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Contents

About us

Enviroware was founded in 1997 to provide advanced consulting services in:

environmental impact assessment

industrial risk

development of simulation tools

development of environmental software

development of systems for radiological emergencies

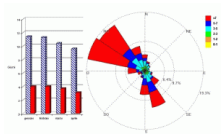
The expertise of Enviroware guarantees to the Clients the achievement of their objectives, with complete satisfaction. The company can develop modelling tools specifically tailored to the needs of the Clients, as well as apply existing tools that are recognised as reference all over the world. Enviroware provides its services, in Italy and abroad, both in the Research and Development and in the Applied Research fields, and it can satisfy public and private Clients of any size.

Services

Enviroware plays an important role in the atmospheric modelling field, as testified by its list of clients and by the many scientific publications.

Atmosphere

Enviroware provides a wide spectrum of services for assessing the impact of air pollution:



- Atmospheric component of **environmental impact assessment studies** of any size and complexity
- Preparation of regional **emission inventories** applying the CORINAIR methodology
- Estimation of the **traffic emissions** applying the COPERT methodology
- Estimation of the emissions during **construction phases** (excavators, cranes, air compressors, …)
- Estimation of **landfill biogas emissions**
- **Meteoclimatological analysis** (measures from monitoring stations, METAR data, radiosoundings, Limited Area Models, …) finalised also to the preparation of the input data for atmospheric dispersion models
- **Atmospheric impact evaluation** using international recognised models (for example the US-EPA **CALMET/CALPUFF, AERMOD, ISC3ST, ISC3LT, ISC3 PRIME, CALINE, CAL3QHC, OCD5**, ...) of the emissions of different source types (industrial plants, cooling towers, offshore platforms, ...)
- **Simulation of photochemical pollution** using internatinal recognised models (CALGRID2, CAMx, ...)
- **Odour impact simulation** for landfills, garbage treatment plants, food industries, chemical industries, oil industries, etc.

Industrial risk

Enviroware provides consultancy to relevant risk industries and to the industries that use flares for burning fuel-off gases and as safety devices.

- **Relevant accidents**: a **consequence analysis** is made for an hypothetical accident. In case of fire (pool fire, jet fire, fireball) the **thermal radiation** is estimated, in case of explosion (UVCE) it is evaluated the **overpressure**, and the **concentration field** is calculated in case of releases of gases and toxic or flammable heavier-than-air vapours.
- **Industrial flares**: it is estimated the **correct sizing of flares (according to API practice 521)** based on the chemical and physical properties of the gas that is burnt. Moreover, it is

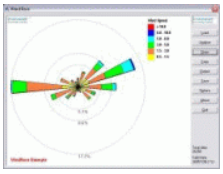
estimated the **thermal and acoustical impact** of the flare to assess the areas at risk, also with probabilistic methods.

Software development

Enviroware is specialised in the development of **environmental software** (simulation systems, graphical user interfaces for mathematical models, ...) for desktop and internet. The software development is always preceded by a deep analysis of the problem and a detailed design, and it is made using the programming language that best fits the case (**Visual Basic, Fortran, Perl, PHP, IDL, Java, ASP**). Every software is tested in depth and has detailed manuals and on-line help features. Enviroware can also support the user in the initial phase of use of the software.
Enviroware can create **vectorial archives** (SHP, DXF, DWG, KML formats) and **raster archives** from complex structures of alphanumeric data. Enviroware processes environmental data in order to allow their visualisation in **Google Earth**.

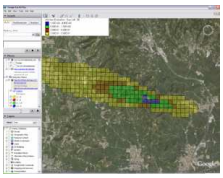
Products

Enviroware develops many software which are commercialised via internet in the whole world.



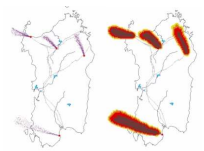
WindRose

WindRose is a software application with graphical interface for plotting wind roses that can be saved in graphical format, copied inside documents or exported as PNG, JPG, BMP, SHP, DXF, KML.



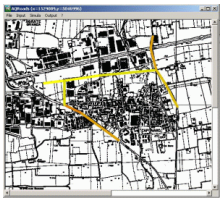
AQView

AQView is a software for creating grids and contour plots for **Google Earth** starting directly from the output of some atmospheric dispersion models: CALPUFF, AERMOD, ISC3 Short Term and Long Term.



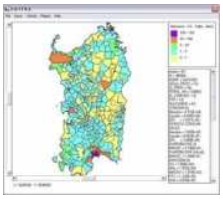
LAPMOD

LAPMOD is a Lagrangian particle model to study the atmospheric dispersion of radioactive or inert species. It is interfaced to the CALMET diagnostic meteorological model, and can alternatively use input meteorological files in AERMOD format.



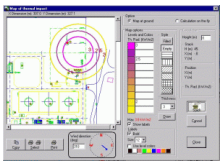
AQRoads

AQRoads is a software application with graphical interface for the estimate of hourly emissions of air pollutants from road traffic and for the evaluation of their dispersion in air at variable distances from roads, on a regular two-dimensional grid.



EMITRA

EMITRA is a software application for calculating the emissions from road traffic (CORINAIR Macrosector 07) in the frame of regional atmospheric emission inventories.



FLARES

FLARES is a software for the correct sizing of **industrial flares** and for the evaluation of their thermal and acoustic impact. All calculations are made according to the **API (American Petroleum Industry) Recommended Practice 521**.

Clients

Services

- ACEA (Association des Constructeurs Européen d'Automobiles) - Bruxelles (Belgium)
- ACInnova srl – Milan (Italy)
- Ambiente Italia srl - Milan (Italy)
- Aritmea srl - Milan (Italy)
- APAT – Rome (Italy)
- ARPA-SMR Emilia-Romagna – Bologna (Italy)
- ASL 3 Lecco – Lecco (Italy)
- Associazione Rete di Punti Energia - Milan (Italy)
- Azienda Ospedaliera Niguarda Ca' Granda - Milan (Italy)
- Basis Engineering srl - Milan (Italy)
- Beg srl - Guarcino (Italy)
- Commissione Europea- JRC IES - Ispra (Italy)
- CNR - CSGSDA – Pisa (Italy)
- CNR - ISAO – Bologna (Italy)
- Demoskopea srl - Milan (Italy)
- E&M Services spa - San Donato Milanese (MI)
- EET srl - Corte Franca (Italy)
- ENEA - Dipartimento Ambiente – Bologna (Italy)
- EniPower spa - San Donato Milanese (Italy)
- G and Z sas - Brugherio (Italy)
- Metropolitana Milanese spa – Milan (Italy)
- Osservatorio Vesuviano – Ercolano (Italy)
- Ottana Energia srl – Milan (Italy)
- Parco Scientifico e Tecnologico della Regione Liguria – Genoa (Italy)
- Provincia di Como - Settore Ambiente – Como (Italy)
- Picodata srl - Milan (Italy)
- Progemisa spa – Cagliari (Italy)
- Regione Lombardia - DG Opere Pubbliche e Protezione Civile – Milan (Italy)
- Regione Lombardia - DG Tutela Ambientale – Milan (Italy)
- Regione Sardegna - DG Ambiente – Cagliari (Italy)
- Risoe National Laboratories - Roskilde (Denmark)
- Snamprogetti spa - San Donato Milanese (Italy)
- S.S.A.S.T. srl – Sassari (Italy)
- Studio Ing. Micheloni - Milan (Italy)
- Sviluppo srl - Milan (Italy)

- TEI spa - Milan (Italy)
- Terraria srl - Milan (Italy)
- TRM Engineering srl – Monza (Italy)

Products

- Al Hoty-Stanger Laboratories – United Arab Emirates
- ASAP Software – USA
- AZTERLAN - Spain
- BECA Inftrastructure Ltd – New Zaeland
- British Geological Survey - UK
- Commissione Europea- JRC Istituto Ambiente e Sostenibilità - Italy
- Cia. Siderurgica Huachipato S.A. - Chile
- CNR - ISAC - Italy
- CRL Energy - New Zaeland
- Decision Weather Inc. - USA
- Environmental Research Institute – UK
- ERM - USA
- Government of British Columbia - Canada
- Innovate Acoustics Ltd - UK
- J&J Tucker Environmental Solutions - Australia
- Johns Hopkins Applied Physics Laboratory - USA
- Partrac Ltd - UK
- Pesticide Research Institute – USA
- SCS Engineers – USA
- SGS - Australia
- Servizi Ambientali Gestionali Integrati - Italy
- Studio Associato Benincà - Italy
- Studio Ing. Righetti – Italy
- Tonkin and Taylor – New Zaeland
- University of Santiago de Compostela - Dept. Chemical Engineering - Spain
- University of Vermont - USA
- UT-Battelle - USA

Main projects

Enviroware has carried out more than 70 atmospheric impact evaluation studies for its private clients. Enviroware also has developed different modelling systems and systems for the management of radioactive emergencies for national and international agencies. Enviroware participated as a partner to the V and VI Framework Programme of the European Community.

ENSEMBLE

Working Group 3 leader in the frame of the project ENSEMBLE of the 5th Framework Programme of the European Community for Research, Technological Development and Demonstration (http://ensemble.jrc.it)

EURANOS

Partner in the frame of the project EURANOS of the 6th Framework Programme of the European Community for Research, Technological Development and Demonstration (http://www.euranos.fzk.de)

Radiological emergency systems

Developer of the emergency simulation systems for accidental releases of radiological substances into the atmosphere for APAT (the Italian Environmental Protection Agency) and European Commission (Institute for Environment and Sustainability of the Research Centre of Ispra, Italy)

Region Sardinia (Italy)

Partner in the frame of the project: "Realisation of the regional emission inventory, of the document on air quality evaluation in Sardinia and individuation of the possible measures to reach the objectives established by the Italian law D.Lgs. 351/1999"

SHAKEUP

Partner in the frame of the project SHAKEUP 1: “Installation of a meteorological network and implementation of mathematical models for air quality evaluation” (Region Lombardy - Italy)

SINERGIE

Development of a decision support system for industrial risk (DG OO PP e Protezione Civile - Region Lombardy - Italy)

AERBOX

Development of a multi-layer box model with photochemistry and particle physics for determining the pollutants load on the monumental stones in Florence (ENEA Bologna - Italy)

PLPM

Development of a photochemical Lagrangian particle model (ENEA Bologna - Italy)

Publications

The technical and scientific importance of the activities carried out by Enviroware is testified by many publications on Italian and international scientific journals.

Scientific Journals

- **Bellasio R.**, **R.Bianconi**, G.Corda and P.Cucca (2007) **Emission inventory for the road transport sector in Sardinia (Italy)**. Atmospheric Environment, 41, 2, 677-691. Stern R.M., R.J.Yamartino, R.Bellasio, R.Bianconi, G.Corda and P.Cucca (2007) **Inquinamento fotochimico sul Mediterraneo occidentale: il ruolo delle emissioni antropiche della Sardegna**. Ingegneria Ambientale, Vol. XXXVI, n. 1-2, 38-46.
- Vitali L., F. Monforti, **R. Bellasio**, **R. Bianconi**, V. Sacchero, S. Mosca and G. Zanini (2006) **Validation of a Lagrangian dispersion model implementing different kernel methods for density reconstruction**. Atmospheric Environment, 40, 40, 8020-8033.
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- **Bellasio R.**, G.Maffeis, J.Scire, M.G.Longoni, **R.Bianconi** and N.Quaranta (2005) **Algorithms to account for topographic shading effects and surface temperature dependence on terrain elevation in diagnostic meteorological models**. Boundary-Layer Meteorology, 114, 595-614.
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- Del Furia L., **R. Bianconi** e **R. Bellasio** (2004) **La valutazione di impatto ambientale (VIA) per gli interventi di recupero delle grandi aree urbane dimesse**. Ingegneria Ambientale, vol. XXXIII, 3-4, 77-90.
- Galmarini S., **R.Bianconi**, W.Klug, T.Mikkelsen, R.Addis, S.Andronopoulos, P.Astrup, A.Baklanov, J.Bartniki, J.C.Bartzis, **R.Bellasio**, F.Bompay, R.Buckley, M.Bouzom, H.Champion, R.D'Amours, E.Davakis, H.Eleveld, G.T.Geertsema, H.Glaab, M.Kollax, M.Ilvonen, A.Manning, U.Pechinger, C.Persson, E. Polreich, S.Potemski, M.Prodanova, J.Saltbones, H.Slaper, M.A.Sofev, D.Syrakov, J.H.Soerensen, L.Van der Auwera, I.Valkama and R.Zelazny (2004) **Can the confidence in long range atmospheric transport models be increased? The pan european experience of ENSEMBLE**. Radiation Protection Dosimetry, 109, 1-2, 19-24.

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