

Techne Consulting

Environment and Energy Knowledge

DPSIR

Model for the development of indicators according to DPSIR framework

DATA MANAGER

Manages data for governance of environment and energy

REPORTING

Module for managing all the reporting functions of the system

UNCERTAINTY

Model for assessing the uncertainty of data

ENERGY

Model for assessing the energy balance



PROJECTIONS

Model for projections of basic data, emissions and energy variables

DISAGGREGATION

Model for spatial and

temporal disaggregation

of data, emissions and

energy balance variations

EMISSIONS

Model for assessing emissions

(air, water, soil)

MODULES

PLUGINS

ROAD

Integrates E²Road model for assessing emissions and energy balance from road transport

FOREST

Integrates in E²Gov assessing emissions from vegetation

AIRPORT

Integrates E²Airport model for assessing emissions and energy balance from airports

LIVESTOCK

Integrates in E²Gov assessing emissions from livestock

PORT

Integrates E²Port and energy balance shipping lines

LANDFILL

Integrates in E²Gov assessing emissions from landfills

FIRE

Integrates in E²Gov assessing emissions from forest fires

SPECIATION

Integrates in E²Gov speciation of air, water and soil pollutants

E²Gov (Energy & Environmental Governance) is the basic tool for the Governance of Environment and Energy which contains the models for the realization of emissions inventory and energy balance.

The system is functional to:

- Data representation according to the DPSIR model (Determinants-Pressures-State-Impact-Responses) European **Environment Agency**;
- Establishment of indicators to support the Report on State of the Environment;
- Making inventories of air pollutants emissions, water and soil, land registers and sources of noise and electromagnetic radiation;
- **Energy balance compilation**;
- Energy and environmental assessments in specific sectors (transportation, vegetation, farming).

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E2Dort

E2Ond

E

E²Plan is a complete system for Environment and Energy Planning developed by Techne Consulting.

The system was founded originally as a system aimed to study air pollution (AirSuite) and has evolved over the years towards a system for integrated assessment in different environmental media under the name EnviPlan.com.

The new version in the Web environment E²Plan released at the end of year 2010 by Techne Consulting extends the functionality of the system to the environment and energy government by managing and processing basic data and indicators, evaluation models and diffusion, transport and transformation of pollutants models.

E²Plan is designed as a complete support system in energy and environmental planning and includes:

- the system for managing and processing data and basic indicators in the fields of energy and environment, the development of inventories of emissions and energy balances and their future projections (E²Gov);
- models for the evaluation of driving forces, energy consumptions and emissions from road transport (E²Road), air transport (E²Airport) and shipping (E²Port);
- the model for the evaluation of energy consumption and emissions of carbon dioxide (CO_2) in municipalities and to support the Covenant of Majors $(E^2Polis\ CO_2)$;
- the system for assessing "quick" energy consumption and pollution E²Impact;
- the interface to the models for the assessment of transport and diffusion of pollutants in different media (air, water, soil) E²Diffusion.