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# 2013 IPLOCA Environmental Statistics Report

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## Message from the HSE Committee

The IPLOCA HSE Committee has reviewed carefully the 2013 Environmental statistics received from members. We are now in the 4<sup>th</sup> year of submission and the rate of response remains high at 70% of Regular Members, showing a stabilisation from last year. The HSE Committee will continue its actions to try and obtain a higher rate of return, in order to provide more valuable information to all members.

Statistics received show an increasing number of companies using an EMS, with a record rate of 89%. This, together with the very interesting large panel of environmental initiatives, is extremely encouraging and shows that our industry is more and more actively engaged in the preservation of our environment.

## Introduction

With members in more than 40 countries, IPLOCA is proud to represent some 255 of the key players in the onshore and offshore pipeline construction industry worldwide.

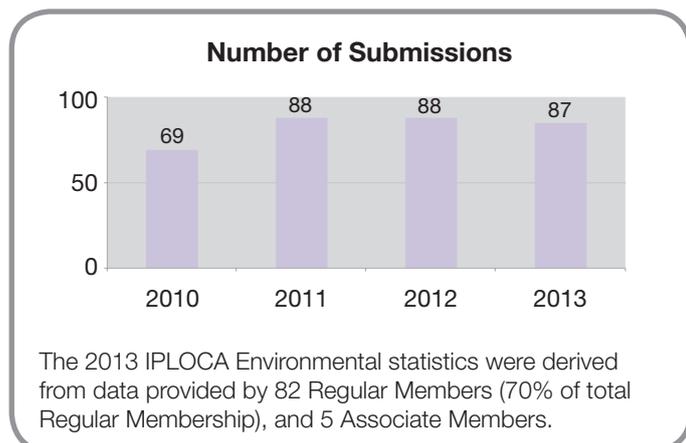
IPLOCA recognises the pipeline industry's responsibility to the community regarding social and environmental protection and is committed to actively promoting the adoption of all practicable measures to ensure that pipeline planning, engineering and construction are conducted efficiently in a sustainable, social and environmentally responsible manner.

IPLOCA is always looking at new initiatives and established the Environmental Statistics Return Form in 2010.

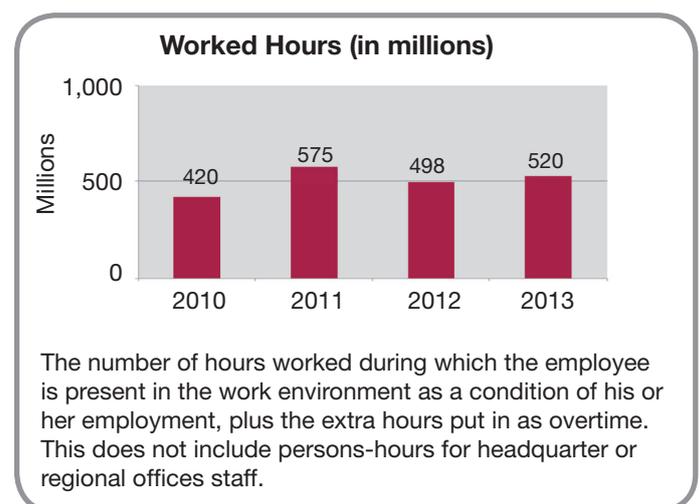
The goal of this form is to respond to growing worldwide trends in environmental accountability. IPLOCA's hope is that this form will serve members who are already active in the environmental assessment domain, and serve as an example to those who have yet to undertake any such action.

We strongly encourage all Regular Members and Associate Members who have field construction activities to provide this information so that the entire membership can benefit from the aggregated information.

## Number of Submissions

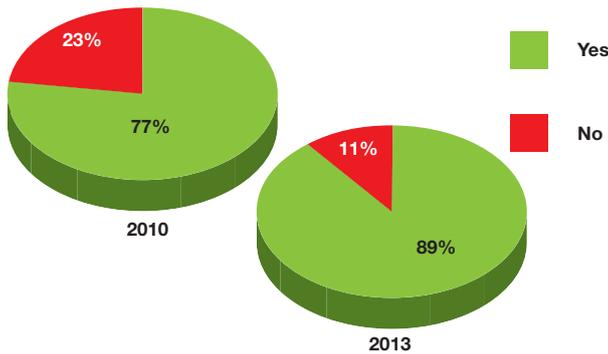


## Worked Hours (inclusive of overtime)



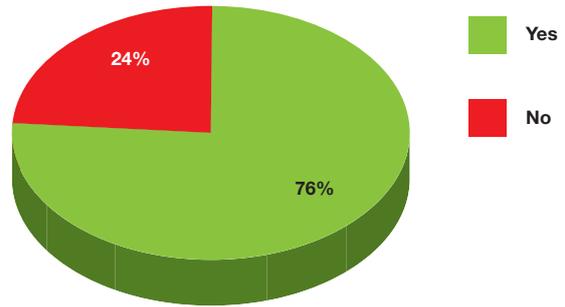
# Environmental Management Systems

## Application of an EMS by IPLOCA Members



A high adoption rate of EMS's exists within the IPLOCA membership.

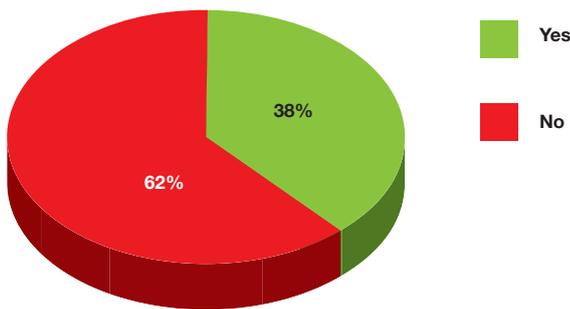
## ISO 14001 certified IPLOCA Members



The ISO 14001 environmental management system certification has a 76% adoption rate - clearly a leading certification in the pipeline industry.

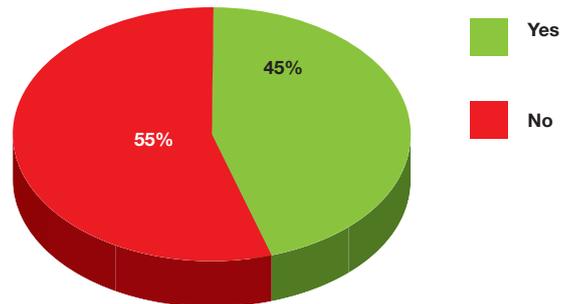
# CO<sub>2</sub> Emissions

## Calculation of CO<sub>2</sub> Emissions



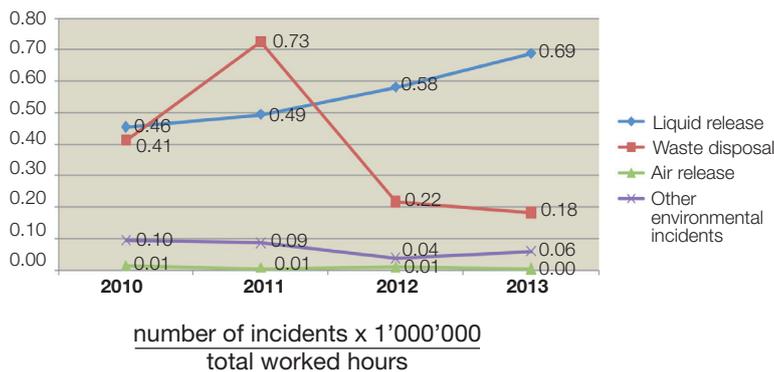
38% of the members choose to use CO<sub>2</sub> emissions as an indicator of their environmental performance, and 45% choose to apply a carbon emission reduction policy.

## Application of a Carbon Emission Reduction Policy

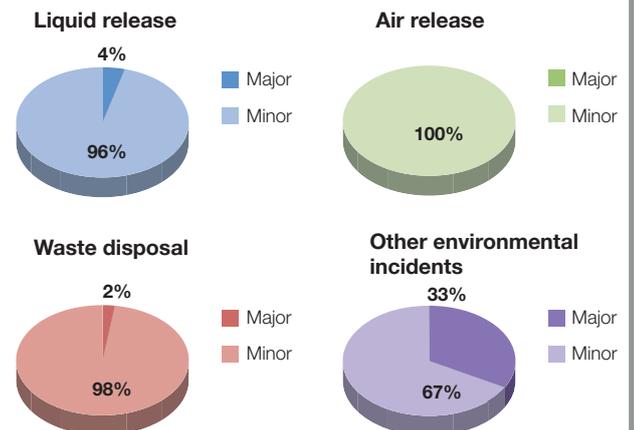


# Environmental Incidents

## Environmental Incident Frequency Rates (per million worked hours)



## Major vs. Minor Incidents



For complete details on classification of incidents, please visit our website: [www.iploca.com](http://www.iploca.com)

## Mitigation & Enhancement Methods

Below is an extract of various initiatives carried out by our members to mitigate, offset and enhance environmental incidents.

### Waste Reduction

- “Moving towards paperless office by e-forms, scanning, electronic communication and duplex printing”
- “Development and implementation of Paper Waste Procedure for waste reduction, reuse and recycling”
- “Incrementation of waste recycling to avoid landfill disposal”
- “Recycling of wood, steel, electronic computers, dry and liquid batteries, paper, used oil, tires, PMD and cartridges”
- “Waste water treatment and reuse for irrigation”
- “Waste control by re-usable cups and disposable paper cups”
- “Use of waste treatment machines on construction sites”

### Energy Efficiency

- “Shipboard Energy Efficiency Management Plan (SEEMP)”
- “Voluntary Environmental Compliance Performance System for measuring energy consumption and Green House Gas emissions”
- “Lowering water consumption to minimum”
- “Warehouse with solar pannels”

### Air Releases

- “Dust suppression carried on by sprinkling of water”

### Habitat Preservation & Social Initiatives

- “Environmental awareness campaigns for staff”
- “Participation in campaign to keep river channels clean”
- “Organic pool installation with community participation”
- “Memberships and associations with industries which are aware of environment”
- “Local flora management plan”
- “Ensuring local habitat’s survival and making society understand the importance of flora and fauna”
- “Ensuring soil conservation and securing vegetation”
- “Coral rehabilitation”
- “Tree plantation”
- “Celebration of World Environment Day on 5<sup>th</sup> June”

## Management Initiatives

- ‘Corporate Social Responsibility Performance Ladder ’
- ‘Carbon Performance Ladder ’
- ‘ISO 26000 ’
- ‘Incentive & reward system for environmental protection ’
- ‘Development of Camp Sustainability Manual ’
- ‘Expansion of use of non-water-polluting substances, modernization of equipment inventory and increased follow-up system against water pollution ’
- ‘Green Belt Development ’
- ‘New landscape design method for environmentally-oriented land-use ’
- ‘Natural eco-designed buildings ’
- ‘Green House Gas Reporting ’
- ‘Use and purchase of environment friendly equipments and machinery ’
- ‘Implementation of “ICARE Environment” estimation software for reduction of energy consumption on camps ’
- ‘Certification of ISO 50001:2011 International Energy Management Standard ’

## Noise Reduction

- ‘Regular noise monitoring ’
- ‘Development of new sound absorption technology ’
- ‘Carrying out of noise impact studies on current activities ’

## Liquid Releases

- ‘Use of tray and spill kit against oil spillage ’
- ‘Treatment of oily/greasy waste water ’
- ‘Use of environment friendly chemicals ’

## Carbon Reduction

- ‘Increasing number of natural gas supplied vehicles ’
- ‘Preventive maintenance system for machinery and equipment ’
- ‘Use of solar lamps as renewable energy ’
- ‘Limitation of CO<sub>2</sub> exhaust by reducing runtime of heavy equipment ’
- ‘Reduction of single transports in favour of common transport ’

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