



Pacific Environment Limited



emissions
Xpert

Measure. Report. Analyse.

emissionsXpert
Overview



A SOLUTION FOR MANDATORY REPORTING

- » Do you have the data?
- » What you don't measure, you cannot manage
- » Emissions reporting is now a Federal requirement
- » You can have all your regulatory reporting automated, on time, with minimum effort
- » You can have regulatory changes reflected in the application immediately
- » The emissionsXpert was developed by emission estimation specialists who understand the intricacies of each and every change
- » The emissionsXpert is easy to use, Data Entry is intuitive and can be either automatic or manual

The emissionsXpert Data Management System is a product from the enviroXpert suite of environmental technologies from Pacific Environment Limited. With the current focus on climate change and emissions reporting, knowing what and how much a site is emitting is critical. It is also expected that recording and reporting requirements will continually be changing in line with political focus.

Therefore, having a flexible emissions data management system that remains up-to-date with scientific and policy changes allows businesses to focus on their operations and not have to invest further in technology changes and modification by their own staff.

National, regional and internal reporting can be automated. This means sites only have the emissions data entered once and the emissionsXpert can submit to the different reporting bodies.

WHY

There is a major focus on climate change and emissions reporting with the Federal Government now requiring large companies to report their emissions, with smaller companies eventually following suit.

NGER - Businesses are now required to satisfy the mandatory reporting requirements under the National Greenhouse and Energy Reporting (NGER) Act 2007. NGER will require corporate reporting of:

- » Scope 1 – direct greenhouse emissions
- » Scope 2 – indirect emissions associated with purchased electricity, heat and steam
- » Scope 3 – indirect emissions associated with the operations of the facility that occur outside the site boundary. (Voluntary at this stage)

This act introduces a single national framework for reporting and dissemination of information relating to:

- » Greenhouse gas emissions
- » Greenhouse gas projects, and
- » Energy consumption and production by companies

The Act has been implemented as the first step towards the Australian Carbon Pollution Reduction Scheme (CPRS) with the main objective being to establish a baseline of emissions.

NPI

Facilities that trigger under the National Pollutant Inventory have been reporting for a number of years. We are seeing changes to the reporting requirements annually:

The emissionsXpert already complies to the new requirements

NPI amendments as released under the NEPM are included in the emissionsXpert. For example in the 2008/09 reporting period:

- » Inclusion of transfers
- » Additional pollutants
- » Changes to reporting thresholds

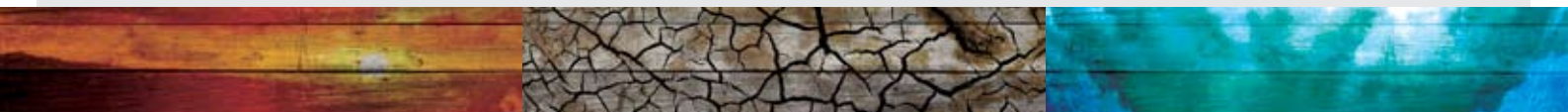
Ongoing changes to reporting requirements will automatically be reflected to emissionsXpert going forward

The focus on recording and reporting now means facilities have to report to two government bodies. Having all emissions data in one repository which prepares all reporting requirements will be cost effective and time saving for all operators.

FOR INDUSTRY IT IS NOW A COMPETITIVE ADVANTAGE TO KNOW YOUR EMISSIONS.

A PEL SOLUTION

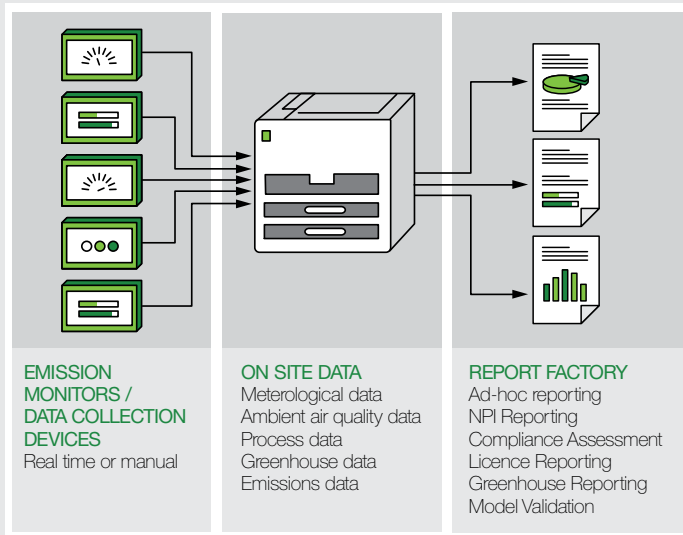
As part of the PEL Group's commitment to research and development, an emissions data management system – The emissionsXpert – has been devised to offer a simple, accurate and flexible solution to calculating and reporting all types of emissions.



WHAT IS THE emissionsXpert?

The emissionsXpert is an efficient and effective solution, offering a flexible reporting service that remains up-to-date with scientific and policy changes.

National, regional and internal reporting can be automated, meaning that data need only be entered once (either automatically or manually) and the emissionsXpert will prepare relevant reports that can be submitted to the appropriate reporting bodies.



Completely web enabled, the emissionsXpert can be accessed from anywhere. Upgrades and maintenance can be done without the expense and delays of site visits.

DEFINING POLLUTANTS

The emissionsXpert has a library of more than 2000 commonly reported pollutants to choose from, depending on your reporting requirements. If this isn't enough, the emissionsXpert will let you define a custom pollutant, making selecting pollutants infinitely customisable to your needs.

- » Criteria Pollutants: NO_x, SO₂, PM₁₀, Total VOCs, Lead, CO
- » Dust Pollutants: TSP, PM₁₀, PM_{2.5}, PM_{1.0}
- » Odorous Pollutants: Total odour, H₂S, VOCs
- » Greenhouse Gases: CO₂, Methane, Nitrous oxide, HFCs, PFCs and SF₆

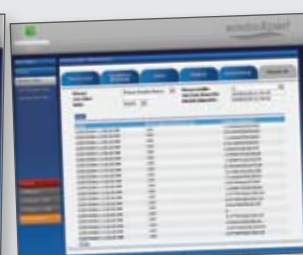
FEATURES OF THE emissionsXpert INCLUDE:

- » Locked down equations, eliminating errors with the calculations (unlike Excel spreadsheets that are prone to errors);
- » Online help;
- » Web access, so no software needs to be installed onsite, and access is not limited to a single workstation, but available to any computer with Internet access;
- » Multi-User access, allowing access from multiple sites;
- » Hierarchical permissions, allowing different permissions to individual logons (such as read-only, administrator, reviewer etc.);
- » Notes – enabling users to annotate data used to estimate NPI emissions (i.e. to record origin of data or assumptions made);
- » Full audit capabilities - details of the user and time/date data are entered or changed can be recorded and accessed by users with sufficient permission;
- » Data Validation - innovative reports can be created to validate the estimated emissions. These reports range from basic data comparison between reporting periods to graphical representation of trends for each pollutant. As data are entered, their validity can be assessed by the system, and rejected or flagged if suspect. This is especially important for systems that are partly or fully auto populating where the incoming data may not have undergone any previous quality checks.
- » Futures:
 - Alerts to warn of erroneous data
 - Emails are sent to prompt people for data
 - Managers can be notified as soon as reports are complete

IS THIS YOU - WHY INVEST IN THE emissionsXpert?

Large companies often have multiple facilities and departments, making cohesive data collection and analysis difficult and resource-intensive.

By implementing an easy to use data management system, the emissionsXpert avoids these issues and provides a simple solution to what can often be a complicated and lengthy process. After simply entering the data into the system, either manually or automatically, reports are generated and compiled in the varied formats required (e.g. the NPI or NGER, CDP, EEO etc) and then can be sent to the relative agencies, requiring little or no effort by staff





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