

Part 1 :
STRUCTURE OF THE
FRENCH ELECTRICITY
SUPPLY INDUSTRY

LEGAL CONTEXT

- **December 1996 : European Directive**
 - 📄 **Progressive introduction of competition within EU**
First step : for huge customers (100 GWh) in 1999
decreasing energy limit down to 0 in 2007

- **February 2000 : French act for the 'Modernisation and development of public services in electricity'**
 - 📄 **Decision to create an independant and non-discriminatory Transmission System Operator**
 - 📄 **July 2000 : Birth of the french TSO ; RTE is an unbundled company within EDF**

- **August 2004 : French act regarding gas and electricity companies**
 - 📄 **RTE is a separate legal entity (subsidiary company of EDF)**

Structure of the french ESI

- Competitive generation :

- ▣ Beside EDF, other competitors (CNR, SNET, SHEM, ...) have generation capacities in France and are supplying, eligible customers

- ▣ European suppliers have directly contracted with eligible customers

- Transmission monopoly :

- ▣ RTE is the french TSO, under the supervision of the french regulator [CRE]

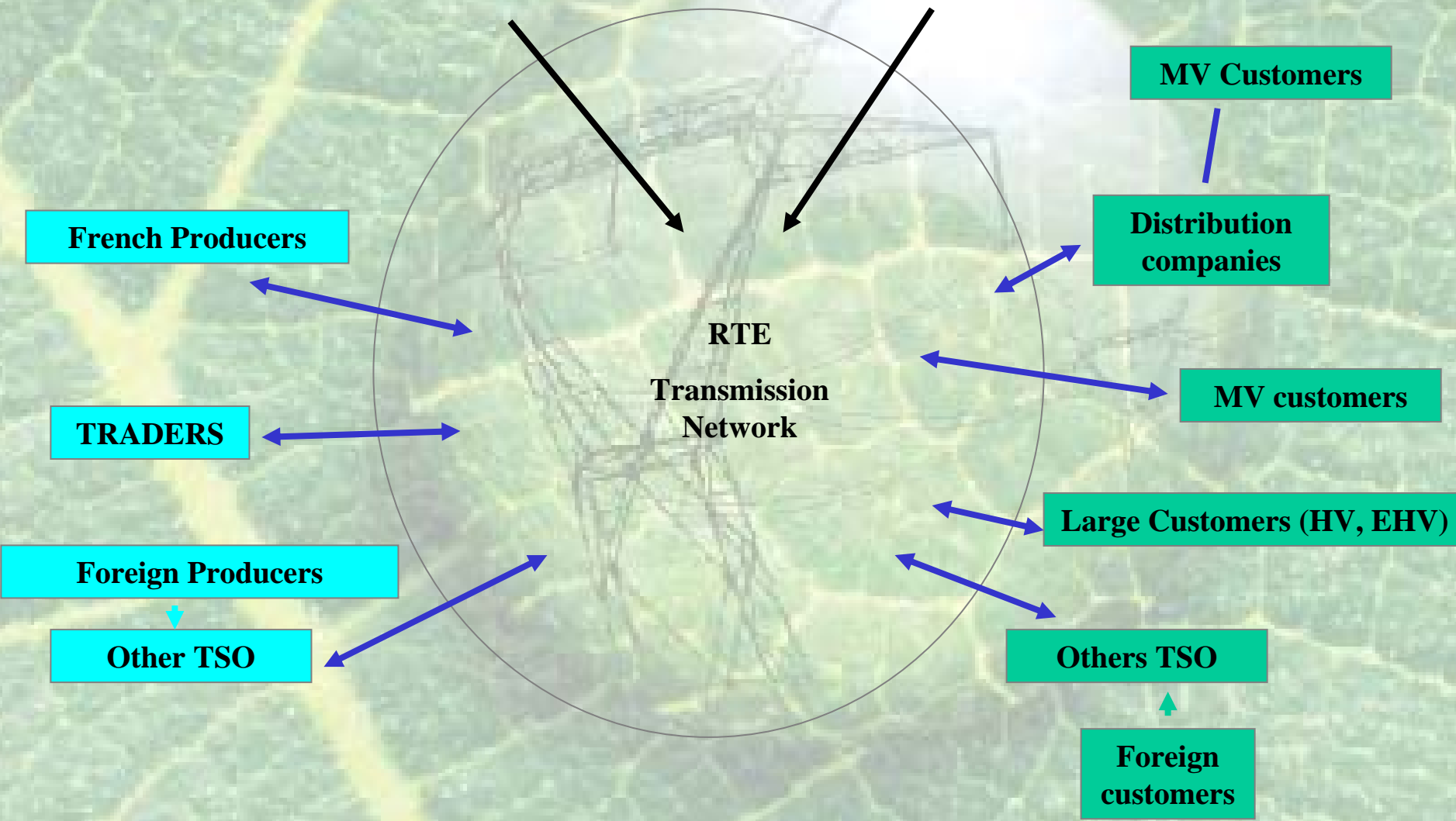


- 22 major local distribution companies + 138 minor

- ▣ local franchises

**MINISTRY OF
INDUSTRY**

**CRE : Commission de
régulation de l'énergie**



RTE 's objectives

- **RTE HAS TO :**

-  **operate**

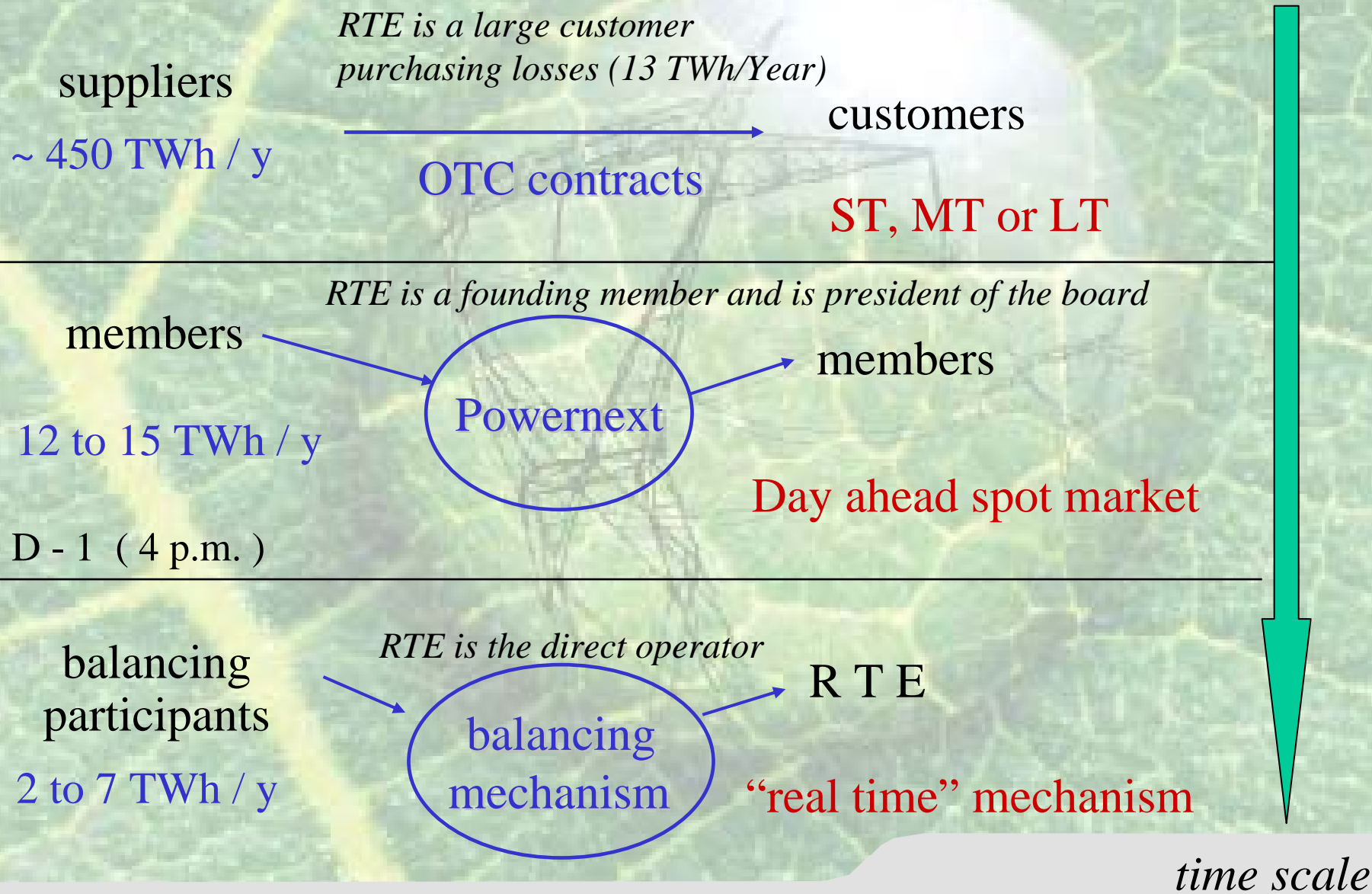
-  **maintain**

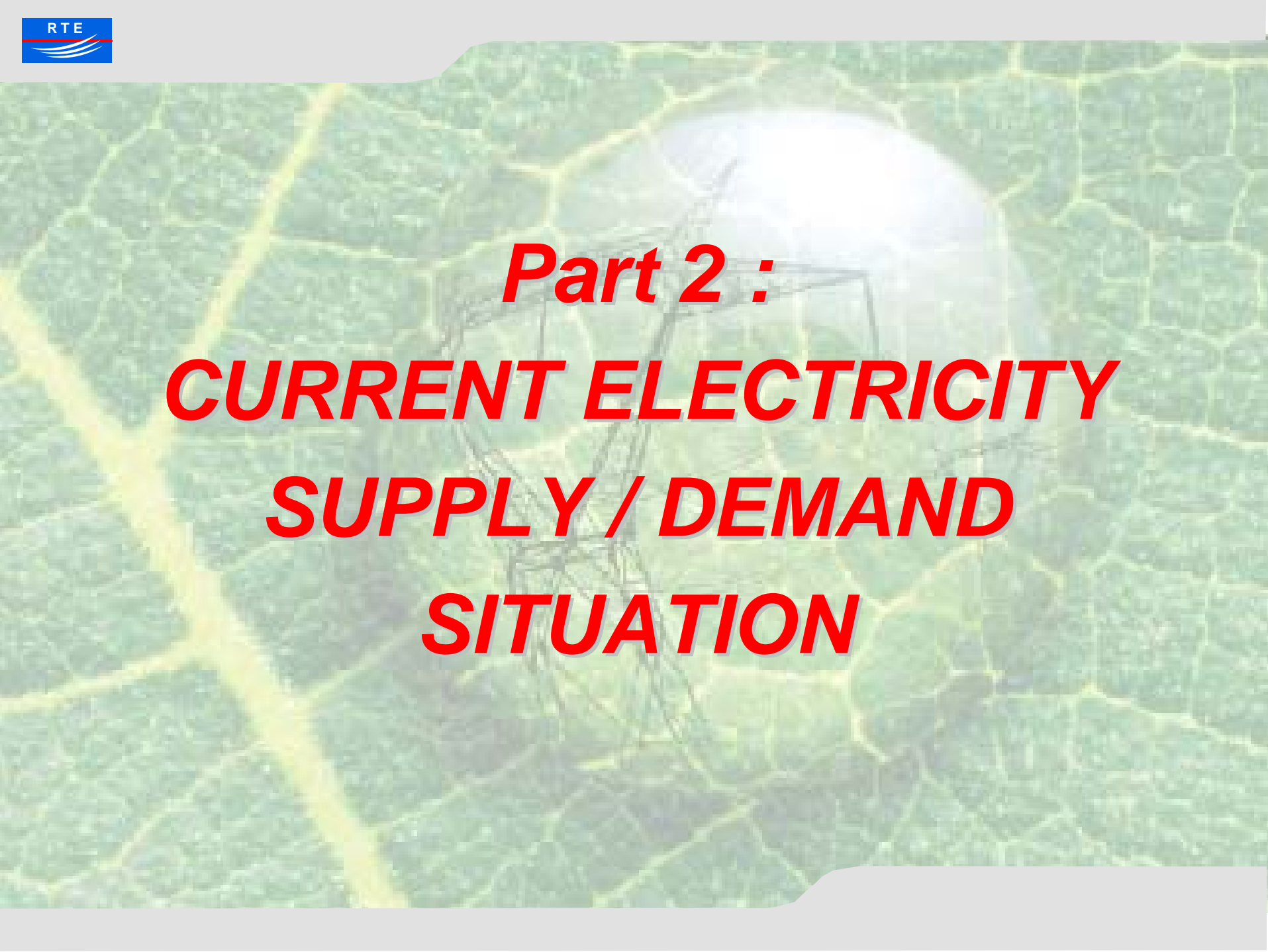
-  **develop**

THE PUBLIC ELECTRICITY TRANSMISSION GRID

- **AND TO GIVE ACCESS TO ALL USERS IN A NON DISCRIMINATORY WAY**

French Market





Part 2 :

CURRENT ELECTRICITY

SUPPLY / DEMAND

SITUATION

RTE : a major actor in electrical demand forecasts

- **Historical roots :**

- ☞ RTE is used to this exercise and has improved methods

- **Central position :**

- ☞ Operating the transmission network, RTE has the records of all consumptions

- **Duty of independance, confidentiality, and public service**

GENERATION ADEQUACY

- **RTE is in charge (by law) of a multi-annual generation adequacy report once every two years ; the report involves :**
 - 📄 a forecast of the total electricity demand (French consumption added to exchanges with other countries)
 - 📄 a comparison of these forecasts with known developments in generation facilities
 - 📄 an evaluation of the required new generation facilities
- **The Ministry of Energy decides the multi-annual generation investment program after the study of this report to guarantee the predefined level of security of supply**

Development Scheme of the grid

- **RTE is in charge of the grid development scheme report once every two years ; the three steps taken are :**
 - 📄 the RTE evaluation of the grid weaknesses taking into account, in each region, the electricity demand, and the generation means
 - 📄 a consultation (organized by public authorities) with the local actors around RTE studies : hypothesis (production, demand forecast) and results
 - 📄 a final shared vision of the long term needs in grid evolutions
- **The Regulator [CRE] gives an opinion, and finally the Ministry of Energy approves the report,**

The background of the slide is a composite image. It features a close-up of a green leaf with prominent yellow veins. Overlaid on this is a semi-transparent image of a high-voltage electrical transmission tower. The tower is a lattice structure, and its top section is brightly lit, creating a glowing effect. The overall composition suggests a connection between nature and energy.

THANK YOU FOR YOUR KIND ATTENTION !