





What is Enedis?

Subsidiary of the EDF Group

Independent DSO



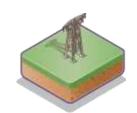




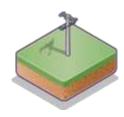


A few general information

• TSO (63, 90, 225, 400kV)



 The French distribution network is owned by local authorities



Autorités concédantes / concessionnaire

• Enedis: 95% of the French distribution network Enedis



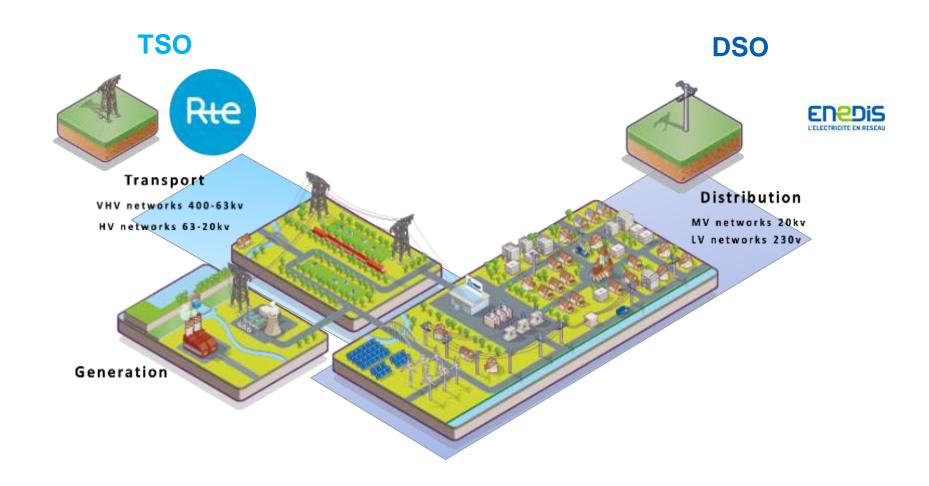








The French electric systems and operators

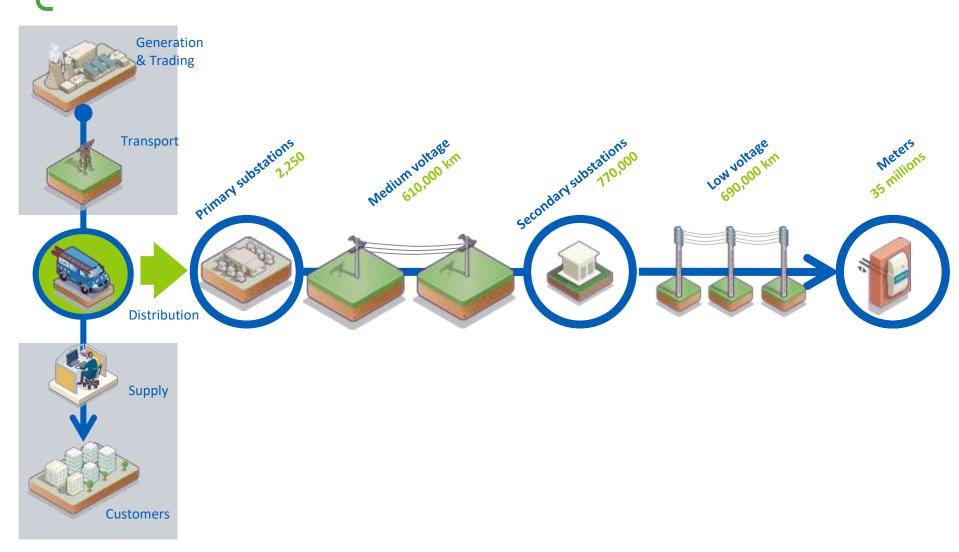








Enedis manages the french distribution network Enedis









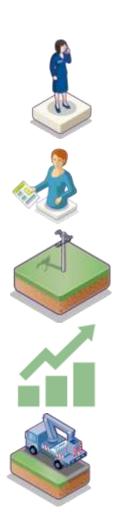
Enedis manages the French distribution network

- 38,000 **Employees**
- 35 millions Customers

1.3 million km of network

3 billion € investment

11 million field-operations









Enedis's governance

EXECUTIVE COMMITTEE



President of the executive committee appointed by the Supervisory Board

25 Direction-regions

38 000 employees



Supervisory Board 15 members appointed or elected for five years

8 Members appointed by the General **Assembly**

1 Government Representative appointed by decree 1 representant of local/regional authorities appointed by decree

5 Employee representatives elected by employees







Organization is based on an operation competency scheme



Specialised units in region

- 25 regional units
- Network & Assets units (ACR, BEX, 7CAD...)
- Territory Direction (département)
- 24 Customers Suppliers
- 8 Support Logistic Units

Five National Units

Supply chain, Account (UCN), Purchase (UOA), IT (UOI), Training (UOF)







Electricity system and supervision

- 1- The French electricity market
- 2 Enedis relationships with the French State
- 3 The energy regulation commission (CRE)
- 4 Tariffs principles
- 5 Electricity distribution concessions







01

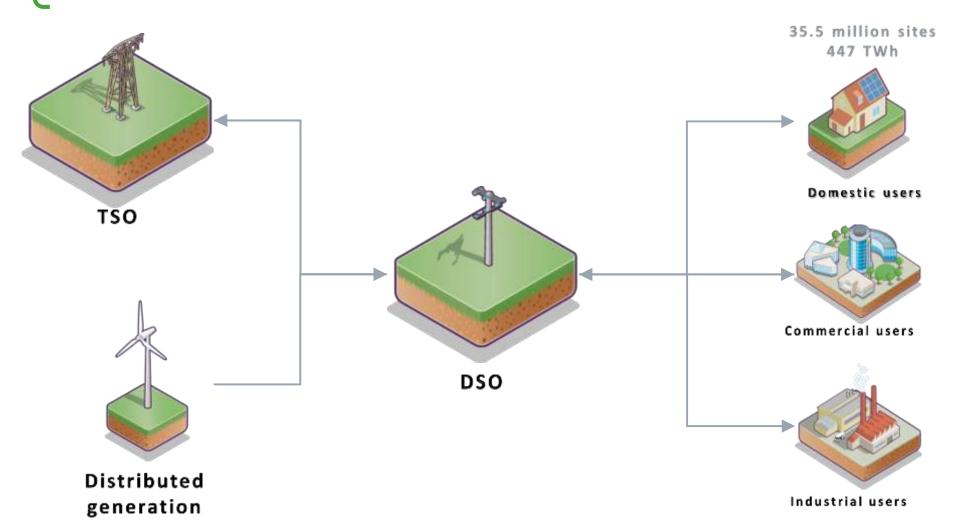
The French electricity market







Electricity distribution in France







Distribution networks

1st DSO in size in Europe



MV 610 000 km



LV 690 000 km

Enedis is an unbundled company: Since 1st January 2008





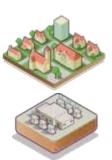
It is Mature with a moderate growth rate:

Below 2%

Enedis does not own the network:

Assets are property of local authorities

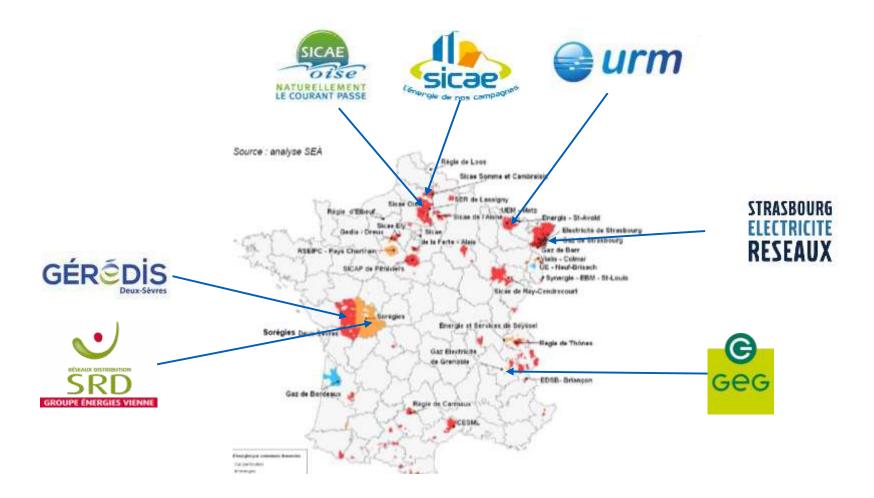








Electricity distribution in France

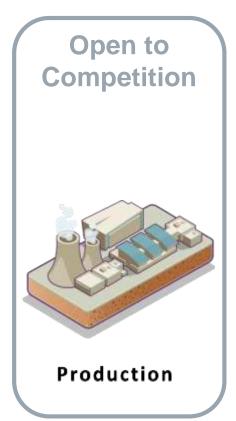


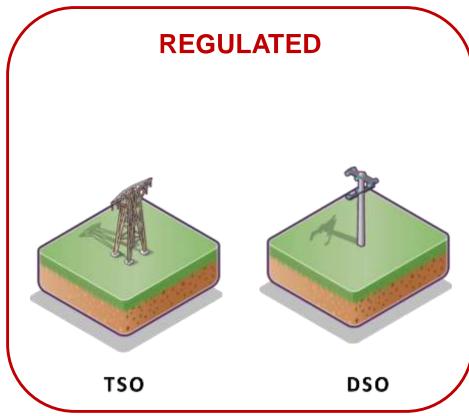


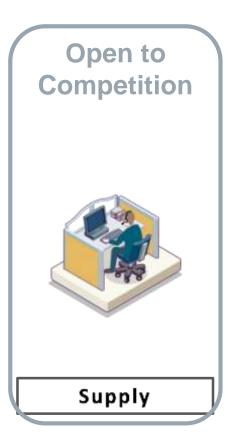




The rules of the game











Key Dates

EDF	200 private power companies have merged to rebuild electricity system after WW2	EDF	1946
R te	Creation of a specific legal structure and EDF Group subsidiary to manage transmission system	RTE	2004
eDF	EDF privatisation	EDF SA	2005
ENQDI	Creation of a specific legal structure and EDF Group subsidiary to manage distribution	Enedis	2008







The opening of the electricity market

		Number of sites	Market share
1999	Major industrial customers (over 16 GWh per year)	1300	30%
2003	Average size industrial customers (over 7 GWh)	3500	37%
2004	All professional customers	4,5 million	70%
2007	All private customers	30 million	100%







A market open to competition

















BtoB only





















02

Enedis's relationships with the French State

The French State: major shareholder

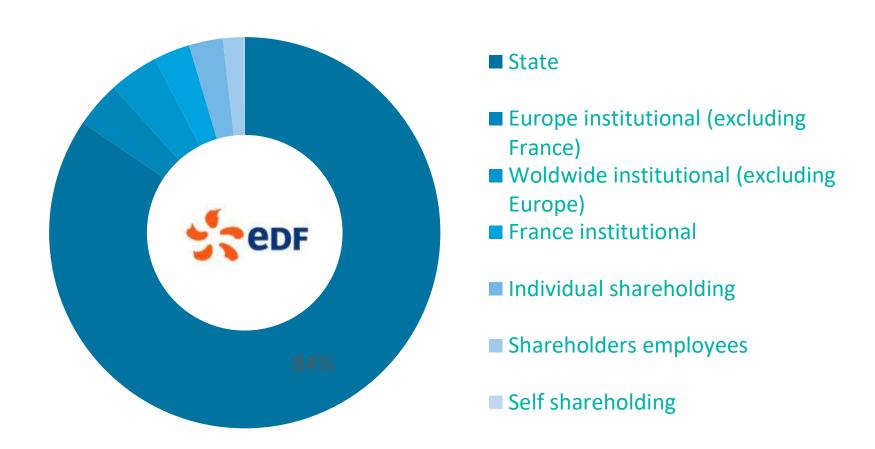
Relationship with Ministries







The French State: major shareholder



As a consequence, the State has 1 representative at the board of Enedis









Relationship with Ministries

Enedis has developed relationships with all ministries making decisions related to its activity



















03

The energy regulation commission (CRE)

What is CRE?

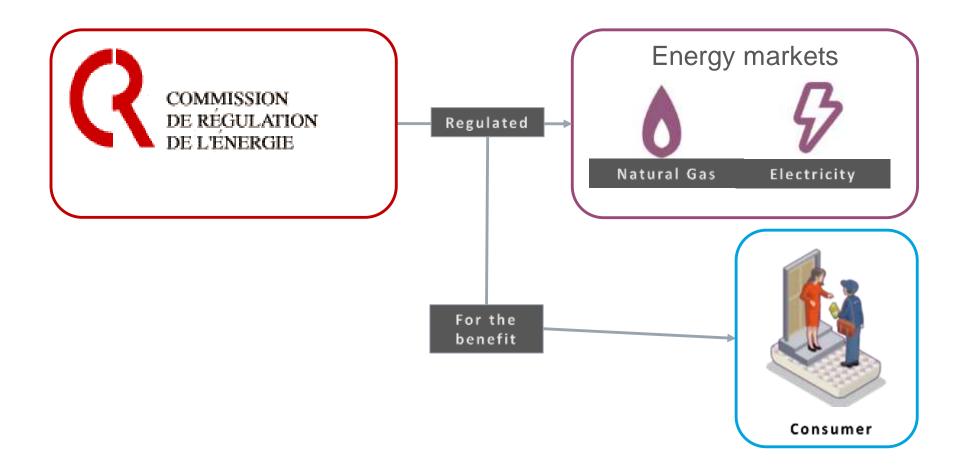
How is it governed?

Regulator's Missions





The energy regulation commission (CRE)

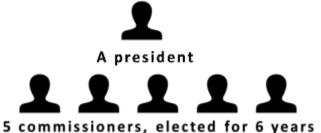






How is it governed?

Board



Commissioners must be appointed according to their specific skills regarding:







Consumer protection and help for vulnerable consumers



Local public services



• Renewable energy and energy conservation



 Non interconnected-zones (Corsica and overseas territories)





The Commission



Jean-François CARENCO

President
Appointed by the
President of the
Republic for a term
of 6 years (ending
February 2023).



Christine CHAUVET

Commissioner
Appointed by the
President of the
Senate for a term
of 6 years (ending
January 2021).



Catherine EDWIGE

Commissioner
Appointed on
proposal of the
Ministry of the
overseas territories
for 6 years (ending
February 2023).



Jean-Laurent LASTELLE

Commissioner
Appointed by the president of the National Assembly for a term of 6 years (ending June 2023).



Jean-Pierre SOTURA

Commissioner
Appointed by the
President of the
Republic for a term
of 6 years (ending
March 2019).



Hélène GASSIN

Commissioner
Appointed by the
President of the
Republic for a term
of 6 years (ending
March 2019).



Organization: committee for dispute settlement and sanctions

➤ This committee was established by the law of 7 December 2006. It composed of 4 members: two states councillors appointed by the vice-president of the council of state, and two councillors appointed by the chief justice.

They are appointed for 6 years and their contract can not be renewed.

▶ 98% of disputes are related to network access conditions.





Regulator's Missions

Regulating electricity networks

Regulating the electricity market









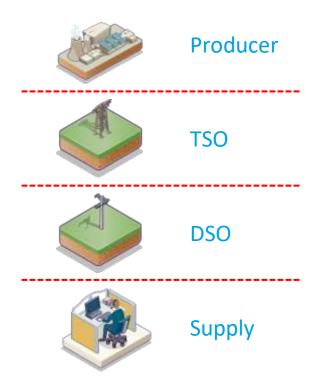


Regulating electricity networks

Guaranteeing the right of access to public electricity grids

Ensuring the independence of system operators











04

French network tariffs

Principles

Incentive regulation







French network tariffs – Principles

CRE sets the tariffs for the use of public electricity grids, and related services to the ministers. Government can stop new tariffs from being implemented if they do not comply with the State energy policy..

Two contractual schemes exists

0

Client paying network access through its supplier (99% of clients)
 Client paying network access directly to Enedis, generation and supply to its supplier (1% of clients)

Guiding principles are the following:

- The network tariff covers the costs of transmission and distribution
- It is unique on the French territory: tariff has no geographical
- It is based on a postage stamp rate: tariff is not distance-related
- It applies to all network users, except generators
- It does not include connection charges and extra services which are billed separately







French networks tariffs – principles

Fixed for:

4 years

Increase every years with:

Inflation



Costs include

Network

Metering

Overheads



Tariffs structure includes:

- Flat rate
- Variable Feed

depending on consumption

Price can be differentiated according to time or season

"Regulation account for costs and incomes"

CRCP

such costs correspond to those of an

efficient network operator







French network tariffs – Incentive regulation

The aim of incentive regulation is to ensure DSOs offers the best service at the lowest cost.

Encompassed Costs



Capital charges



Incentive Regulation



Regulated revenue

Transmission fees, Purchase of network losses, Outsourced expenses, Fees to local authorities, Taxes, Manpower

Regulated Asset Basis X 2,6%

+

Owned Regulated Asset Basis X 4,1%

+

Asset depreciation & Reserve for renewal

+

Debt interest (if any) X 3,1%

Assessed Quantities (kVA, kWh)

Tariffs

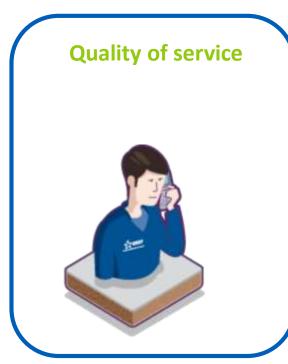




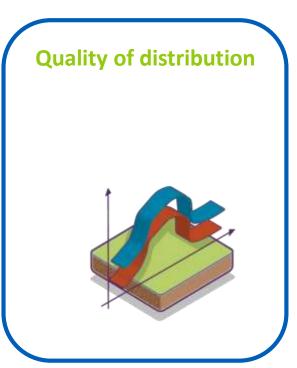


French network tariffs - Incentive regulation

The aim of incentive regulation is to ensure DSOs offers the best service at the lowest cost.











05

Electricity distribution concessions







Electricity distribution concessions



Electricity distribution is based on a concession system



Concessions are granted either by towns/cities, or groups of towns



+ 525 electricity distribution concession







CER

Institutions



French State

- Sets objectives (i.e. quality of distribution) through legislative framework
- Is shareholder of the company



CRE

- Guarantees the right of access to public electricity networks
- Sets the tariffs for the use of the grids and related services
- Ensures independence of system operators



Local Autorities

- Own distribution networks
- Sign concession contracts with concession holders (i.e. Enedis)
- May act as owner engineers
- Monitor the activity of the concession holder



EDF

- Parent company
- Supplier







Clients

- Expect high level quality of service and fair prices
- Pay the network operator for services provided

Rte TSO

Transmission system operator

Non-state players













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