



Synfuels International, Inc.

A New GTL, A Better GTL

- ✓ *In-Field Flaring Reduction*
- ✓ *Remote On-site Processing*
- ✓ *Scalable from 5 ->250 MMSCFD*
- ✓ *Ready for Transport Liquid*
- ✓ *Low Capital Cost*
- ✓ *Clean Burning Gasoline Production*
- ✓ *High Grade Ethylene Production*

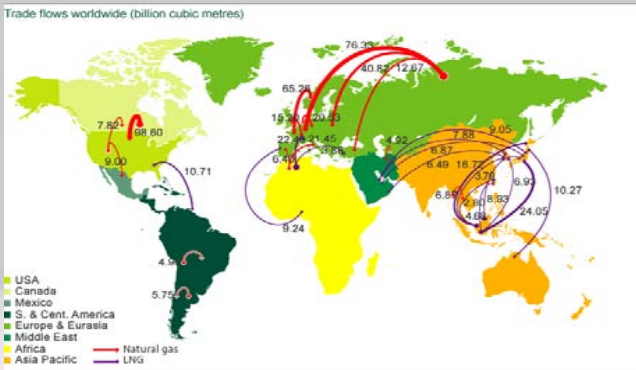
December, 2008
A presentation to:



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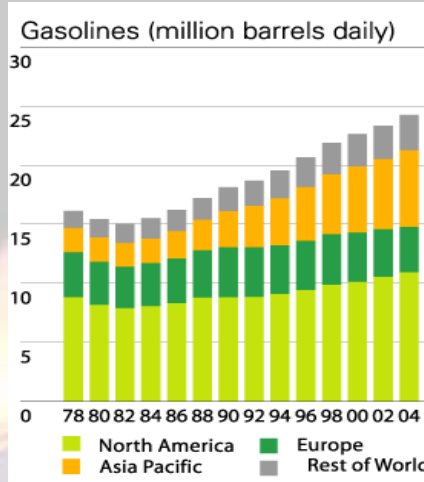
Its About the Pipelines ! Its about "Glocal" Demand !

Limited Gas pipeline networks create the demand for Synfuels plants globally



Natural gas is in high demand. The economic and physical constraint is transportation. Synfuels converts gas to gasoline for local use or easy transportation in trucks or oil pipelines.

Growing demand for gasoline creates the need for Synfuels plants



The gasoline market is growing rapidly in Asia and is ideally served by stranded gas GTL plants

Ethylene based products are growing rapidly in demand.



Synfuels GTE plants produce ethylene for plastic and clothing fabrics establishing local, value adding industry.

ASSOCIATED GAS Potential

According to the World Bank, Global Gas Flaring Reduction Partnership, 5.3 trillion cubic feet of natural gas are being flared and vented annually.

A typical, in field flare elimination, Synfuels GTL plant is 20 MMSCFD. If just 10% of the flared gas worldwide is eliminated by Synfuels GTL plants and Synfuels plant owners received \$70.00 per barrel of gasoline, then they would earn:

>\$3.1 billion Clean Gasoline / year!
(~44 million bbl)



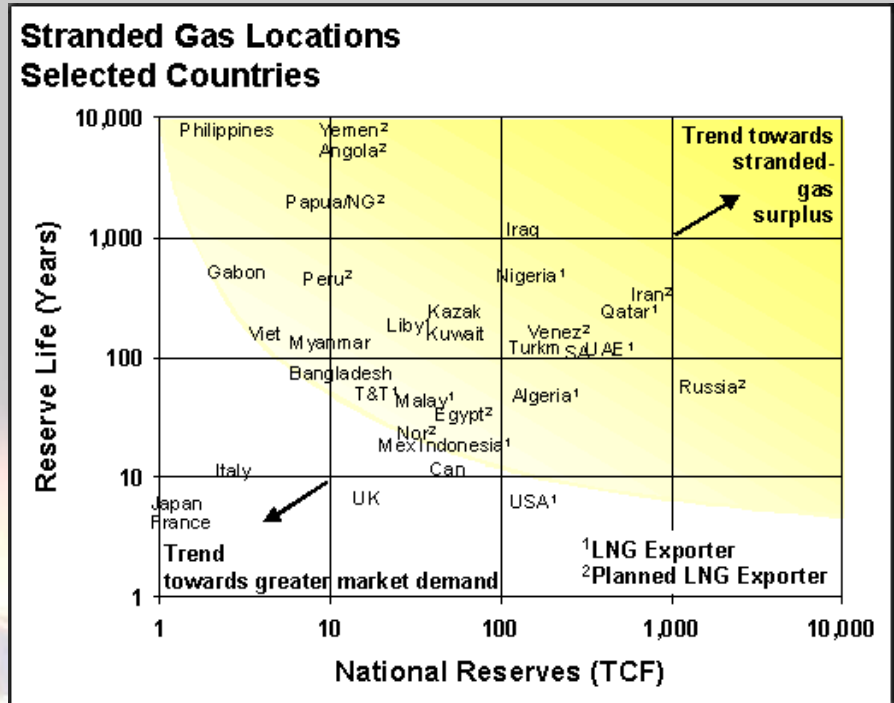
The Opportunity: \$ Billions

STRANDED GAS REVENUE

Approximately 40% of the world's available natural gas reserves are classified as "stranded gas." BP and the US DOE have estimated there is as much as 3000 TCF of Stranded Gas worldwide.

If just 10% of the stranded gas worldwide is processed by Synfuels GTE & GTL plants, it would earn:

\$1.75 trillion Clean Gasoline
 (25.0 Billion bbl)



GTL LEADERSHIP NOW!

- ✓ **Breakthrough Technology**
- ✓ **Breakthrough Economics**
- ✓ **Environmental Leadership**

Synfuels GTL & GTE is not a Fischer-Tropsch process.
Synfuels technology was developed in USA in the 1990's and has been commercialised by Synfuels International, Inc.

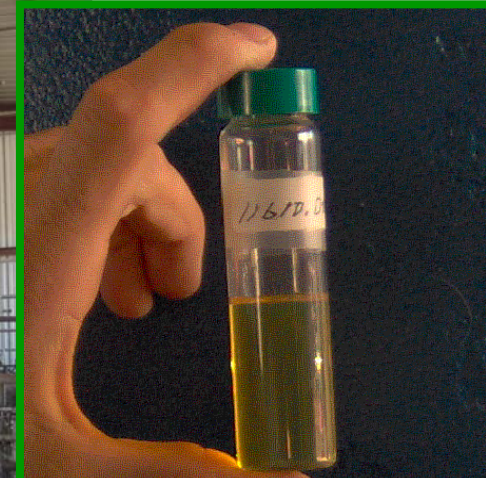
Intellectual Property

Synfuels Technology is covered by 8 US Patents and dozens of patents pending:

<u>Method for Converting Natural Gas to Liquid Hydrocarbons</u>	Patent Number:6,130,260
<u>Method for Converting Natural Gas to Liquid Hydrocarbons</u>	Patent Number:6,323,247
<u>Method for Converting Methane-Containing Gaseous Hydrocarbon Mixtures to Liquid Hydrocarbons</u>	Patent Number:6,433,235
<u>Method for Converting Natural Gas to Liquid Hydrocarbons</u>	Patent Number:6,602,920
<u>Process for Liquid Phase Hydrogenation</u>	Patent Number:7,045,670
<u>Method for Converting Natural Gas to Olefins</u>	Patent Number:7,119,240
<u>Process for Conversion of Natural Gas to Hydrocarbon Liquids</u>	Patent Number:7,183,451
<u>Process for Conversion of Natural Gas to Ethylene</u>	Patent Number:7,208,647
<u>High Temperature Hydrocarbon Cracking</u>	Patent Number:7,250,449
<u>Process for Liquid Phase Hydrogenation</u>	Patent Number:7,408,091

Clean Burning Gasoline !

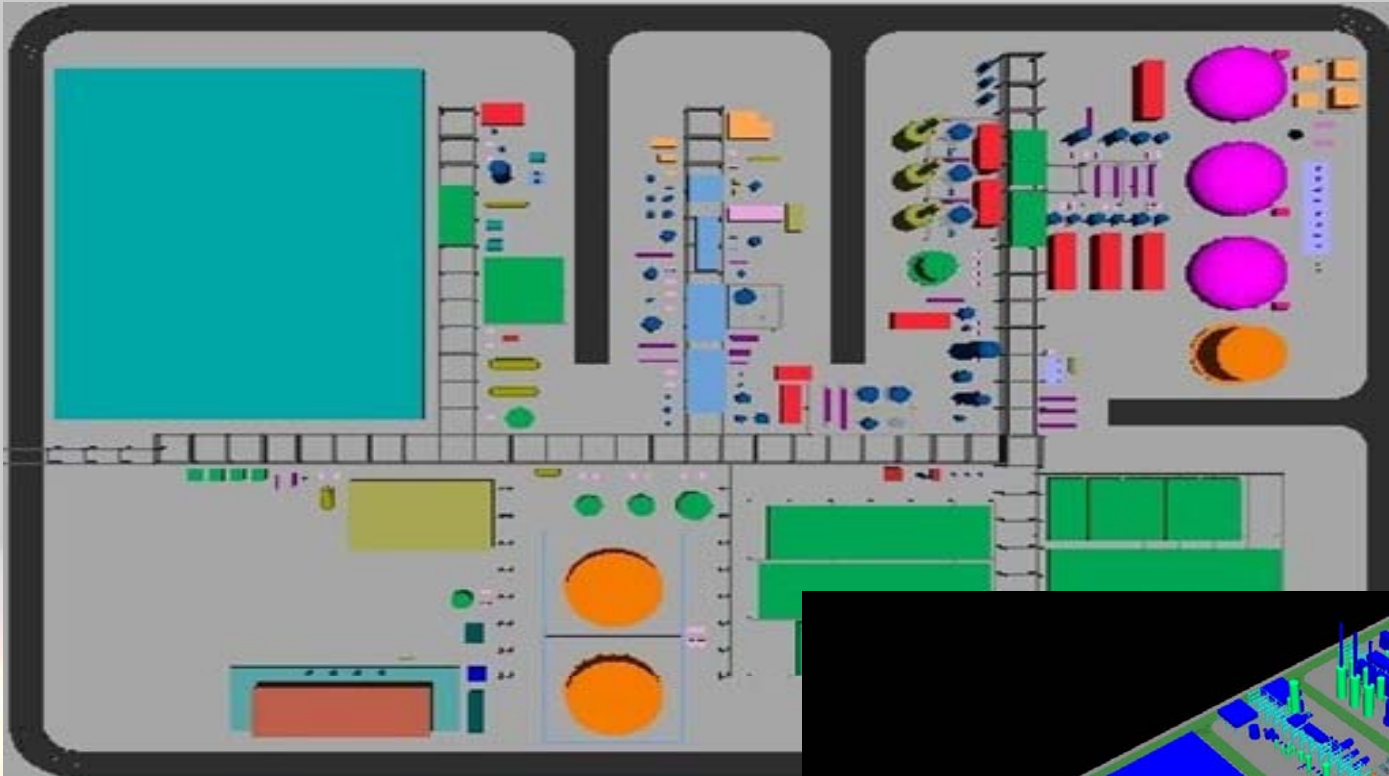
(95 to 105 octane)



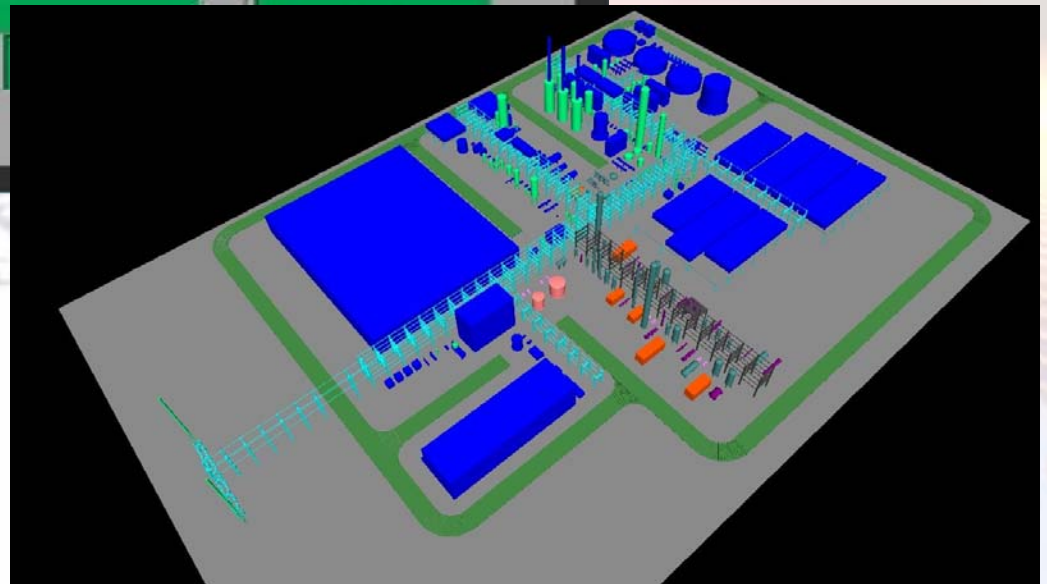
Plant size and footprint is small
(275 million litres/year GTL is 100m X 200m)

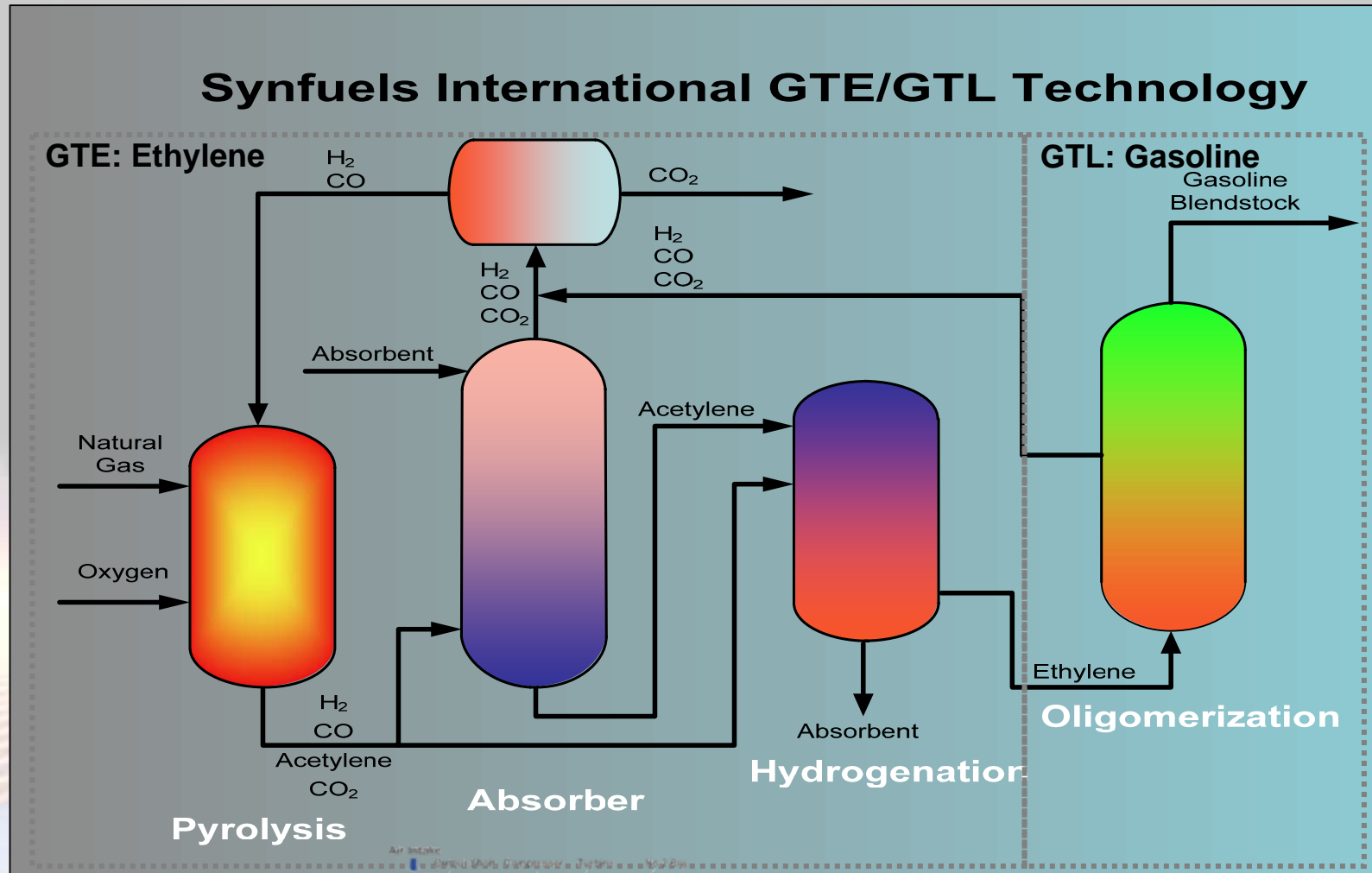
Dr. Joel Cantrell fueling the Synfuels Saturn auto

50 MMSCFD Plant Design



100m
X
200m





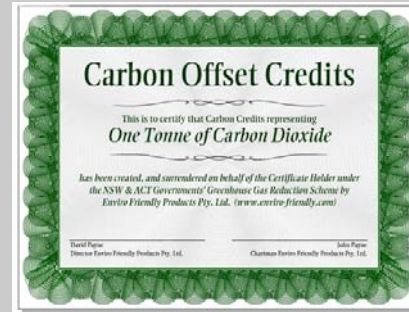
Synfuels Technology Earns Carbon Credits:

Analysis:

Andre Mech of MECH & Associates was engaged to analyze the Synfuels Technology for greenhouse gas emission reduction. Mr. Mech is well respected in the industry and is frequently engaged by the European Commission.

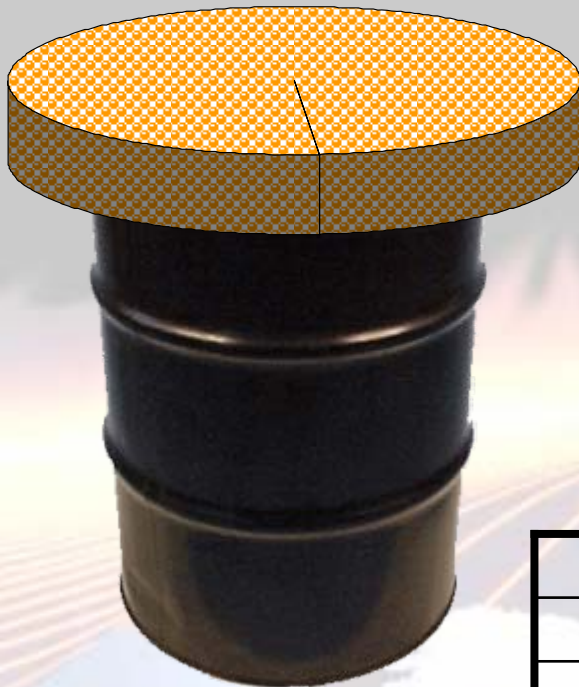
Findings:

Synfuels reduces GHG in every configuration
vs. Re-injection
vs. Flaring
vs. Venting



Great Product, No By-product

☒ Synfuels Petrol 100%

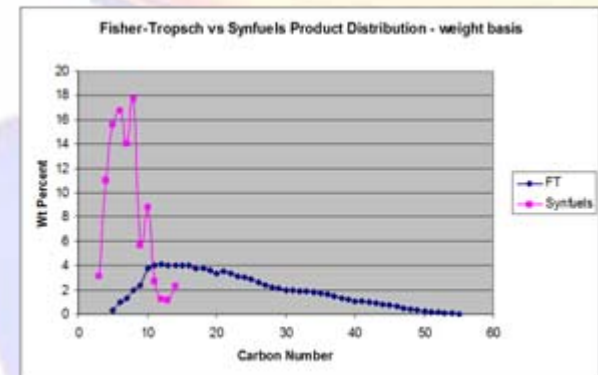


Synfuels Product Properties

Specific Gravity	0.7599 (Water=1)
°API Gravity	54.71 @ 60°F
Molecular Weight	100.422
Weight	6.33 Lbs/Gal
Gross Heating Value	124190 BTU/CF

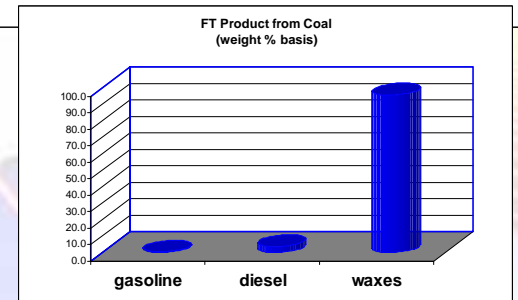
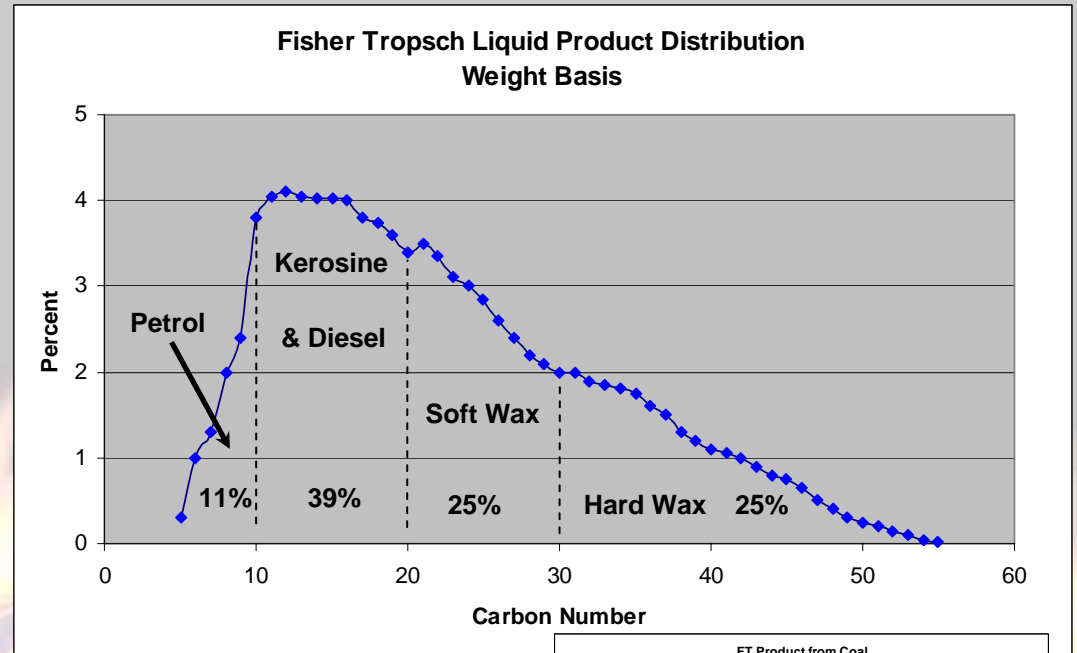
Synfuels Product Composition & Distribution

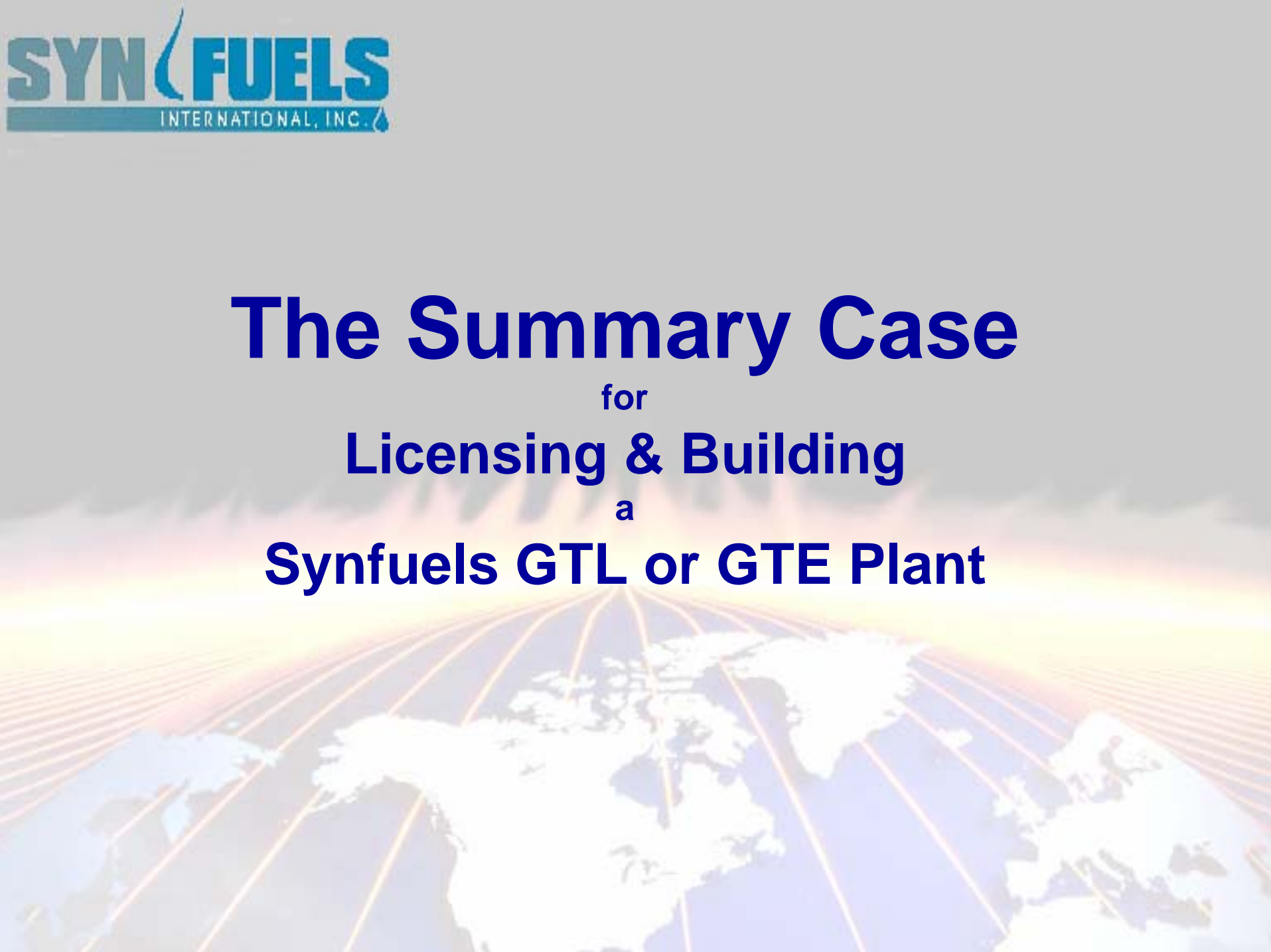
	vol%
Paraffins	12
Iso-paraffins	35.9
Olefins	1
Naphthenes	9.8
Aromatics	38.5



Fischer-Tropsch Product Yield is Much Lower than Synfuels

- Hard Wax 25%
- Soft Wax 25%
- Gasoil 39%
- Petrol 11%



The background of the slide is a stylized world map. The map is rendered in white and light blue, showing the continents. Overlaid on the map are numerous glowing orange and yellow lines that radiate from the center of the map towards the edges, creating a sense of global connectivity and energy. The overall color palette is dominated by these warm, glowing tones.

The Summary Case
for
Licensing & Building
a
Synfuels GTL or GTE Plant

Strong Investment Rates of Return

- ✓ **Plants are efficient & can generate all power requirements.**
- ✓ **Profits are very strong.**
- ✓ **Scaling to demand is simple:**
 - The Synfuels facilities can be scaled on an increasing efficiency curve of .70
- ✓ **Plant delivery in under 24 months.**
- ✓ **A true energy solution for the world today.**

TEXAS A&M UNIVERSITY TEAM

The following individuals are the inventors of the gas-to-liquid process developed by Synfuels International and are listed as such on the patent applications:

Kenneth R. Hall, Ph.D., P.E., Past Jack E. & Frances Brown Chair and Chemical Engineering Department Head at Texas A&M University. Currently professor and associate director of TEES (Texas Engineering Experimental Station). Dr. Hall is one of the inventors of the gas-to-liquids technology behind the Synfuels' process. Dr. Hall was the motivating force which enabled Texas A&M and Synfuels to join efforts to research, develop and implement the GTL technology.

Rayford G. Anthony, Ph.D., P.E., is the C.D. Holland Professor at Texas A&M University and is one of the inventors of the Synfuels GTL process.

Aydin Akgerman, Ph.D., P.E., (deceased 12/03), was the Chevron II Professor and Director of the Kinetics, Catalysis and Reaction Engineering Center at Texas A&M University. Dr. Akgerman was one of the inventors of the Synfuels GTL process.

Philip T. Eubank, Ph.D., P.E., is the Joe M. Nesbitt Professor at Texas A&M University and is one of the inventors of the Synfuels GTL process.

Jerry A. Bullin, Ph.D., P.E., is a Professor Emeritus at Texas A&M University and is one of the inventors of the Synfuels GTL process. Dr. Bullin is also the President of Bryan Research & Engineering, Inc.

Stephen McGovern, Ph.D., P.E., is under contract to work with Synfuels on the final conversion step of the Synfuels process. Dr. McGovern graduated Drexel University with a BS in Chemical Engineering and received his Ph.D. in Chemical Engineering at Princeton University. Dr. McGovern has spent 27 years working for Mobil and much of his experience is directly related to the technology to be utilized in the final conversion step. Dr. McGovern holds 16 patents and has written 13 articles about this area of expertise.

International Liaison

Oliver "Buck" Revell, is International Liaison to Synfuels International. Mr. Revell is a former Deputy Director of the FBI and is President of Revell Group International, a global consulting firm. Mr. Revell is instrumental in networking with individuals, businesses and governments around the world in a marketing and licensing position for Synfuels.

The Plant Engineering Team

ENGINEERING SERVICES

Dr. Marvin M. Johnson, Research Fellow, National Academy of Engineering

Dr. Johnson is one of the most respected Chemical Engineers of the last century. He spent his career primarily at Phillips Petroleum Company and is credited with numerous important patents including applications of catalysis in petroleum refining, particularly the discovery of metals passivation technology for catalytic cracking.

Dr. Marvin Johnson is a member of the National Academy of Engineering; a recipient of the National Medal of Technology; winner of the IRI Achievement Award; the American Society of Curate Inventors' Distinguished Corporate Inventor Award; the Phillips Distinguished Inventor Award; the American Chemical Society Oklahoma Chemist Award; the American Chemical Society Southwest Region Award for Chemical Research; the Oklahoma Bar Association Inventor of the Year Award; the IR-100 Award for PROP oil recycling along with Drs. Nowack and Tabler, and twice awarded by the Oklahoma Society of Professional Engineers with the Outstanding Engineer of the Year award. He was inducted into the OSU Engineering Hall of Fame and given the "Hero" award by the American Chemical Society.

Dr. Johnson's areas of expertise include kinetics and catalysts, reactor design and refining processes and products. He is a member of the ACS, a Fellow of the AIChE and a member of Sigma Xi. He is responsible for a number of catalysts and processes in use at Conoco Phillips and in the industry. He has over 225 U.S. patents. Of these patents, more than half relate to hydrogenation processes and catalysts. Dr. Johnson is also the co-inventor of two international patents for Synfuels' liquid-phase hydrogenation process and catalyst.

Bryan Research & Engineering, Inc. was awarded the initial engineering contract to lay the groundwork for the research and ongoing development of the Synfuels GTL technology. With their close proximity to Texas A&M University, they continue to provide engineering expertise on the project. Bryan Research & Engineering (BR&E) is a widely recognized privately-owned provider of software and engineering solutions to the oil, gas, refining and chemical industries. BR&E has combined company research and development in process simulation with state of the art computerized engineering technology.

Dr. Joel Cantrell is a development engineer for Bryan Research & Engineering, Inc. Dr. Cantrell also acts as an independent consultant hired by Synfuels to head the coordination of efforts with Texas A&M on the development of the GTL technology and supervises the operations at the demonstration facility. Dr. Cantrell received his B.S. in chemical engineering at Texas A&M University in 1991 and his Ph.D. in chemical engineering from Lehigh University in 1996. Dr. Cantrell has designed and implemented software to evaluate the dynamics of natural gas plant economics and developed advanced multivariable process control software. Dr. Cantrell has taught oil, natural gas, and electric power courses and has authored several papers concerning various aspects of the oil and gas industry. Dr. Cantrell is the inventor of one of the GTL patents utilized by the Synfuels technology.

Commercialized by Synfuels

Discovered at Texas A & M University



Mr. Ben Weber, BA
Founder and Chairman



Mr. Thomas Rolfe B.Sc MBA
President

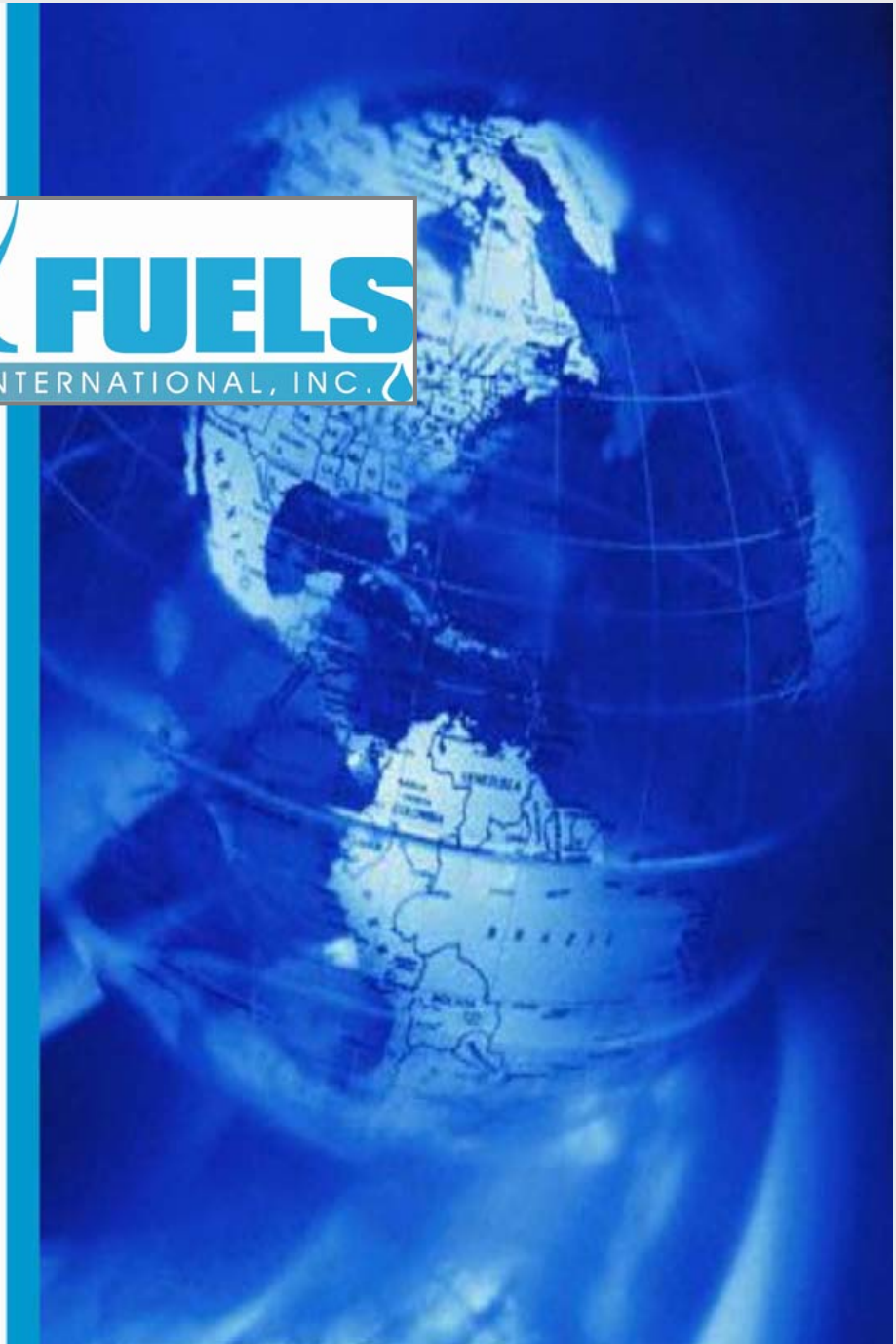


Mr. Charles Matar B.S. M.A.
Vice President, MENA

Dr. Edward Peterson, Ph.D., P.E.
Chief Engineer

Dr. Kenneth Hall, Ph.D M.S. B.S.
Past Head of Chemical Engineering, Texas A and M
University

Prof. Jerry Bullin
Professor, Texas A and M



Synfuels GTL/GTE Technology

- Represents a tool the World Bank GGFRP has never had.
- In field GTL has never before been available
 - to reduce flaring
 - to create jobs
 - at affordable prices

