















# NATURAL GAS GREEN FUEL EXPERIMENTATION COTE D'IVOIRE



## NATURAL GAS: GREEN FUEL EXPERIMENTATION COTE D'IVOIRE





### **SUMMARY**

#### **INTRODUCTION**

- I. PILOT PROJECT GNV PETROCI/SOTRA
- **II. RESULTS OBTAINED**
- **III.PERSPECTIVES**

#### **CONCLUSION**



### INTRODUCTION

The preservation of the environment occupies a place of choice in the policy of the Ivory Coast government.

Car traffic, the main cause of air pollution and noise nuisance has been the subject of many reflections in the framework of the promotion of sustainable mobility and a new generation of vehicles using clean and economical alternative fuel. The development plan, in its action matrix, has integrated projects into the framework of a sustainable development scheme.

The Ivorian Government, anxious to register in this dynamic, has authorized the companies Petroci and Sotra to implement, an experimental project of natural gas propulsion buses in Ivory Coast.

A first in West Africa

# PILOT PROJECT EXPERIMENTATION GNV

#### **TRAINING**

The taking of control of this technology required the elaboration and implementation of a comprehensive training plan internally and on the sites in operation in France and in England.

Development Training Plan

For the technical and commercial operation of buses (Maintenance and driving)

Training of the machinists of the Sotra to the gas bus line.

nmersion of Sotra agents in a Natural Gas transport company (Vitalis Poitiers véolia Bordeaux.)

RODUIRE L'ENERGIE

Taining on the site of the Sotra by the manufacturer.

# PILOT PROJECT EXPERIMENTATION GNV

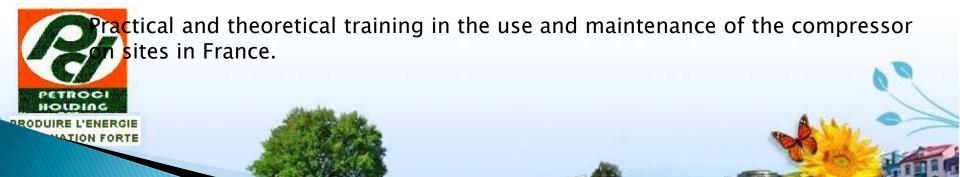
Formation of Sotra Agents in the visual inspection of reservoirs.

Training of Sotra agents on site at Level 2 maintenance of the bus gas circuit.

For the management of the compressor

Theoretical and practical training on the factory compressor (Ipswich/England).

Theoretical training on the compressor in the manufacturer (Comptair France).



# PILOT PROJECT EXPERIMENTATION GNV

Practical and theoretical training of stakeholders by the on-site builder at Sotra.

Theoretical and practical training by the Gas Research centre of France on its site and the site of the Sotra.

This plan was implemented



### **COMPRESSION STATION**





### RESULTS OBTAINED

Economic
 Economical reduction of operating costs by the reduction of fuel cost

Environmental

Reduction of noise pollution Suppression of particulate matter and black smokes

Social

Comfort of customers and drivers no increase in ticket prices

Emission reductions from gasoline



25% carbon dioxide CO2 less 55% NOx oxides less than 55% carbon monoxide Co less



85% Now itrogen oxides less than 98% of soot parties less than



### **PERSPECTIVES**

Acquisition of 50 bus GNV every year over 4 years

Increase in the number of bus reservoirs from 7 to 9

Optimization of the operating conditions of gas buses BRT)

Extension of the use of the GVN to the bus boats of SOTRA

Opening of Ivorian market to natural gas vehicles



COMPRESSEUR GAZ NATUREL PETROC



# Thank you

