



Argentina's NGV Program

Jorge Doumanian
Technical Director

gasNatural_{BAN} ARGENTINA

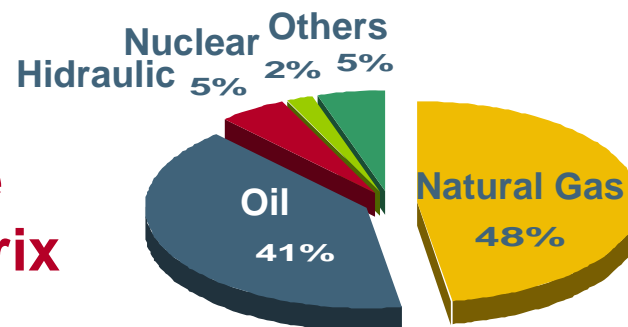
UNFCCC-COP 9 Milan, Italy

4th & 6th December 2003

Natural Gas in Argentina, a Mature Gas Country



← A 48 % penetration of natural gas in the primary energy matrix



← Abundant gas reserves. (17 years, 764 BCM)

← A transmission grid covering the entire country.

← Utilities provide gas service to exclusive regions.

← Regulated gas transmission and distribution.

← Unregulated gas production (46 BCM per year). (for local consumption & exports)

Argentina at the NGV's World

1,062,575 converted vehicles (15% of the total number
of vehicles in the country)

1,113 - filling stations spanning the entire country -

1,583 - conversion shops -

7,5 MM tons of CO2 reduction (estimated)

2,000 MM m³ - annual sales -

1,3MM T.O.E market participation

Origin of the Argentine NGV Program

← NGV Program started in 1985 (2 filling stations and 600 cars).

← Basic motivation: substitution of liquid fuels.
2 MM T.O.E with NGV in a 10 years period

← Government as planner and private implementation.

← Driver: price differential between CNG and gasoline.

← NGV Program was favoured by macro-economic factors

Argentine NGV Program

Achievements

**A mature
and reliable
system**

**NGV filling
stations along
the whole
country**

**Decrease in
the cost of
conversions**

**Industrial
development &
Technology**

**Widely used
in different
type of light
duty vehicles**

Argentine NGV Program

Lessons To Learn

**Formal planning
as a
Methodology**

**Tax & prices
policies**

**Approach for
Trucks &
Buses
Conversion**

Argentine NGV Program

From the
Present
to the
Future

Extension of
the Program to
Trucks & Buses

Technological
challenges

Promotion
Measures &
Subsidize
Program

Competitiveness
of the NGV

NGV 2004 “Road to a better world”



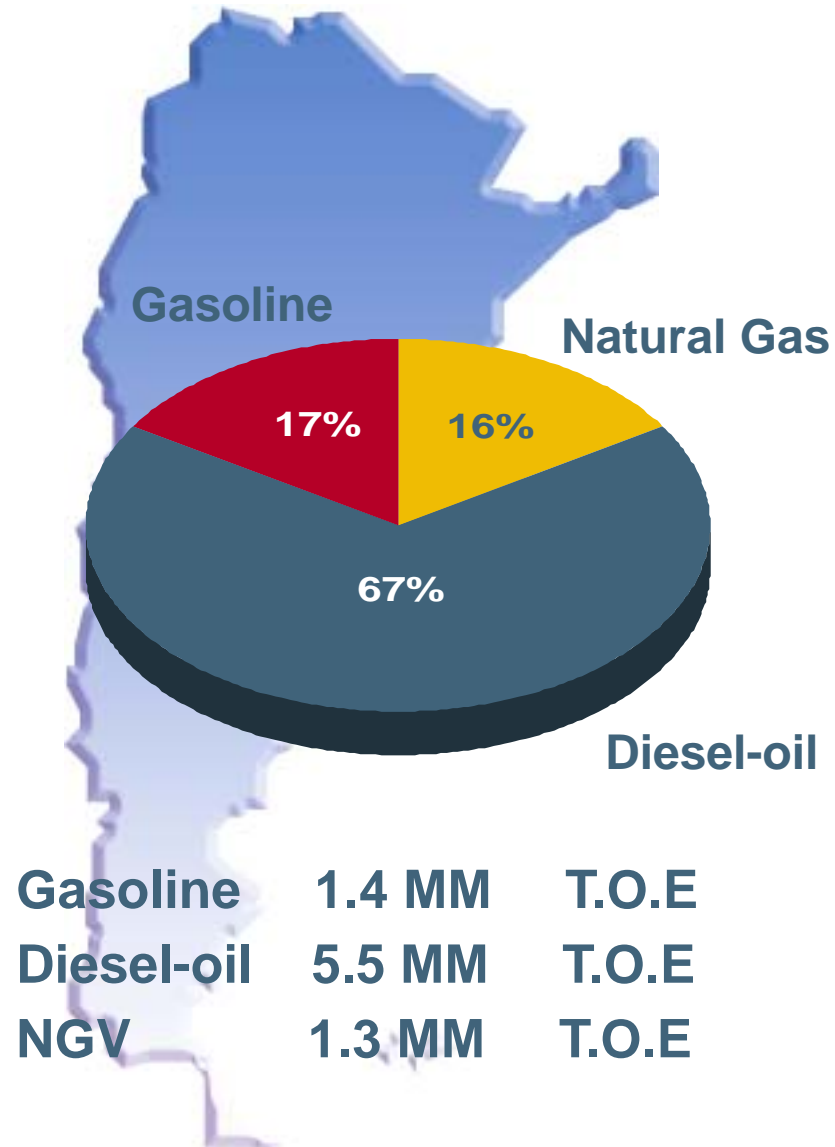
**9th IANGV
(International
Association for
Natural Gas
Vehicles)
biennial
Conference and
Exhibition**

October 26th - 28th, 2004

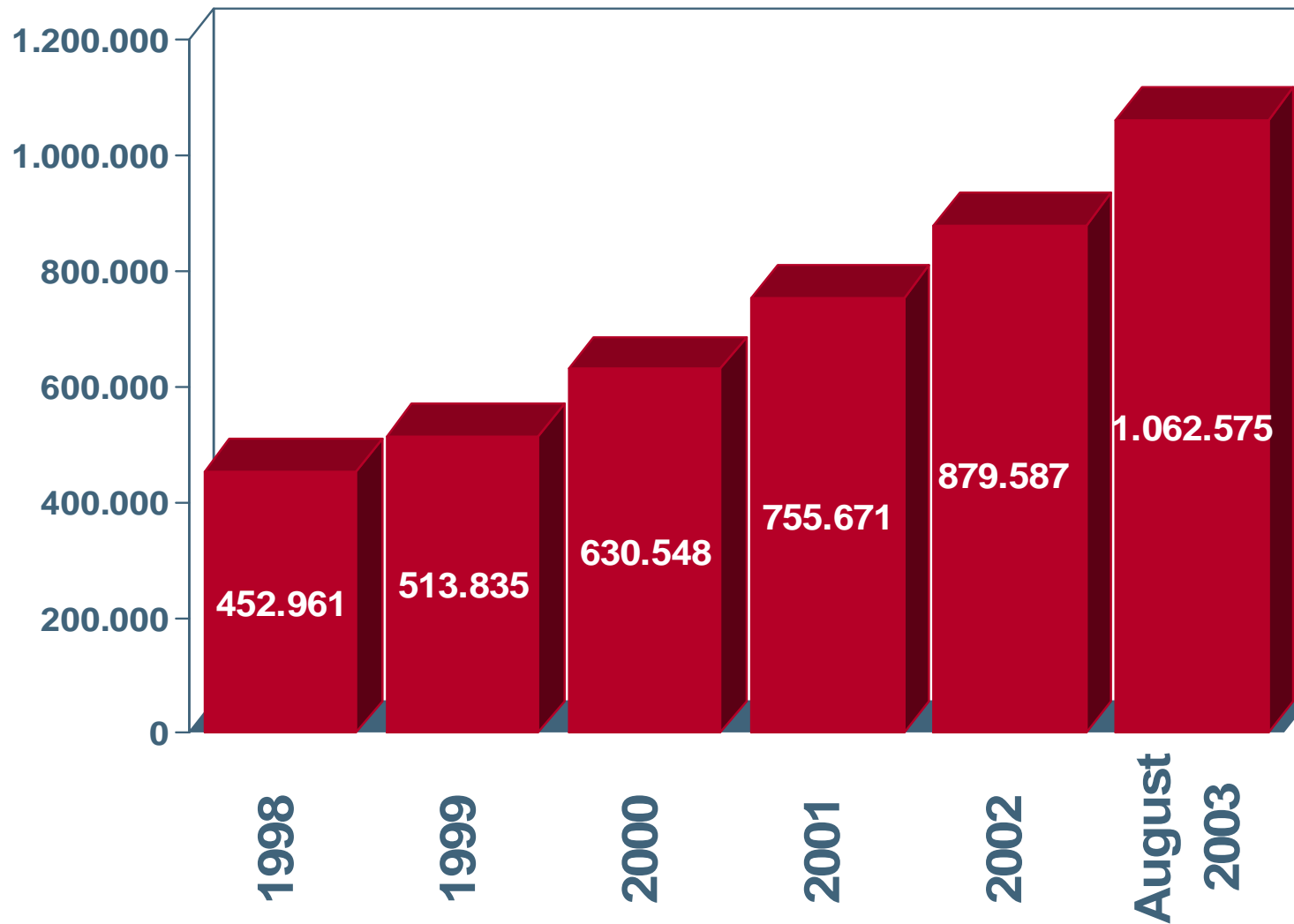
<http://www.ngv2004.com>

Argentine Gas Market

Fuels Market

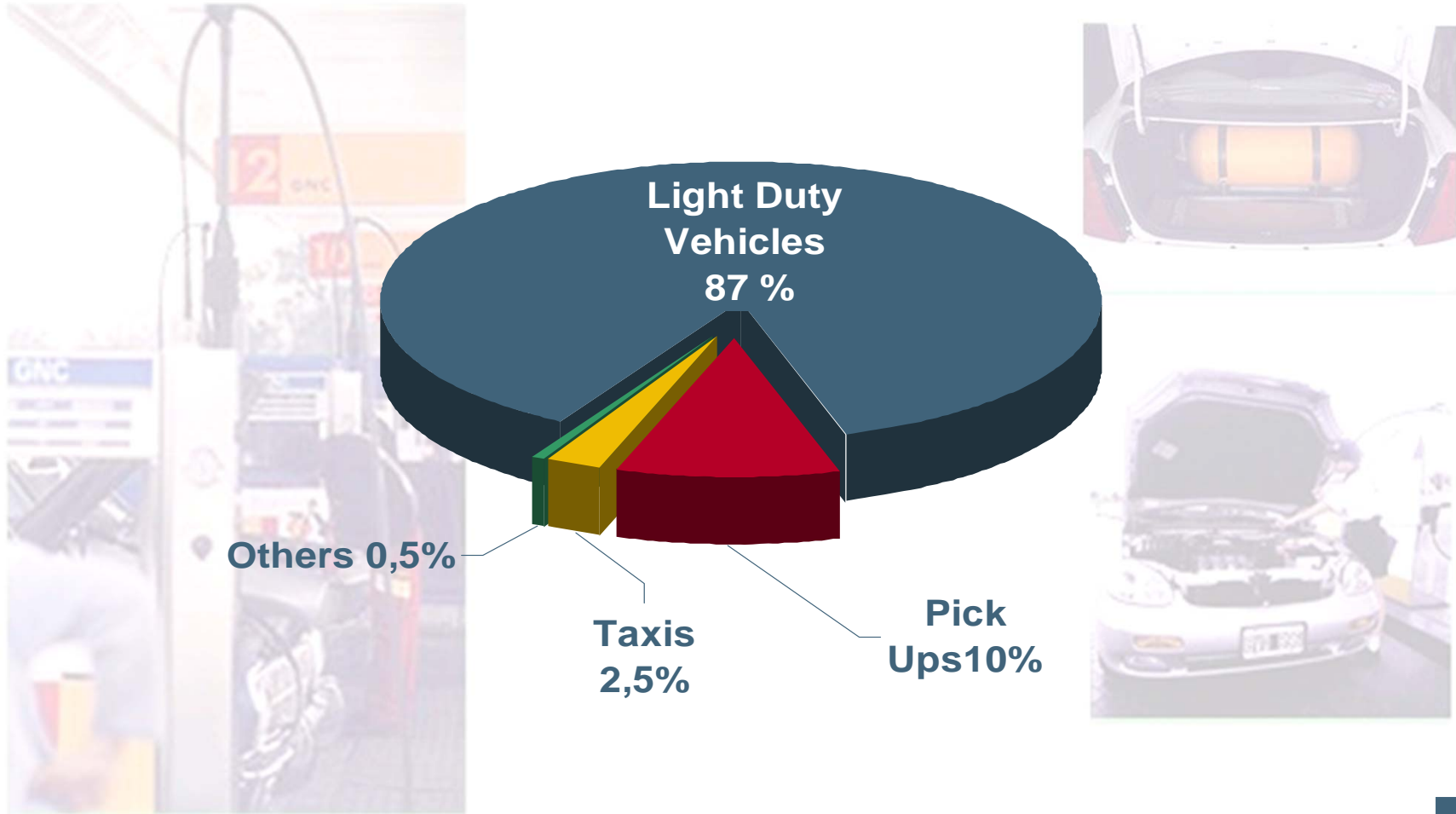


Argentine NGV Progression 1998-2003



*ENARGAS August 2003

Converted vehicles by type



Main Technical & Control Characteristics of the System that support the NGV Program

- ← **Strong Technical & Safety Standards** [http://www/enargas.gov.ar](http://www.enargas.gov.ar)
- ← **Converted vehicles are subject to periodic inspections.**
- ← **Equipment and materials require certification.**
- ← **Conversion shops and labor are subject to verification.**
- ← **Strict safety rules are established for filling stations.**



Average price diferencial CNG-Gasoline-Diesel

