

## **Marina Design, build and operation**

### **Environmental Policy Position & Awareness**

- Camper & Nicholsons Marinas International Limited (CNMIL) recognises its business has an impact on the environment in which it operates.
- We take steps to minimise environmental impacts; especially in terms of reducing waste, limiting greenhouse gases and other prime causes of global warming and unnecessary pollution of the planet.
- Many of the following considerations can and should be built into the design of a new project with considered design, development and operational practices, adherence to international standards and protection of the ecosystem.

### **Design and Material Considerations**

Prior to the development of any site CNMIL plays an active role in the preparation of an Environmental Impact Assessment - EIA. In addition, it may also:

- Carry out benthic and marine biological studies in an attempt to protect rare and endangered species
- Conduct flushing and water quality studies
- Have a considered approach to dredging and the disposal of dredged spoil
- Assess impacts on the seabed, shoreline and benthic flora and fauna

### **Docks & Pontoons**

Where possible, CNML avoids the use of:

- Unsustainable tropical hardwoods
- Plastics
- Toxins
- And other such materials that come from dubious non-sustainable sources, or from manufacturing processes using harmful chemicals and fossil fuels.

### **Electrical Services**

The generation of electricity has a significant impact on the environment. To help reduce consumption CNML installs:

- Power correction factor controls, thus reducing electrical losses
- Sensor activated lighting
- Metered supplies that control illicit usage
- LED and low voltage lighting

### **Moorings**

All pontoon and vessel moorings are carefully considered and designed to suit seabed conditions. Where possible rupturing and puncturing of the bed is avoided by use of:

- Non-embedment anchors
- Reliance upon suction in preference friction forces
- Reduction in imposed load from concrete sinkers

### **Water Supplies**

Marinas have heavy demands on water. Consumption and “spent” water supplies constitute a threat of pollution. To contain such threat CNML offers:

- Metered water supplies to detract from wasteful practices
- Grey/Black water collection systems
- Oily water and waste oil recovery systems
- Recycled water for irrigation

## Quality Facilities

One of the biggest threats to water quality is the overboard discharge of Grey and Black water. Although many boats have storage tanks, and facilities are provided for collecting such, illicit discharge does occur. In an attempt to reduce this source of pollution CNMIL provides quality washroom facilities as an alternative, to what are often cramped onboard conditions.

## Our Operations

Camper & Nicholsons is fully committed to our Environmental Policy:

- Monitoring performance and continually improving its environmental record
- Compliance with all environmental regulations & legislation
- Following examples of best practice and industry code
- Introducing emergency plans and standard procedures to minimise environmental risks such as fuel spillage
- In the interests of good business practice and environmental awareness all locations shall where possible:
  - Have recycling operations and facilities and promote environmental awareness to improve waste reduction & pollution prevention
  - Ensure its Duty of Care to waste management by providing adequate facilities and keeping those facilities clean, tidy
  - Have all waste collected legally and responsibly with appropriate records kept
  - Be efficient in the provision of water, power, energy and conserve where possible
  - Reduce carbon emissions where possible by limited vehicle use and ensuring all plant is well maintained
  - Work alongside suppliers who share and recognise the importance of protecting the environment
  - Control the use of chemicals and cleaning materials to reduce any environmental threat
  - Review environmental procedures annually to take into account any legislation review, staff changes or procedural change
  - Hold regular staff meetings in which environmental matters can be discussed, shared and reviewed

## Operational Practices

CNMIL has **Marina Rules**, drawn up over many years of operational experience that must be adhered to at all its marina sites. These rules are there to enhance the pleasurable experience one should expect at a marina rather than detract from it. Operationally CNMIL:

- Conducts monitoring exercises
- Controls on waste management and water cleanliness
- Controls on use of chemicals and cleaning materials
- Good maintenance practices
- Use of low carbon emission vehicles

## CNMIL's "Green" Achievements

Choice of Site and design criteria are fundamental issues in the development of a marina. CNMIL has successfully met the challenge of marina development in:

- Regeneration and urban renewal of "brown-field" sites e.g. Port Louis, Grenada,
- Redevelopment of historic sites of renowned archaeological interest e.g. Grand Harbour Marina, Malta.
- Protection and creation of flora and fauna habitats in our marinas
- Green Apple Award Cesme - Environmental Best Practice
- Working sympathetically within natural locations where the effect upon environmental harmony was minimal e.g. Port Gocek, Turkey