



Figure 1

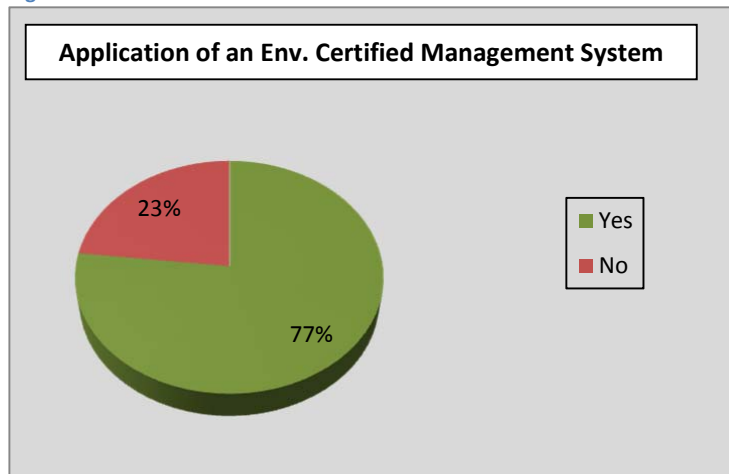


Figure 1 demonstrates the high adoption rate of CMS's within the IPLOCA membership

Figure 2

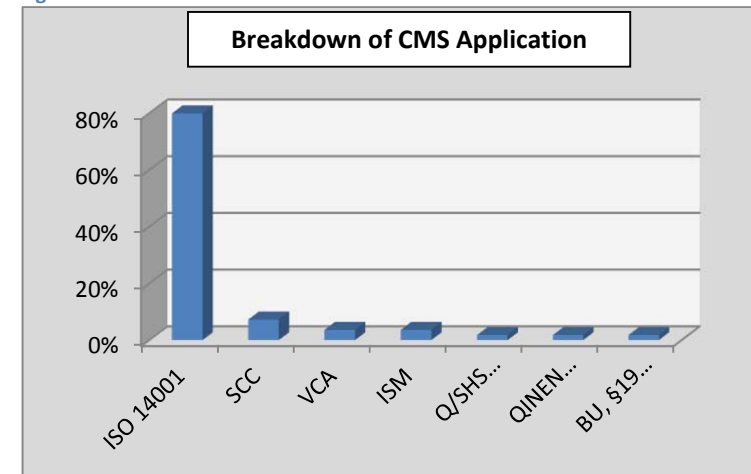


Figure 2 shows that the ISO14001 certification has a 80% adoption rate; clearly a market leader in the pipeline industry

Figure 3

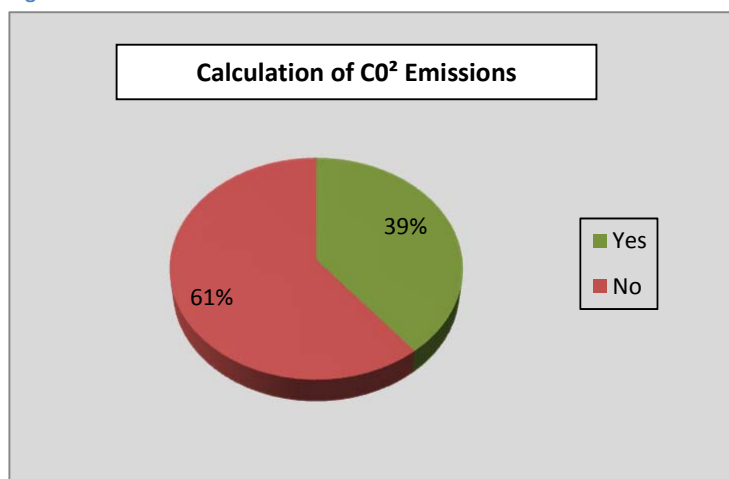


Figure 3 demonstrates that 39% of the membership choose to use CO² emissions as an indicator of their Env. performance

Figure 4

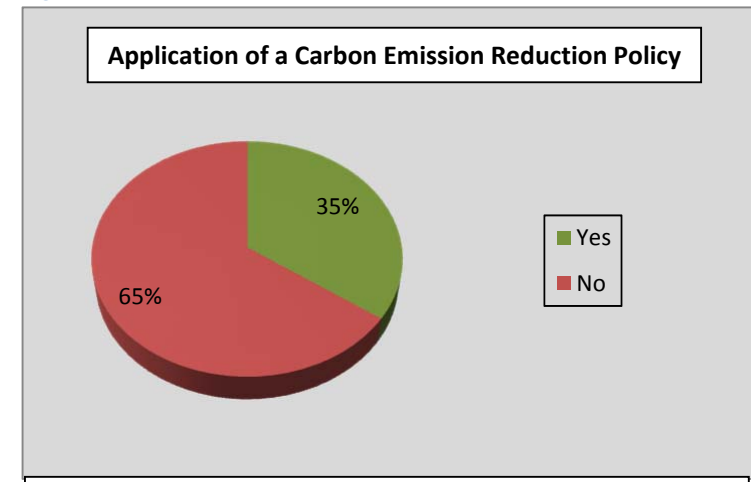


Figure 4 demonstrates that whilst 39% calculate co2 emissions, only 35% choose to act upon it in a proactive reduction policy



Figure 5

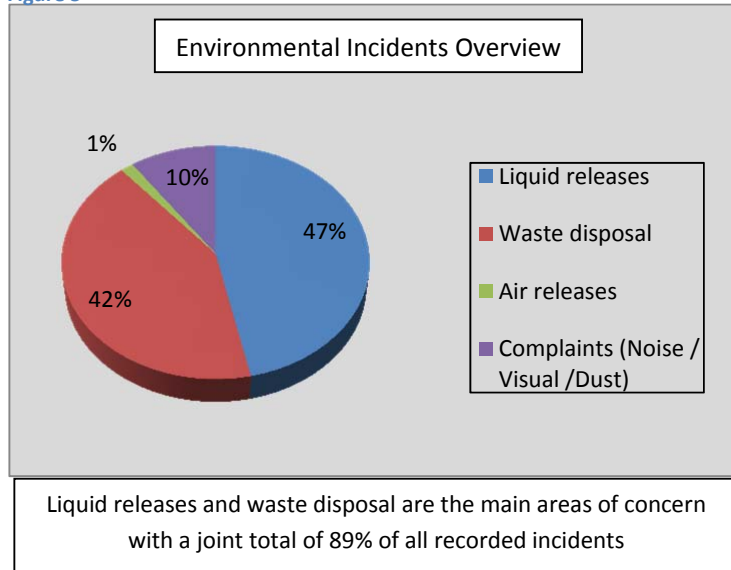
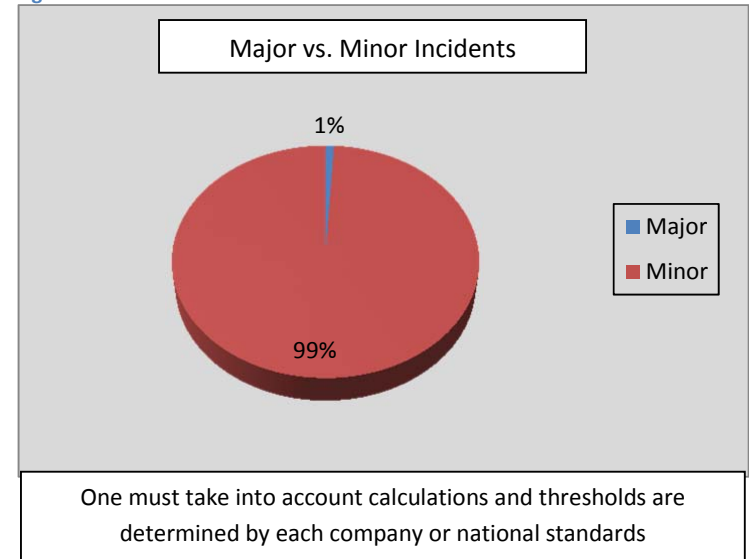


Figure 6



Mitigation and Enhancement Methods

The below is an extract of various initiatives carried out by our membership to mitigate, offset and enhance environmental incidents

Air Releases	Liquid Releases
<p>The measuring and monitoring of carbon emissions according to the Greenhouse gas (GHG) protocol and preparing a "GHG Emissions Report" in parallel to Carbon Disclosure Project (CDP) requirements</p> <p>Application of diesel particulate filters that surpass national requirements</p> <p>Installation of enclosed blasting & painting facility to control dust & paint vapor emission</p> <p>Purchase of environmentally friendly machines, with reduced emission levels</p>	<p>System put in place for the cleaning and reuse of water for pipeline pressure testing</p> <p>Adoption of HDD when possible to minimize environmental risk</p> <p>Equipping fuel tankers with trays, and welding box van with cinder collection tanks</p> <p>Reduction of drilling fluids consignment to landfill & all pumps are equipped with drip tray for oil / gasoline</p>



Waste Disposal	Complaints (Noise, Dust, and Visual Impact)
<p>Use of Mobile waste burners to reduce environmental impact. Mobile plant of burning waste (thermal complexes) leads to reduction of waste volume in the environment. Thus the percent of detrimental impurities in the exhaust is from 95% to 98%.</p> <p>Waste management system to improve waste segregation in corporate offices and onsite where part of the generated waste is converted to alternative fuels</p> <p>Recovery of plastic materials /recovery of inert by crushing & purchase of paper with low environmental impact</p> <p>We use biodegradable materials in our dewatering systems such as drain and tape.</p>	<p>Companywide adoption of silenced pumps</p> <p>Dust suppression through the application of sprinkler systems</p> <p>Building and Commission of closed technology washing facility to clean large size construction equipment</p> <p>Shielding has been fabricated on site for any lights that spread too much light toward the beach</p>
Habitat Preservation & Social Initiatives	Energy Efficiency
<p>Conservation program to protect tigers and their natural habitat in India. Communication through public meetings, distribution of pamphlets, and audio visual presentation to the local population and temporary workers</p> <p>A fauna first aid kit has been developed to assist distressed fauna when required</p> <p>Two water production units delivered to local communities in Nigeria as a sustainable initiative</p> <p>Creation of new green areas, species transplant, and reforestation in project's areas</p> <p>Tree planting scheme</p>	<p>The use of solar panels on rooftops</p> <p>Monitoring plan for key energy, and waste indicators</p> <p>Installation of 2 photovoltaic systems at the headquarter office. One system of 147.84 KW installed to produce electricity for the headquarter office and the workshops own consumption, one of 1238.16 KW installed for energy production to be delivered directly to the energy national grid.</p> <p>To reduce water usage and power for effluent treatment, waterless urinals were installed to project sites</p> <p>Establishment of a CNG filling station on the premises & increasing the number of vehicles that use CNG or LPG as fuel</p>