

ADEME



Agence de l'Environnement  
et de la Maîtrise de l'Énergie

Club ADEME  
International



**Duration**  
10 months



**Total costs**  
60k €



**Staff called up**  
4 people

### Thematic



### Services performed

Services,  
Ingénierie,  
Équipementier/Fabricant

### What they said...

*Ecomesure plug & play environmental platform has been a game changer for Consul-Air to be able to control our environmental sensors remotely and continuously has reduced our operational costs dramatically and has enabled us to provide new and superior services to our clients, all while allowing us to focus on our core business.*

**Bruno Couty,**  
Air Quality Department Director,  
Consulair



ECOMESURE

## Monitoring impact of construction works

*The project is aimed to protect health of people and control air quality. Construction works can impact sensitive infrastructures such as hospitals by generating dangerous dust. The hospital facility of Quebec (Canada), needed to monitor air quality very quickly inside the building because of renovation works nearby the infrastructure. ECOMESURE was asked by Consulair, its air quality expert partner, to :*

- Continuously monitor emissions of particulate matters (PM1, PM2.5, PM10), carbon monoxide (CO), and nitrogen dioxide (NO2) and the environmental parameters within the hospital (temperature, humidity, pressure),
- Send real-time alerts on pollution peaks,
- Rapidly install professional monitoring connected stations

*The technical solution provided in less than 2 weeks:*

- Installing a network of professional connected stations (EcomSmart and EcomZen) to continuously monitor indoor and outdoor air quality in real-time,
- Checking the efficiency of filtering systems and controlling ventilation systems,
- Making available the EcomSaaS internet platform services to monitor environmental data via a secure protocol (SSL): data visualization, mapping, storage, downloading, remote control, alarms/alerts, data analysis reports, exchange of data (FTP sending, API link, database export tools)

### Partners



## Post-project results

- Optimal coverage to check that the filtering and ventilation systems are working properly
- All the air quality data (indoor and outdoor) are gathered on the same platform
- Implementation of preventive actions

## Benefits for France

- Exporting and doing business abroad (export represents 20% of Ecomasure's turnover) ;
- Building long-term partnerships with local structures ;
- Replicability of the project (schools, nurseries, warehouses, offices...)
- Promoting French expertise & know-how in air quality, data management, IoT.

## Benefits for Quebec

- Using New Generation Environmental monitoring solution that is accurate, affordable and simple – and perfectly suitable for smart cities
- Having direct access to air quality information from anywhere
- Improving quality and performance of facility Management by training managers and staff

## Environmental impact

- Real-time air quality monitoring (indoor and outdoor)
- Identification of pollution peaks
- Air quality data analysis reports

### EcomSaaS

Services web pour la visualisation et le téléchargement des données



Services web en mode SaaS : visualisation des données, cartographie, contrôle à distance, alarmes/alertes, stockage et téléchargement de données, analyse des données, rapports, calculs d'indice, lien API avec autres plateformes, ...

### Ecomsmart

Surveillance hyper localisée de la qualité de l'air extérieur



Station connectée pour la mesure de la qualité de l'air extérieur en temps réel

### Ecomzen

Assurance confort en intérieur



Assurance confort en intérieur (mesure de la qualité de l'air intérieur).

With more than 130 members, the Club ADEME International assists the SMEs in its network in the development of innovative projects and international partnerships. The objective is to participate in the dissemination of French knowledge, by supporting the private and public sector in the ecological and energy transition sector in order to meet global environmental and climate challenges.

For more information : [www.clubinternational.ademe.fr](http://www.clubinternational.ademe.fr)

