ALSET

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

Title: Global Perspectives Towards the Establishment of the Hydrogen Economy

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edefining the future

Global Overview

Oil dependency

Alternatives

ALSET Proposal

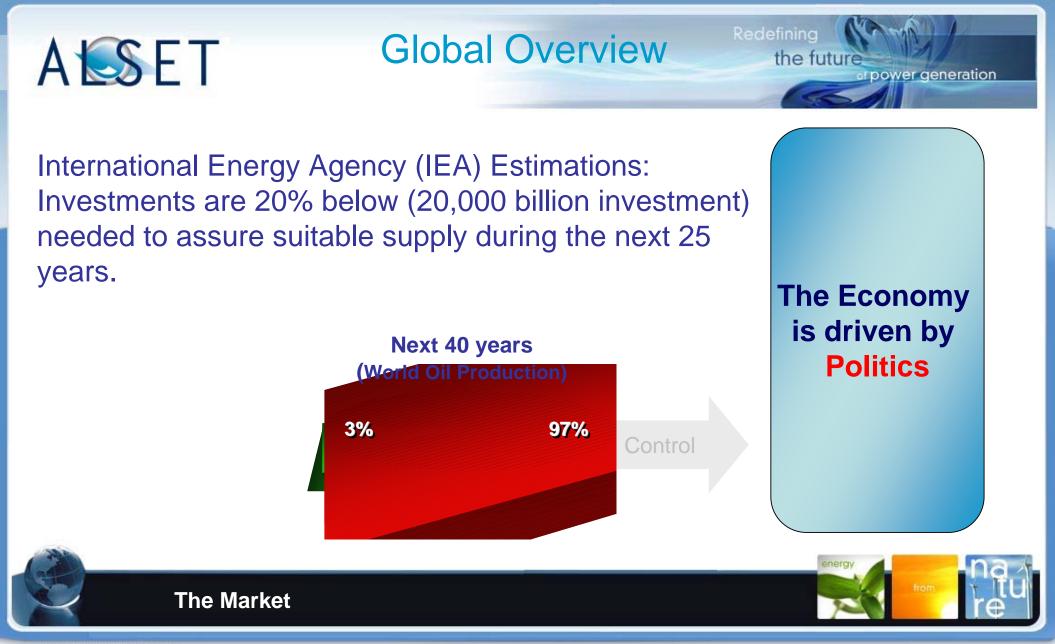
Transition Plan

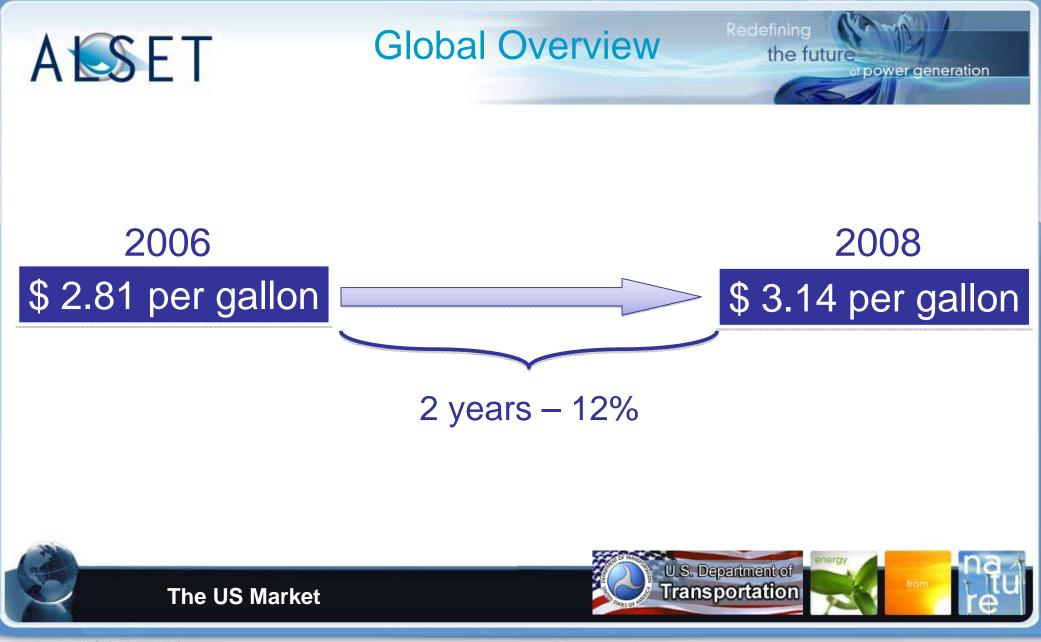
Conclusions





or power generation







AUTOMOBILE INDUSTRY IS EXTREMELY IMPORTANT



Introduction

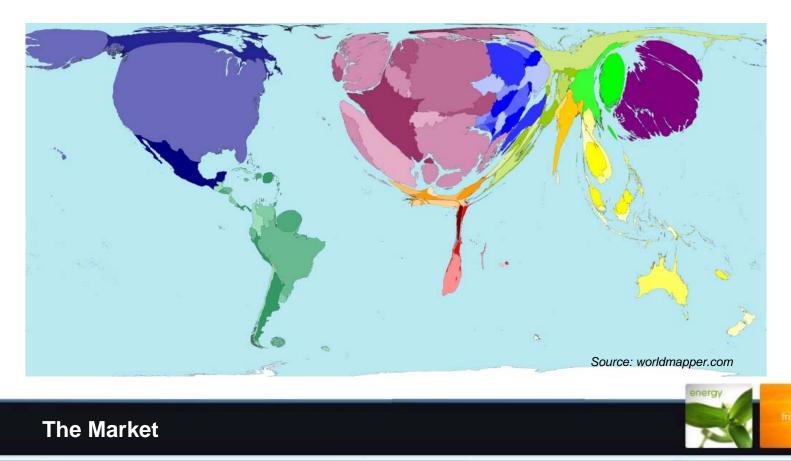
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Global Overview

Redefining the future of power generation

There are 600 million passenger cars in the world, 97% gasoline powered.





Petroleum dependency

The more dependent a country is on foreign fuel, the more interested it will be in an alternative source of power.

Country	Amount	Percentage
imported		
United States	12,220	59,35%
Japan	5,097	97,61%
China	3,438	47,26%
Germany	2,483	94,41%
Korea, South	2,150	99,68%

Thounsands of barrels per day. Source: International Petroleum Monthly There is need for fuel independency

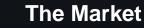
Energy Independency becomes a National Security Issue.

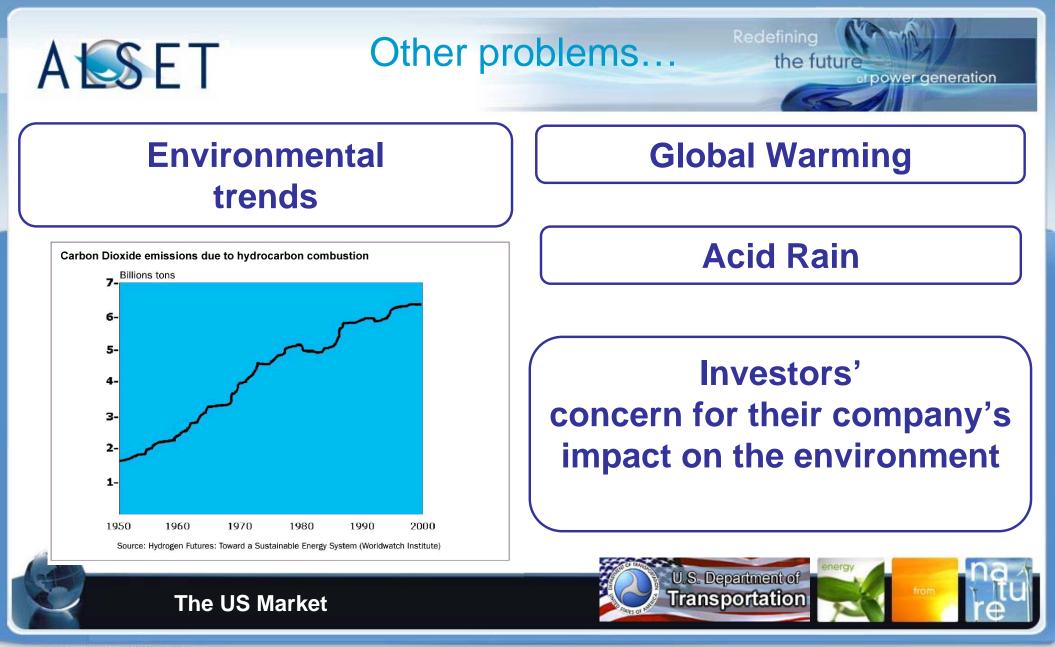
<u>Re</u>definina

the future



power generation







WHAT ARE THE ALTERNATIVES?





Competitive Analysis



Some agricultural products can be converted into fuel.

✓ Biodiesel requiredDiesel engines (less

Several countries, like Brazil, have invested in these technologies.

commodity.



Competitive Analysis





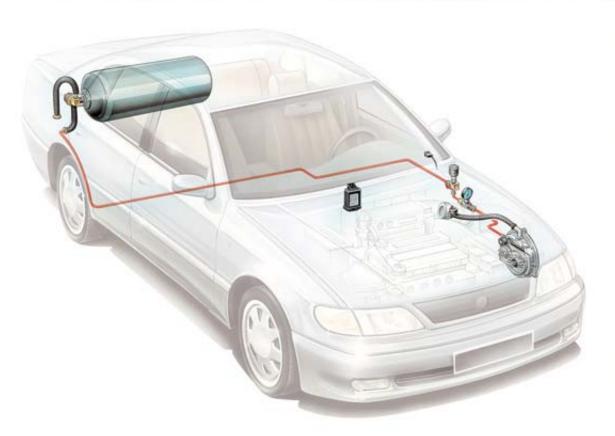
Alternatives: CNG

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 ✓ CNG is substancially cheaper.
 ✓ It is already distributed all over the world

 ✓ CNG is still a fossil fuel.
 ✓ The technology is years old and it never took off in the US





Competitive Analysis





Alternatives: Hydrogen Redefining the future of power generation

Oil price dramatic increase Oil's imminent shortage Rising environmental concerns

Need for a new energy carrier



 \checkmark Available all over the globe \checkmark

Introduction

✓ Clean

✓Fossil fuel independent





Alternatives: Fuel Cell & H2ICE Redefining the future

power generation

Fuel Cell cars

✓ Hydrogen consuming baterry
✓ Electric engine
✓ Zero emissions!

Internal Combustion

✓ Mature Technology✓ Allow Bivalent Operation✓ Near Zero emissions

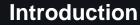




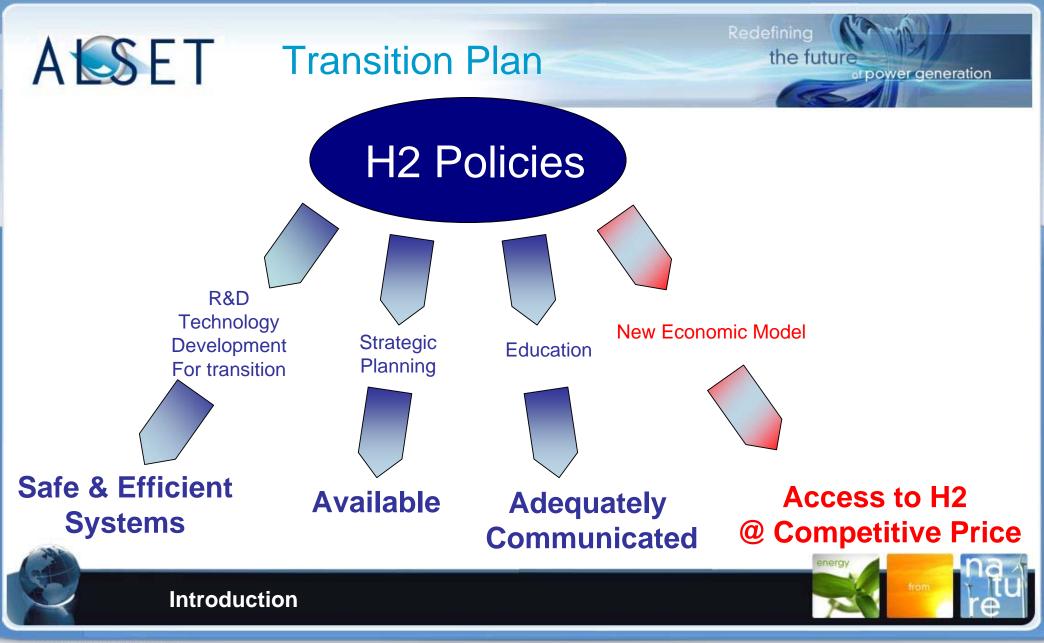
There is a need for

The development of Technologies that allow the transition from fossil fuel to Hydrogen











Source: Financial TImes

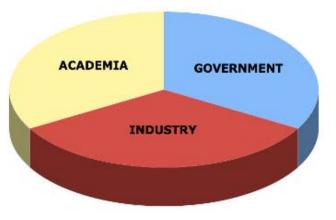




Redefining the future

of power generation

THERE HAS TO BE CONSENSUS AMONG







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For a successful Implementation of the Hydrogen Economy, industry and future consumers have to:

ACKNOWLEDGE HYDROGEN AS A VALID ALTERNATIVE TO GASOLINE

HAVE ACCESS TO HYDROGEN AT COMPETITIVE PRICES

WE NEED TO START TODAY TO DO THE TRANSITION







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Alset Technology:

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

State of the art Technology for Internal Combustion of Hydrogen
Hydrogen Production





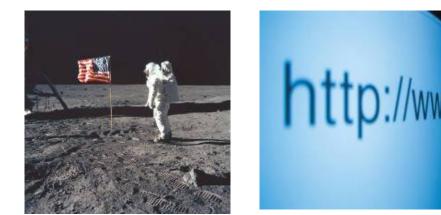


Conclusion

Redefining the future

LEADERSHIP ISSUE

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



H2 ECONOMY SHOULD BE The Next Shared vision of America...





power generation





THANK YOU VERY MUCH



Be the change you wish to see

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