5m, suitable for offshore deployment in the most severe environments.

Solutions & Support Applications

CIL Engineers and Marine Inspectors can provide advice and recommend the most appropriate engineering and navigation solution for your application.

Buoys are tailored to meet specific requirements and designs can be adapted to host and provide power, to 3rd party equipment as required.

Buoys are built and refurbished at our state of the art production facility in Dun Laoghaire Co Dublin and are placed and maintained by our 80m vessel, ILV Granuaile.

A variety of maintenance and support options are available. Service response can be tailored to fit your business needs, ranging from supply or placement only, to full service level agreement, including monitoring and 24hr emergency response.

To help ensure compliance with international standards and safety guidelines, CIL can provide inspection/audit for your existing local aids.

- Coastal or estuary channel marking
- Platform for scientific instrumentation
- Hazard warning
- Sewage outfall
- Environmental and weather monitoring
- Vessel traffic management
- Communications
- Aquaculture
- Offshore Energy



Any IALA configuration e.g. Port/Starboard Lateral, Cardinal, Special, Wreck, Safe Water, Danger etc.

Options include:

- LED lights (2 to 9 nautical miles range)
- AIS
- Met Hydro
- Racon
- Radar Reflector
- Brackets for other sensors, equipment etc.

Dublin Port Company
Corona Power Ltd
Defence Estates (NI)
Dun Laoghaire Co Co
Marine Institute
Wexford Co Co
Wicklow Co Co
Dept. Of Agriculture & Rural Development (NI)

Dublin Bay Buoy
 Ballylumford Power station
 DZ firing zone marking buoys
 Sewage outfall buoys
 Special marks at AMET site
 Sewage outfall buoys
 Sewage outfall buoys
 Plough Buoy



Specifications

Options

Satisfied Customers