



Syndicat Intercommunal d'Énergies du département de la Loire*

**Organisation and
control of the public
electricity and gas
supply**

**Reinforcement,
extension and
relocation of the
power supply
systems below
ground level**

**Street lighting
and availability of
electric current**

**Savings of energy
and development of
renewable energies**

**Digitized
cartography**

**Consumer
information about
energy**

**Town planning and
network**

**Electronic
communication**

www.siel42.fr

* translated : Trade union for energies that operates throughout the Loire department



Founded in 1950, the Syndicat Intercommunal d'Énergies du département de la Loire (short: SIEL, translated: trade union for energies that operates throughout the Loire department) is a regional corporation (mixed trade union) that acts on the behalf of municipalities and their associations.

At first, the trade union provided the connection to the power supply system for the rural areas what enabled the inhabitants of the Loire region to profit from electric current. SIEL works under the best possible terms and

conditions which are satisfactory to both sides. The representatives assigned SIEL step by step with new tasks for the benefit of the trade unions and power consumers.

While basing on their traditions such as solidarity across communities and operations and work in the public sector, SIEL achieves a large share with expansion and development without harming the environment. Therefore, SIEL promotes the economy and the quality of life.

Solidarity across communities

The corporations belonging to SIEL are obliged* to delegate some of their responsibilities such as the administration of public electricity and gas grid to SIEL.

According to requirements, the corporations may draw on different responsibilities :

- SIEL monitors the work for the lightning of paths, streets and sports grounds and the provision of light at monuments.
- The backings of SIEL also apply to maintenance of street lights, studies for the reasonable management of energy and the further development of renewable energies.

Every year SIEL invests approximately € 25 million and has 300 permanent employees.

SIEL's tasks

Organisation and control of the public electricity and gas supply

The municipalities of the Loire Department delegate the work on the **public electricity and gas supply** to SIEL.

Therefore, it is also owner of the electricity and gas supplier network which is located within its area of competence:

- **Electric cables with a length of 15,886 km**; low voltage (BT 230 volt) and medium voltage (HTA 20,000 volt)
- **Gas pipes with a length of 2,330 km**; low and medium pressure

SIEL entrusts the management of the electricity and gas supply to the concessionaires ErDF and GrDF on laid down conditions that are regulated in **two licensing agreements**.

Furthermore, SIEL **controls** the right application of these licensing agreements (maintenance and renewal of the equipment, quality of the electric current, ...).

SIEL finances activities in the field of extension and strengthening as well as the laying of the electricity supply system below ground level and executes them at the same time.

In the context of the electrification, SIEL extends the infrastructure to be able to lay fibre optic cables (for the use of broadband internet) in the region.



*for communities with less than 150,000 inhabitants

Syndicat Intercommunal d'Énergies du département de la Loire

To SIEL belong :

327 municipalities, which unite a population of 759,600 inhabitants

**42 organizations which work community across,
the General councils of the Loire.**

Street lighting and availability of electric current

According to the joining options chosen by the municipalities, SIEL coordinates the **new work or the renovation of the street lighting**.

The trade union guarantees the maintenance of the approximately **79,000 points of light** through specialized companies.

SIEL advocates reducing the electricity consumption through high-performance equipment (lamps, reducing of the rated power, ...). Furthermore, SIEL realizes the **availability of electric current** in public and other important buildings.

Extension and reinforcement of the electric network

SIEL supports the strengthening of the network in rural regions but also extensions connected to all projects of the corporations (city halls, housing estates, camping, ...).

In order to save energy or to reduce investments for the strengthening of the network, SIEL analyses for example power consumption trends to advise their customers how to reduce their power costs. This process is called **Maitrise la Demande en Electricité** (MDE = Energy demand management).

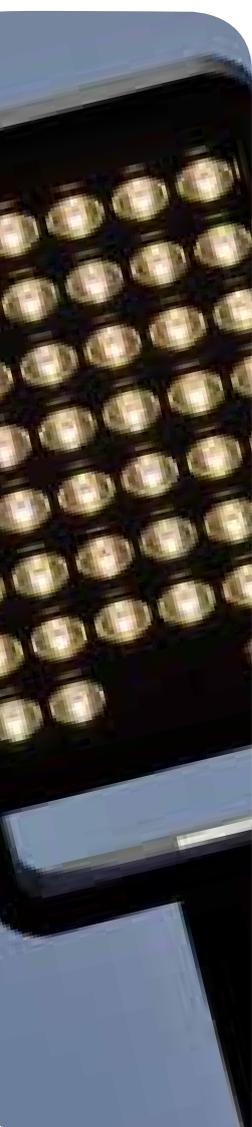
SIEL can also help to calculate the range of the electricity supply system and its influence on the municipal regions.

Aesthetics of the work

Within the development of rural regions of small villages or remarkable regions, SIEL **lays electric below ground level** and coordinates this work with already laid cables such as telephone lines.

This measure contributes to the security of the cables in the case of a storm.

For several years, SIEL has been developing an innovative **reorganisation and recycling of excavated material** and a reduction of lorry transports to and from the construction side using the latest technology.





Savings of energy and development of renewable energies

SIEL makes a special effort in **saving energy and developing renewable energies** (wind and solar energy, water power, wood, ...). This enables the preservation of fossil mineral resources and the reduction of greenhouse gases.

The Service d'Assistance à la Gestion Energétique (short: S.A.G.E., translated: Support authority for energy management) **offers an extensive support to the municipalities for controlling the costs of energy and consumption.**

SIEL gives advice to the communities concerning technical, judicial and financial aspects for the energy installations.

It **monitors the work** for the installation of automatic boiler rooms, photovoltaic generators or thermal solar equipments.

SIEL **advises its members** concerning the most reasonable energy tariff by measuring the energy consumption, carrying out thermographic analysis of buildings, drawing up duties record books and supervising building sites.



Digitized cartography

A special service helps with the **electronic entry of the different networks which are managed by SIEL** (street lighting, gas, electricity).

SIEL supports the municipalities with the **computerization of the land register**. It helps the corporations to better record this quantity of data and also offers technical solutions.

SIEL collects and supervises data from the land register and guarantees the installation of the software in the communities.

Consumer information about energy

SIEL supports different consumers of the public electricity and gas supply network.

It helps with problems concerning the **quality of the electricity** (frequent interruptions ...), the invoicing or the conversion of the contract.

SIEL gives advice to the energy consumers and helps them to make the right decision concerning contracts or suppliers.

Finally the trade union informs low earner to **be more conscious of dealing with energy and how to prevent energy poverty.**



CLAIR'ENERGIE

La marque de qualité de votre collectivité organisatrice de la fourniture d'énergie

www.clairenergie.fr



Organisation

SIEL is a mixed trade union led by a committee. Therein, one deputy of each municipality or from a coalition as well as three deputies of the General councils are represented.

The decisions of the committee are processed and enforced by the trade union, which consists of 28 members.

The president, directly elected by the committee, leads the trade union. The management board proposes general guidelines to the Members of Parliament and takes care of the use of these decisions.



Contact

SIEL - 5 Rue Charles de Gaulle
42021 Saint-Etienne Cedex 1
tél. 04 77 43 89 00 - Fax 04 77 43 89 13
e-mail : siel@siel42.fr

www.siel42.fr



Syndicat Intercommunal d'Energies du département de la Loire