

# THE SOULTZ EGS PROJECT:

# JURIDICAL AND ADMINISTRATIVE ENVIRONMENT

Pauline RAUSCHER, Jean-Jacques GRAFF & Nicolas CUENOT GEIE "Exploitation Minière de la Chaleur" / EEIG "Heat Mining"

Route de Soultz - BP 38 - 67250 Kutzenhausen - France

Tel.: +33 3 88 80 53 63 / Fax: +33 3 88 80 53 51 / www.soultz.net

Corresponding author: cuenot@soultz.net



# **OUTLINE:**

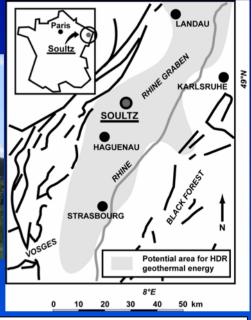
- Overview of the Soultz EGS project
- > Geothermal Research Exclusive Permit
- Exploration Workings Beginning Permit
- > Exploitation Concession
- > Plant Listed for Environment Conservation
- **▶** Conclusion

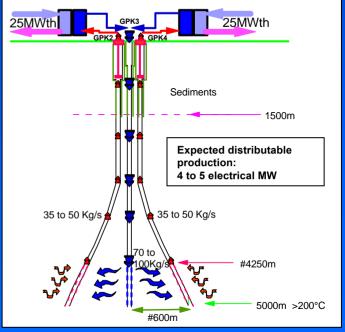


### **OVERVIEW OF THE SOULTZ EGS PROJECT:**

- ➤ Project started in 1987, aiming at producing electrical power from geothermal energy
- > First well (GPK1) drilled to 3600 m depth in 1993
- ➤ Three deep wells (GPK-2, -3 & -4) drilled to 5 km depth in 1999, 2002 and 2004 respectively
- > First successful 2-wells circulation test in 1997
- Successful 3-wells circulation test in 2005
- ➤ Installation of the plant (Downhole production pumps, surface facilities, electrical production unit) in the second half of 2007
- > Start of electrical production: scheduled for beginning of 2008









#### **ORGANIZATION:**

• Funding Partners (Policy Group)

**European Commission (EC)** 

**ADEME (France)** 

**BMU (Germany)** 

**EEIG** (contributing members)

• **EEIG Members** 

(European Economic Interest Grouping)

Electricité de Strasbourg (ÉS)

Pfalzwerke (PW)

**Electricité de France (EDF)** 

**Energie Bade-Württemberg (EnBW)** 

STEAG

**BESTEC** (non contributing member)

• **EEIG Partners** (Consortium Agreement)

**BRGM (France)** 

**CNRS (France)** 

IFE (Norway)

**DHM (Switzerland)** 

**BGR (Germany)** 

**GGA (Germany)** 

MeSy (Germany)

**GTC (Germany)** 

Other Partners

**ARMINES** (France)

**GEOWATT (Switzerland)** 

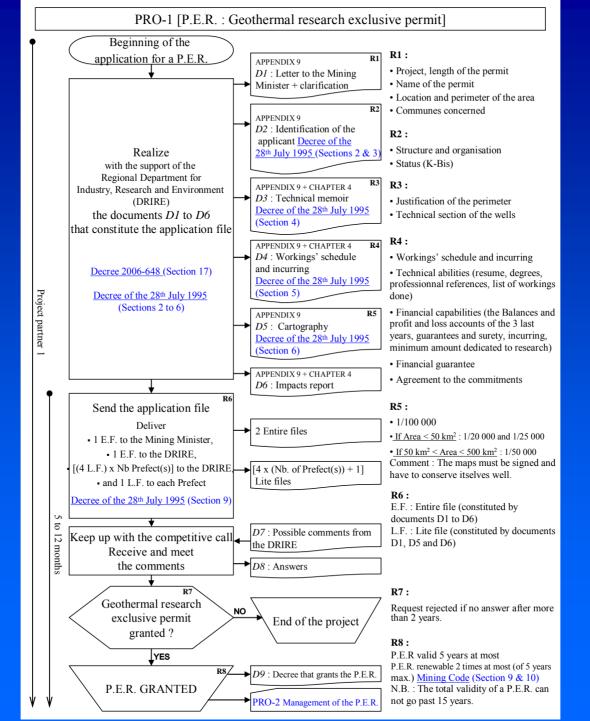
EDF R&D (France & Germany)

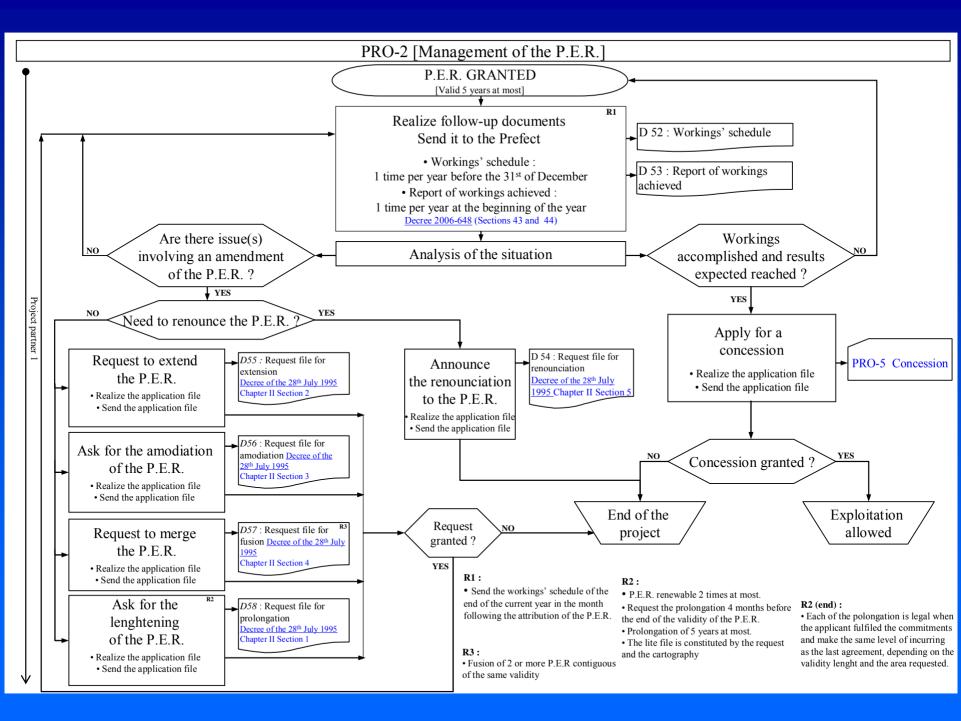


#### **Geothermal Research Exclusive Permit:**

- > PER in French
- > Determines an area within which the permit holder has exclusive rights of prospecting
- ➤ Application file to be sent to Mining Minister, DRIRE and Prefect
- > Put in competitive call for 1 month
- ➤ Need 5 to 12 months to get the answer (rejected if no answer after more than 2 years)
- ➤ Valid for 5 years at most, renewable twice at most (5 years max each time)





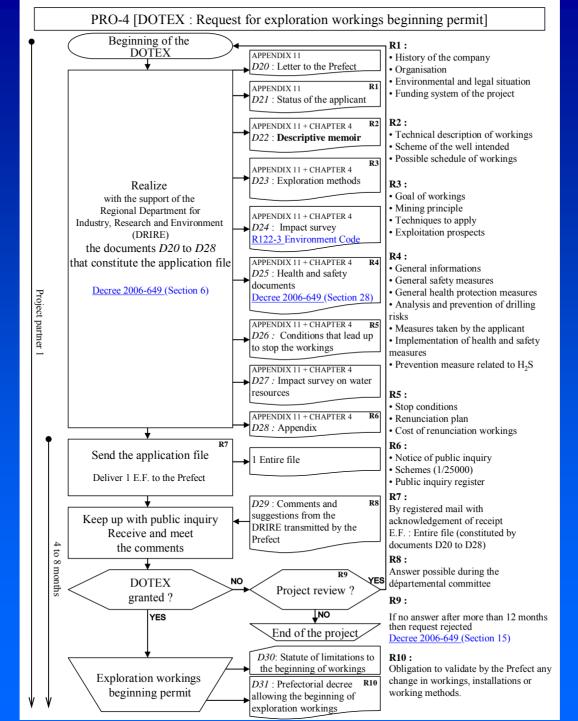




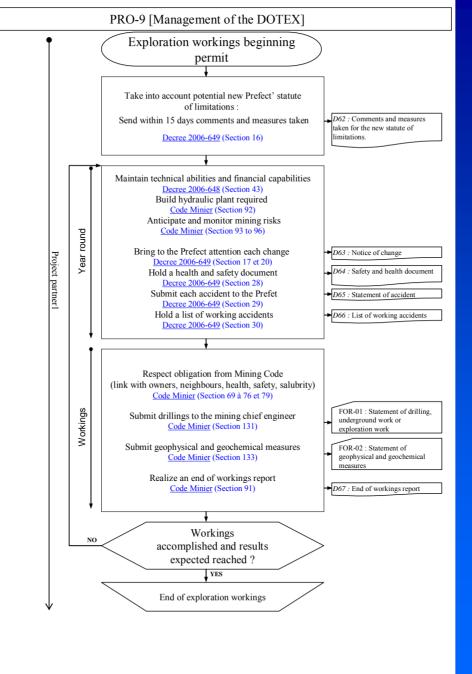
# **Exploration Workings Beginning Permit:**

- > DOTEX in French
- Request to get the right to drill a well
- Application file to be sent to the Prefect
- Need a public inquiry
- ➤ Need 4 to 8 months to get the answer (rejected if no answer after more than 12 months)







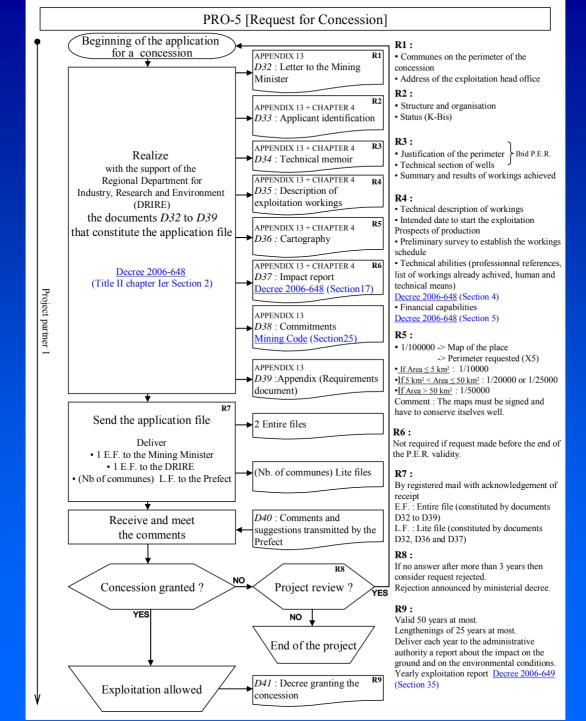


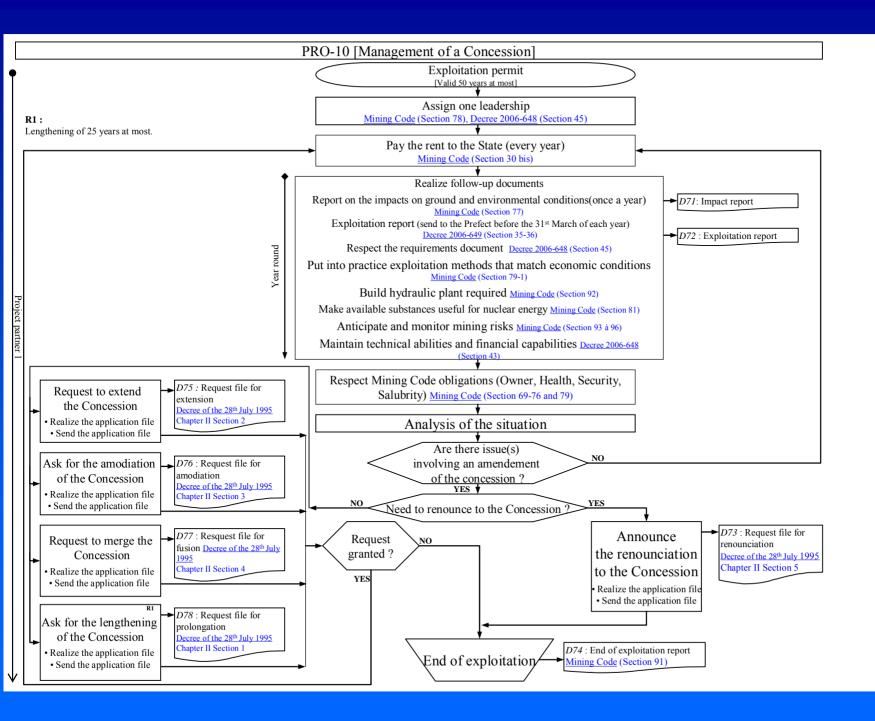


# **Exploitation Concession:**

- ➤ Request to get the exploitation rights on the discovered geothermal field
- Application file to be sent to Mining Minister, DRIRE and Prefect
- > Has to be requested 2 years before end of the PER
- ➤ Rejected if no answer after more than 3 years
- ➤ Valid for 50 years at most, can be lengthen for 25 years





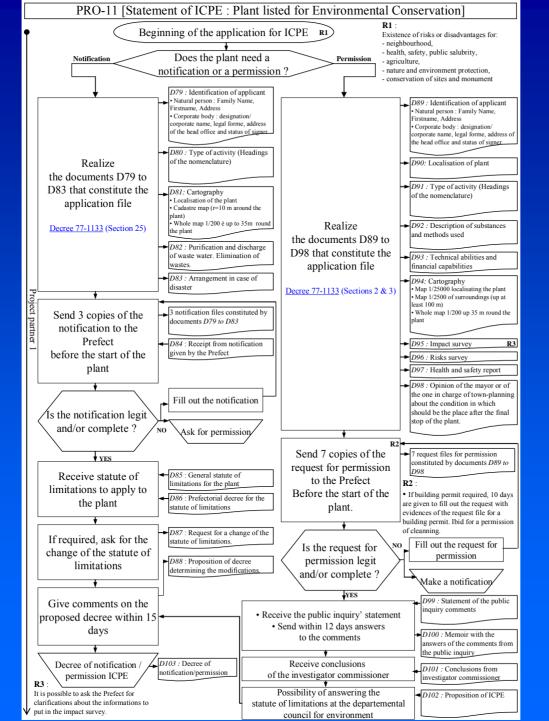


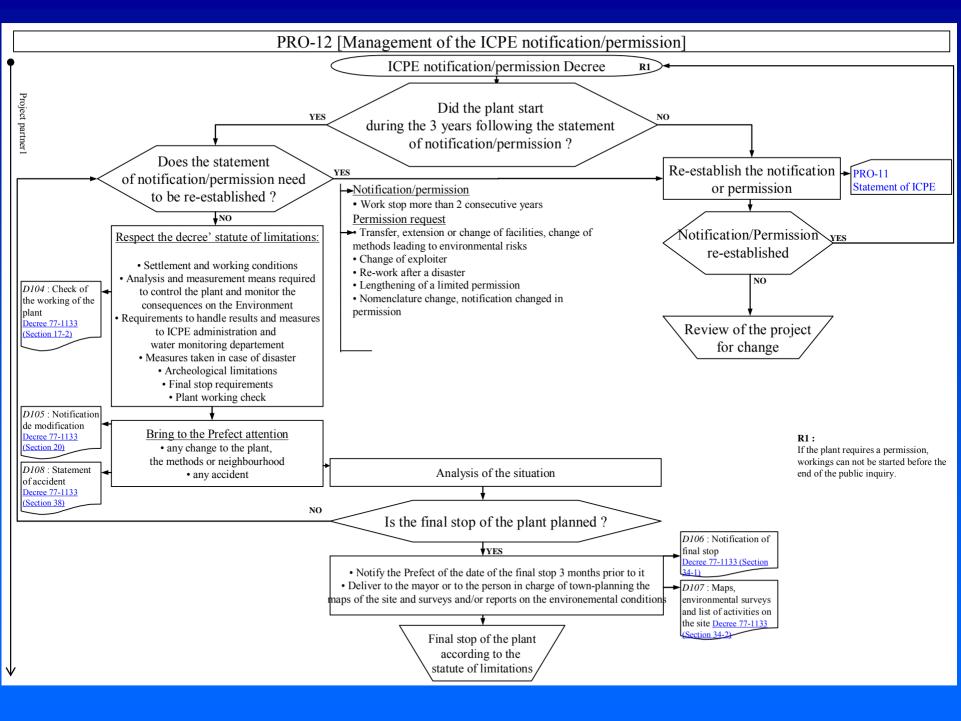


#### **Plant listed for Environment Conservation:**

- > Use of inflammable fluid in the power conversion unit
- → Plant listed for Environment Conservation (ICPE in french)
- Application file to be sent to Prefect
- > 2 cases: notification or permission
- > Notification: procedure more simple
- ➢ Permission: need a public inquiry, report made by a commissioner after examination by different administrative authorities
- ➤ Application file could require at least 6 months to be fully studied









#### Conclusion:

- ➤ In France, there is no specific legislation for geothermal energy. All depends on the Mining Code.
- ➤ Numerous authorizations to get, before any stage of the development of the project.
- ➤ The examination of the requests for the different permits takes generally several months.
- ➤ The total duration of all administrative procedures, which are necessary to build a project, can be up to 3 years. In the best case, that is, without any opposition or complaints...



