COOK INLET AREA IGCC/GTL & COGTL

ANGTL'S PERSPECTIVE



ANGTL DRIVEN BY

DESIRE TO

- DEMONSTRATE GTL PROCESS IS VIABLE IN ALASKA
- PROVIDE FOR FUTURE GTL DEVELOPMENT
- ADDRESS MULTIPLE ENERGY NEEDS
- CREATE NEW INDUSTRIES FOR ALASKAN's

US ENERGY POLICY ACT OF 1992

- REDUCE ENVIRONMENTAL EMISSIONS
- REDUCE US DEPENDENCE ON FOREIGN CRUDE OIL
- NATIONAL ENERGY SECURITY ACT OF 2001

COOK INLET AREA

FUEL SOURCES

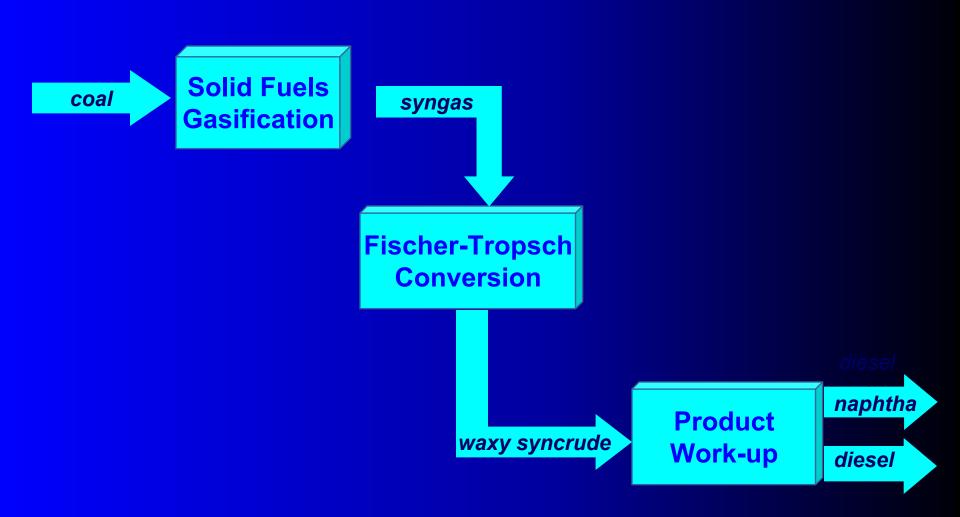
NATURAL GAS

COAL - GASIFICATION

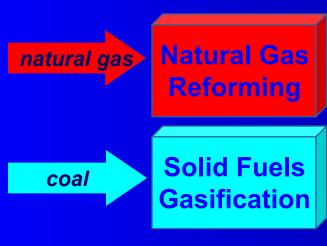
SYNTHETIC PRODUCTS

THE PROCESS

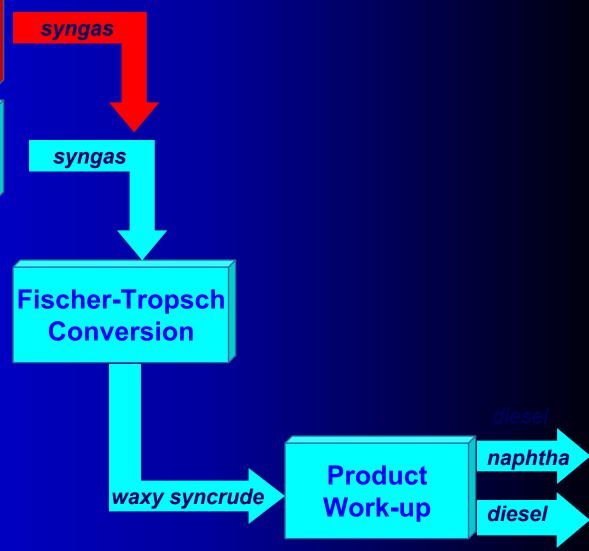
GAS TO LIQUID PROCESS



GAS TO LIQUID PROCESS



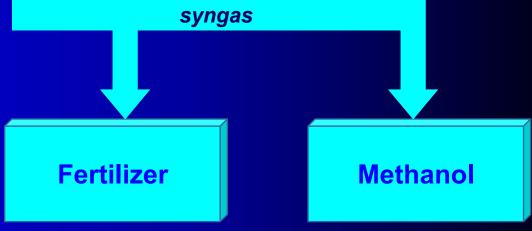
- All steps are commercially proven
- Natural gas reforming and product work-up through conventional technology
- Sasol & others have reduced costs and improved efficiency by successful integration



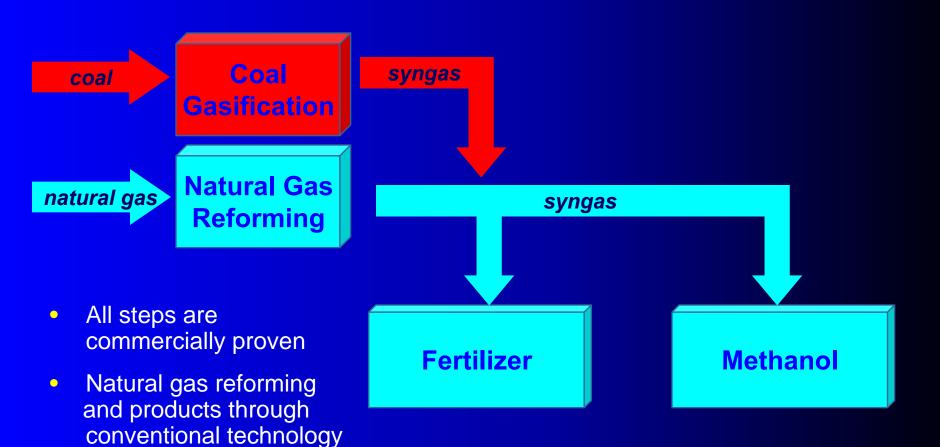
SIMILAR GTL PROCESSES



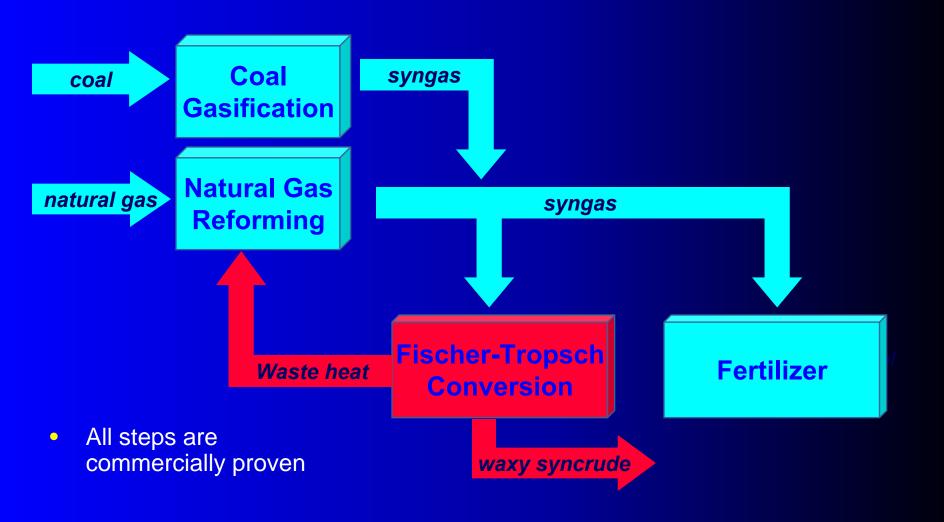
- All steps are commercially proven
- Natural gas reforming and products through conventional technology



SIMILAR GTL PROCESSES



FERTILIZER & GTL PROCESS



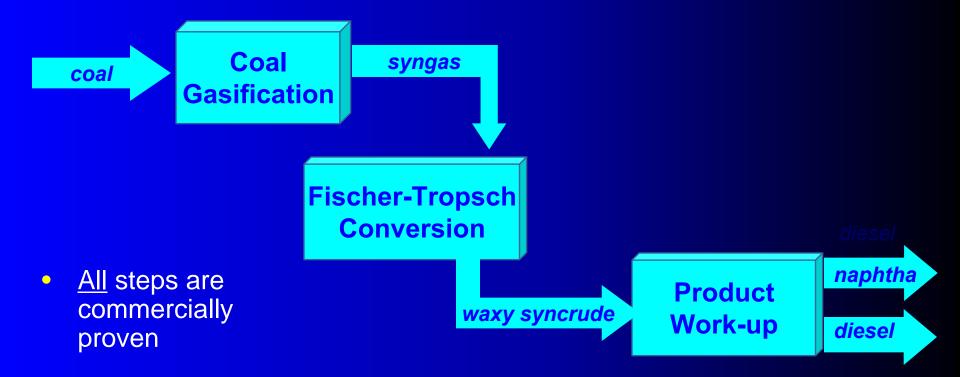
IGCC PROCESS

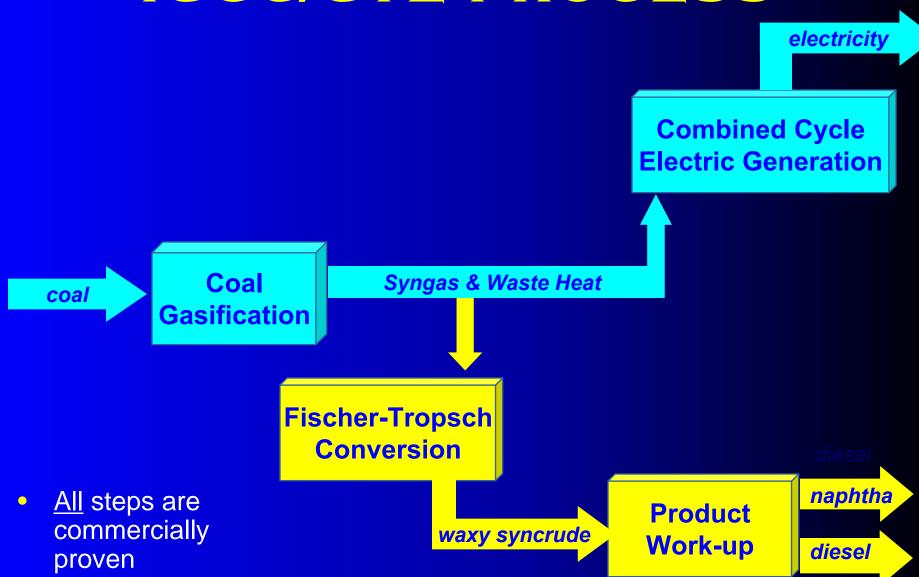


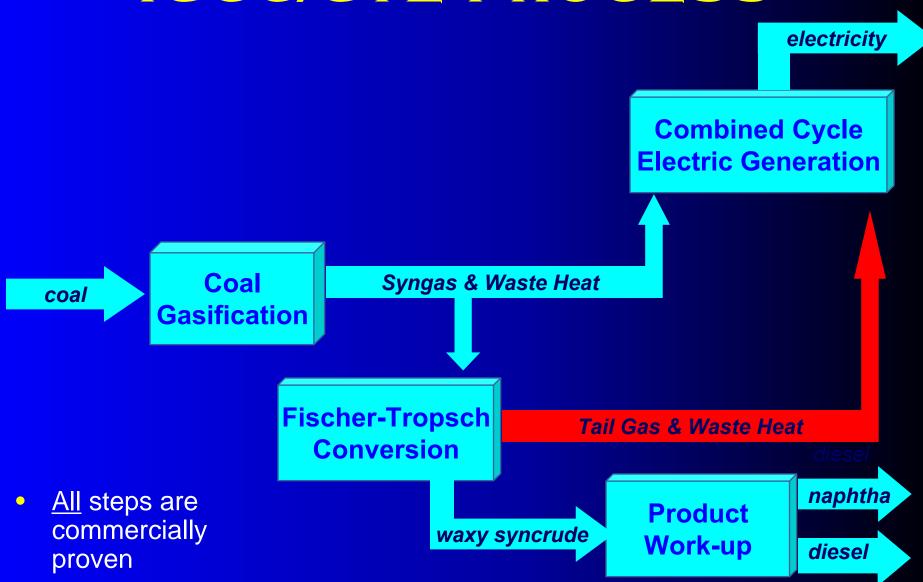
diesel

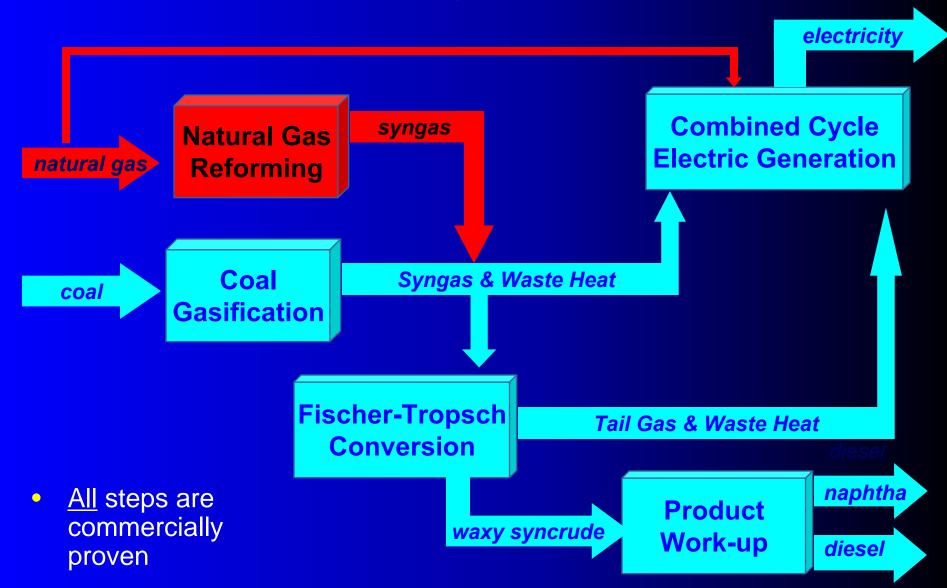
 All steps are commercially proven

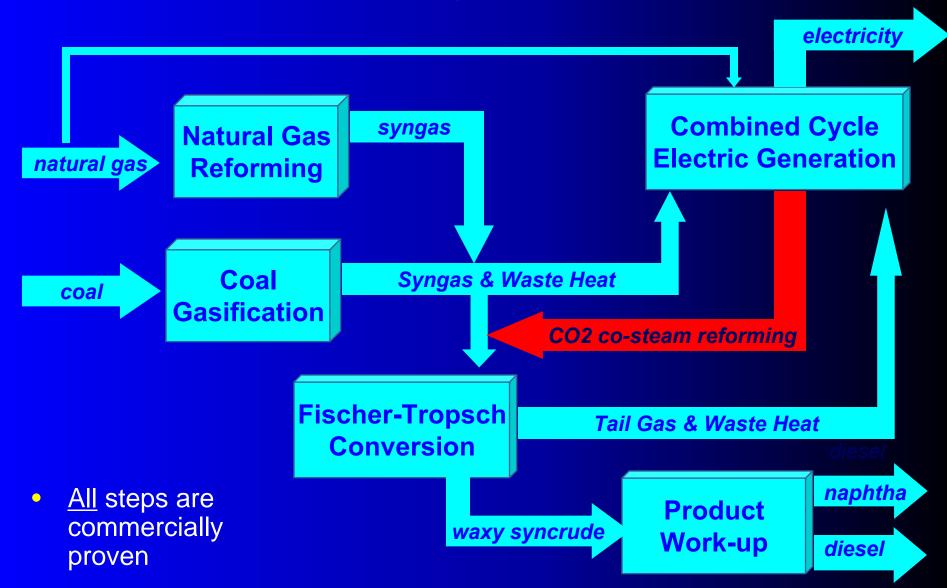
GTL PROCESS

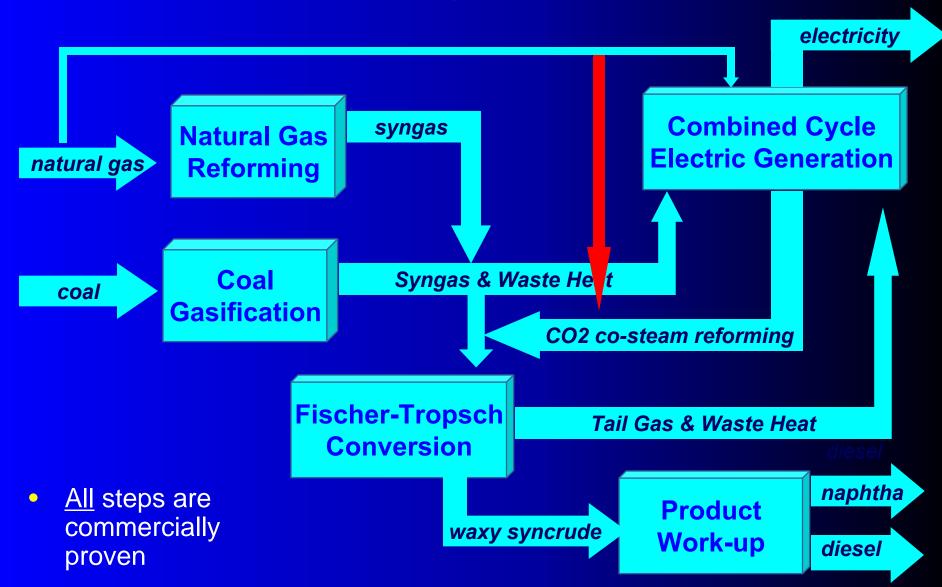












BENEFIT OF IGCC/GTL PROJECT FOR COOK INLET

- COAL GASIFICATION / GTL / COMBINED CYCLE ELECTRIC GENERATION – MOST EFFICENT USE OF COOK INLET ENERGY RESOURCES
- SYNGAS FROM COAL GASIFICATION PROVIDES SECOND FUEL TO GENERATE ELECTRICTY FOR 80% OF ALASKAN'S

BENEFIT OF A COOK INLET IGCC/GTL PROJECT FOR ALASKAN'S

- COAL GASIFICATION / GTL PROVIDES ALASKA WITH SYNTHETIC DIESEL THAT EXCEEDS EPA DIESEL STANDARDS FOR 2010 AND BEYOND
- ALASKA CAN LEAD THE US IN THE CLEAN GENERATION OF ELECTRICTY AND SYNTHETIC FUELS FROM BOTH COAL AND NATURAL GAS

COOK INLET GTL'S WILL REDUCE GREEN HOUSE GASES IN ALASKA

- Virtually "zero" sulfur diesel from Cook Inlet GTL's can reduce motor vehicle emissions by 40 % or more.
- Waste heat recovered from the GTL process can supplement gas fired generation which will reduce demand on the area's limited natural gas resources.

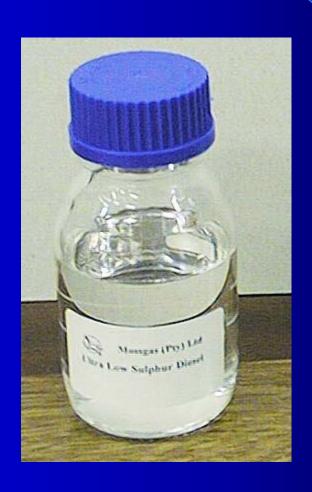
GTL'S IN ALASKA WILL RESULT IN THOUSANDS OF JOBS BOTH IN ALASKA AND THE US

 Each IGCC/GTL plant will employ thousands during construction will provide hundreds of permanent operating jobs.

ENVIRONMENTAL BENEFITS OF GTL'S

- EPA APPROVED AS NON TOXIC BIODEGRADABLE
- F-T DIESEL HAS < 1 PPM SULFUR, <0.5 % AROMATICS
- REDUCES EXHAUST PIPE PARTICULATE MATTER
- REDUCES NOx

SYNTHETIC DIESEL CLEAR AND VIRTUALLY ODORLESS



• ANGTL IS READY TO START TODAY

- IGCC/GTL technology exists TODAY
- Both processes commercial
- Several very successful IGCC plants in operation
- IGCC costs comparable with present day natural gas CC projects

SUMMARY

A COOK INLET IGCC/GTL PROJECT WILL:

- REDUCE COOK INLET DEPENDENCE ON NATURAL GAS
- IMPROVE AREA ELECTRIC GENERATION EFFICENCY
- MEET EPA DIESEL STANDARDS FOR 2007 AND BEYOND
- PROVIDE THE BEGINNING OF VALUE ADDED
 INDUSTRIES IN ALASKA PETROCHEMICAL
- PROVIDE FOR FUTURE GTL PLANTS
 TO BE BUILT IN ALASKA

CONCLUSION

- CLEAN ELECTRICITY & ULTRA CLEAN DIESEL FROM ALASKA'S COOK INLET
 - ELECTRICITY & GTL's FROM COAL and NATURAL GAS
 - BIODEGRADABLE ZERO SULFUR ZERO AROMATIC
 - F-T SYNTHETIC DIESEL, THE FUEL OF THE FUTURE AVAILABLE TODAY

CONCLUSION

- CAN THERE BE A BETTER SOLUTION
 - FOR THE PEOPLE OF ALASKA & AMERICA
 - FOR OUR CHILDREN THE REAL FUTURE OF OUR COUNTRY
- WE HAVE SEEN THE FUTURE

 IT LOOKS A LOT CLEANER!