ALSET

Materials Innovations In An Emerging Hydrogen Economy February 24th, 2008

Title: Introduction of the Hydrogen Economy in Emerging Markets

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About Alset



Company:

Alset Technology LLC is an American Technology Company, with offices in several locations including Argentina

Areas of R&D:

Alset is working on technologies for the transition to the Hydrogen economy:

- INTERNAL COMBUSTION OF HYDROGEN
- HYDROGEN PRODUCTION







Agenda



Hydrogen Economy Overview

Main Implications

Key Issues for the New Economy

Example of successful implementation of a new fuel

Key Aspects of the implementation

Conclusions









Main Implications



The Hydrogen Economy is more than "RUNNING WITH A NEW FUEL"

Major impact in the following areas:

Affected Areas

Economy

Environmental

Areas of action

Education

New Policies

Economy Driven by the Market

Industry Transformation

Outcome

National Security

Sustainable Growth







ASET A moment in history



The Economy was driven by **Global Market**



The Economy is driven by **Politics**







Source: Financial TImes



Main Implications



International Energy Agency (IEA) Estimations: Investments are 20% below (20,000 billion investment) needed to assure suitable supply during the next 25 years.

Permanent conflict between offer and demand that force to higher oil prices (The US imports 60% of its oil consumption)

Energy Independency becomes a National Security Issue.





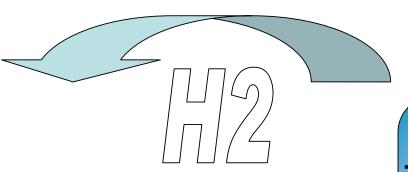




ALSET The New Economy







The Economy driven by **Politics**









Key Issues



For a successful Implementation of the Hydrogen Economy, people have to

ACKNOWLEDGE HYDROGEN AS A

VALID ALTERNATIVE TO GASOLINE.









Key Issues



This means that Hydrogen must be:

• SAFE

CERTIFICATIONS

AVAILABLE

• STRATEGIC PLANNING

ADEQUATELY
 COMMUNICATED

MARKETING AND PUBLIC RELATIONS

AT A COMPETITIVE COST

- ENERGY INDEPENDENCY
- ECONOMIC STRATEGY
- TECHNOLOGY











Example: Introduction of an alternative fuel (CNG) in an Emerging Economy

THE ARGENTINEAN CASE







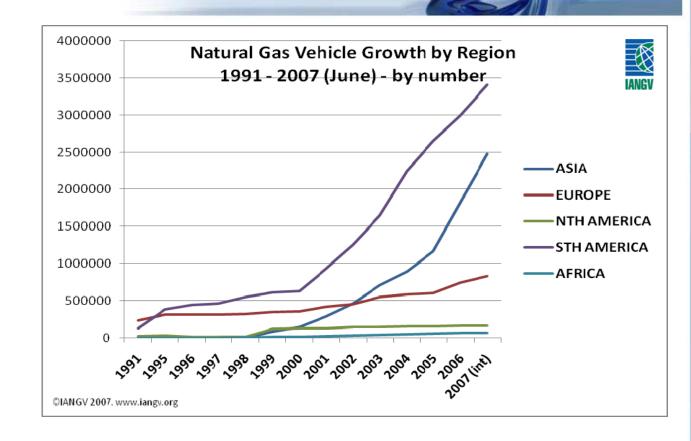
the future of power generation

GLOBAL MARKET

SAFETY

INSTALLED CAPACITY

STATION LOCATION















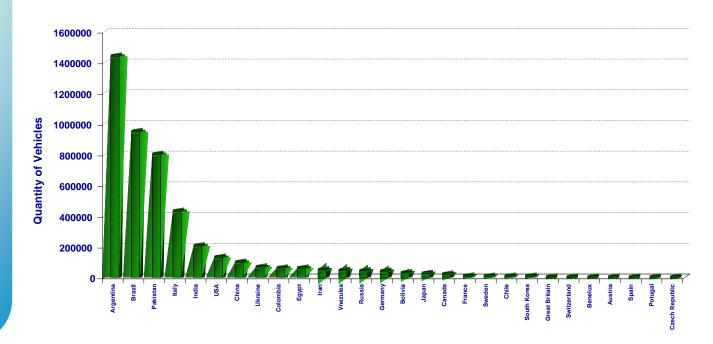
Development of the CNG car transformation in the world

GLOBAL MARKET

SAFETY

INSTALLED CAPACITY

STATION LOCATION















GLOBAL MARKET

SAFETY

INSTALLED CAPACITY

STATION LOCATION

Enargas is an entity that controls everything related to Safety issues: Components, Installations, Stations, among others.











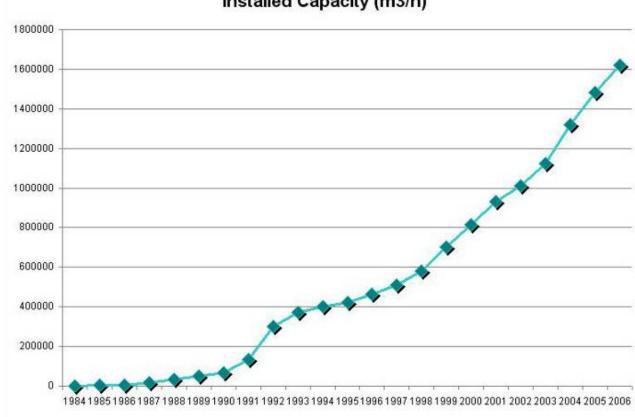
Redefining the future or power generation

Installed Capacity (m3/h)

GLOBAL MARKET SAFETY

INSTALLED CAPACITY

STATION LOCATION





The Argentinean Case











GLOBAL MARKET

SAFETY

INSTALLED CAPACITY

STATION LOCATION

The amount of CNG stations grew **exponentially** in the last 10 years.

The first stations were located at high traffic points to gain maximum exposure in the general public.

They were initially established in low-income neighborhoods (that appreciated the economic advantage)







Redefining the future of power generation













the future of power generation











Redefining the future of power generation











Redefining the future of power generation













Redefining the future of power generation











Redefining the future of power generation



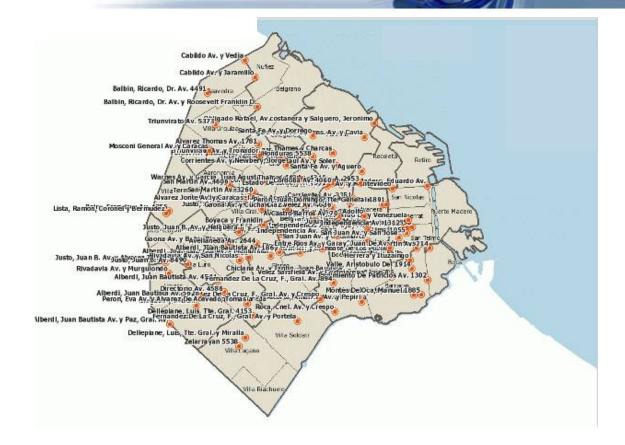








Redefining the future of power generation











Key Aspects



From the CNG experience, we can draw several conclusions:

✓ SAFE

✓ CERTIFICATIONS

✓ AVAILABLE

✓ STRATEGIC PLANNING

✓ ADEQUATELY COMMUNICATED

✓ MARKETING AND PUBLIC RELATIONS

- ✓ AT A COMPETITIVE COST
- ✓ ENERGY INDEPENDENCY
- ✓ ECONOMIC STRATEGY
- ✓ TECHNOLOGY









Similarities



CNG

APPLICABLE TO

H2

- **✓ SAFE**
- **✓ AVAILABLE**
- **✓ COMMUNICATED**
- ✓ AT A COMPETITIVE COST

✓ SAFE

✓ AVAILABLE

✓ COMMUNICATED

✓ AT A COMPETITIVE COST









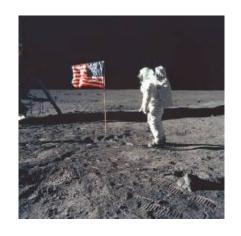


Conclusion



LEADERSHIP ISSUE

THE UNITED STATES HAS
THE CAPACITY TO LEAD
THIS TRANSITION TO THE
HYDROGEN ECONOMY





THE HYDROGEN ECONOMY SHOULD BE The Next Shared vision of America...











THANK YOU VERY MUCH



Be the change you wish to see

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