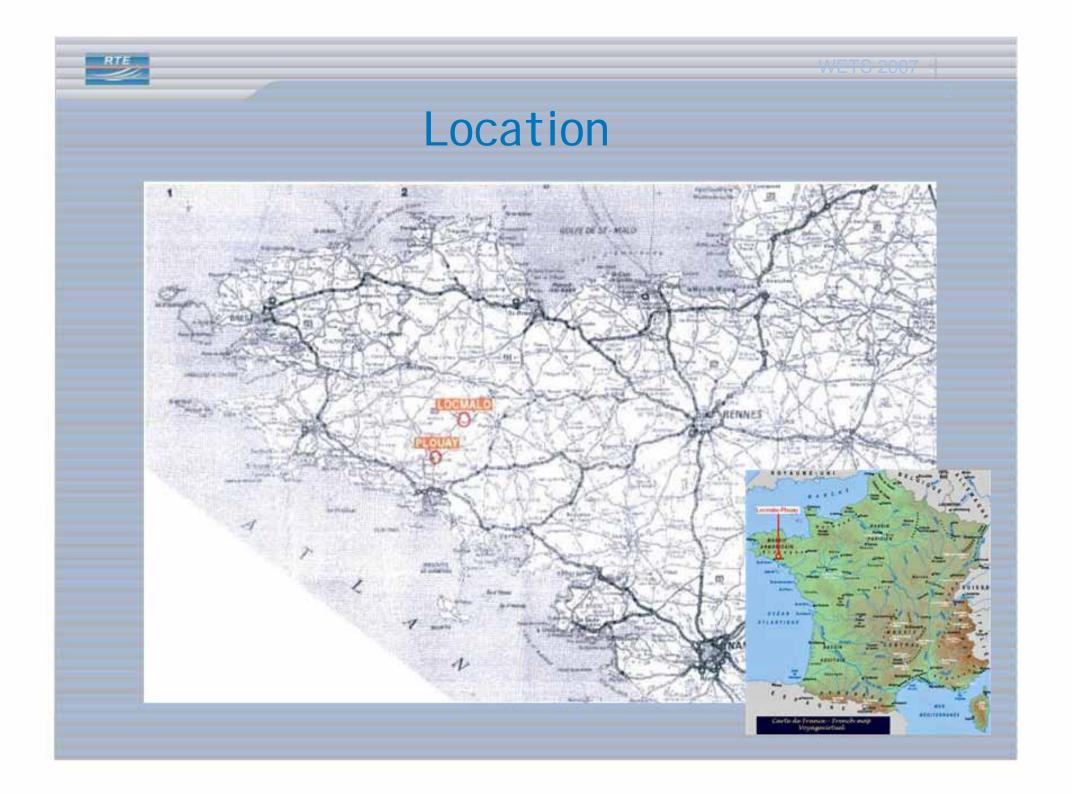


Gestionnaire du Réseau de Transport d'Electricité

Locmalo-Plouay





Commissioning date : February 2005

Characteristics

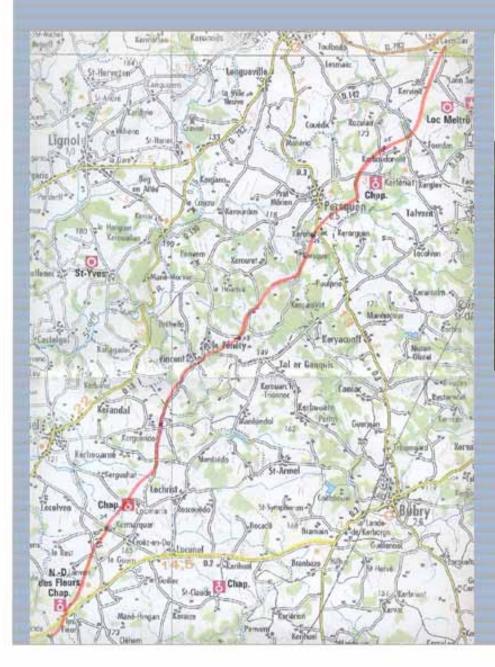
- elength : 20 km
- •100% rural area, straight cable route
- •Transmission Power : 77 MW in nominal conditions
- Cable Design

•63 kV 800 mm² cable Aluminium conductor Aluminium sheath

- •Overall diameter : 68,5 mm
- •Weight : 5,1 kg/m

WETS 2007

Cable route



RTE







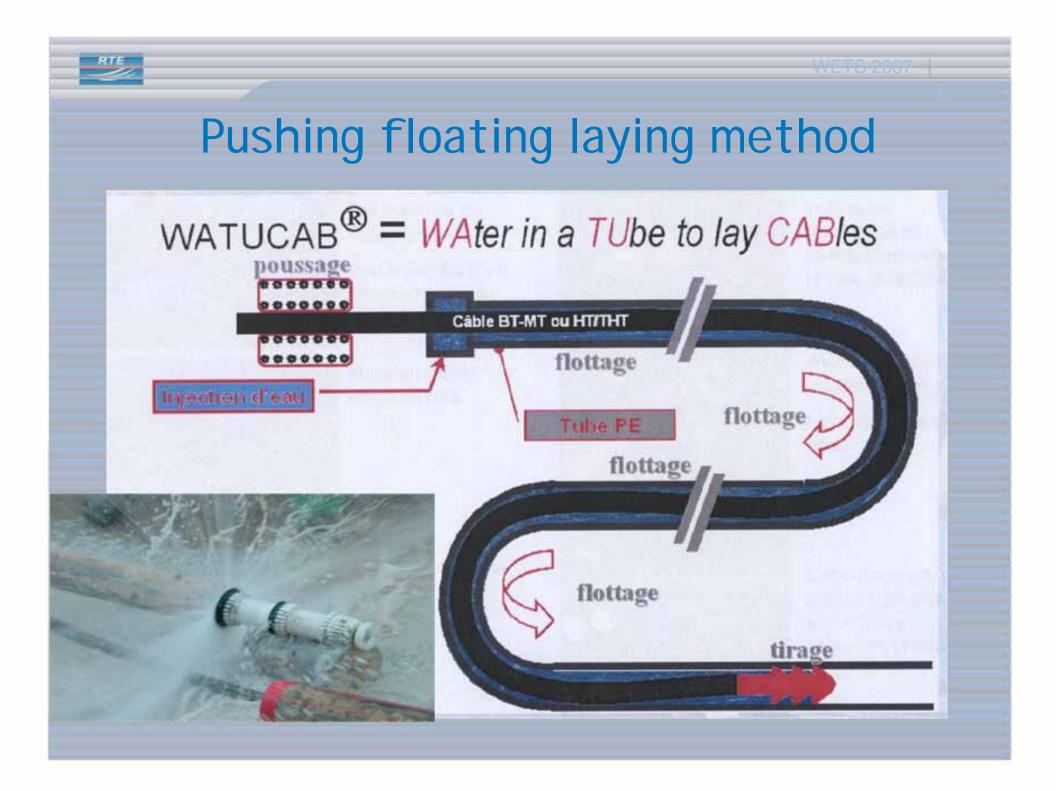
Technical Innovations

Transverse welding of Aluminium sheath

- •cable lengths from 2 811 m to 3 304 m
- •5 joint bays instead of 11

Pushing floating laying method

- Intersection of the section of th
- Pulling Speed : 20m/minute instead of 13m/minute with classic laying method





Environmental study

(Environmental Study from 2004 to December 2006)

Improvement of RTE knowledge in environmental impacts of underground lines during :

•Working Phase

Recovering Phase

Study content

actual impact on the physical natural and farming landscape
vegetation behaviour above the UGC

determination of impact limitation measures

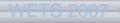


July 2005

RTE

Juggood

The healing process is observable in the natural grassland





Main Results

Working Phase :

Slight differences between the real impacts observed and the ones mentioned in the Environmental Impact Assessment

Recovering Phase :

•Healing process observable in the natural grassland;

•Need for special attention to the wetlands (ruts impacts due to the soil sensitivity). Nevertheless, new habitats favourable to the development of biodiversity were generated;

•Vegetation renewal, emergence of micro habitats diversification;

•The draining effect, even if favourable for cultivated areas, may dry wetlands.



Guidelines

During the working Phase :

- Pay a special attention to protect the aquatic environments and sensitive wetlands
- Respect the use of land "horizons" when re-filling the trench
- Reconstitute the crossed riverbanks
- Reduce as much as possible the work footprint in the sensitive areas

Best working period:

- Soil and vegetation: In order to avoid soil and vegetation degradation especially in wetlands ⇒End of summer (avoid rainy periods)
- Wooded areas: less sensitive from an environmental point of view but landowners prefer autumn and winter because of the impact of the wood value.