



**ICAO AVIATION AND SUSTAINABLE
ALTERNATIVE FUELS
WORKSHOP**



ICAO Headquarters, Montréal, Canada

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London biojet project

Andy Kershaw





BA & Solena biojet project



Carbon Reclamation and
Processing Plant...

Green Sky





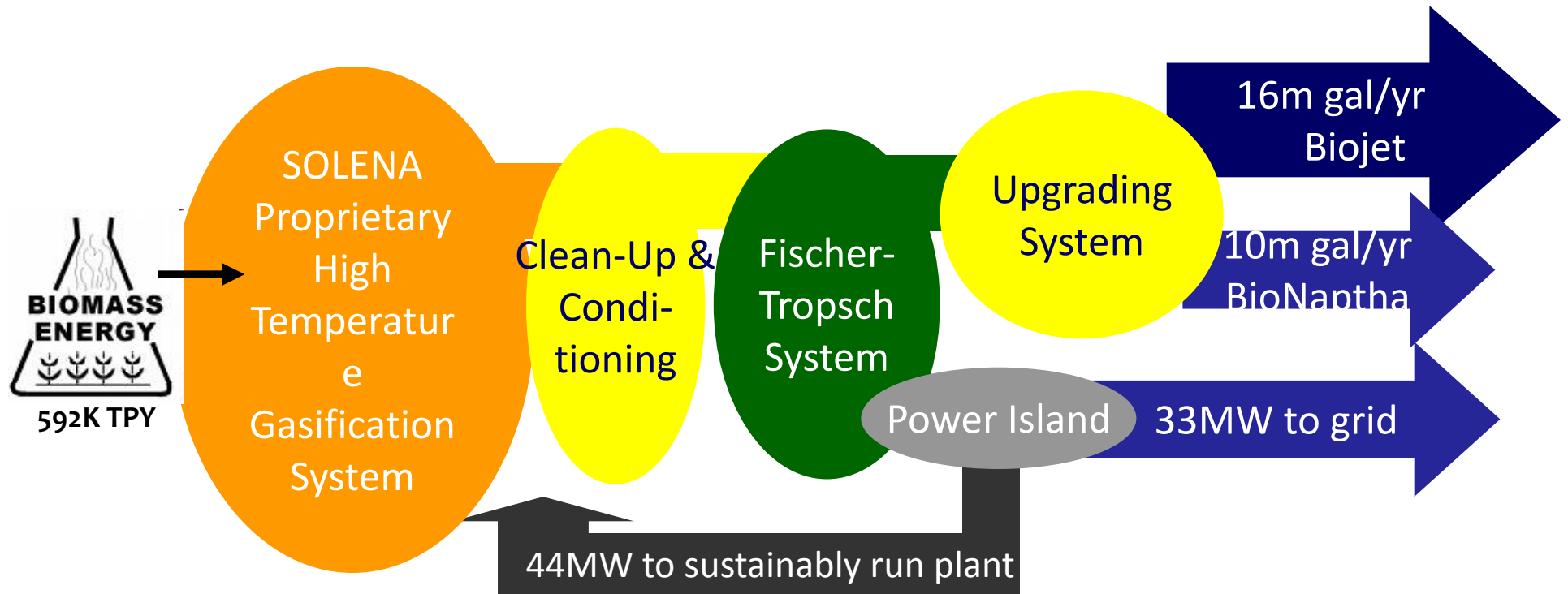
Overview



- Europe's first advanced technology waste biomass to biojet fuel plant
- Input: 592,000t waste
- Output: 42,000t renewable biojet fuel
- Gasification and Fischer Tropsch technology
- Up to 95% reduction in CO₂ emissions
- Sites under consideration east of London



Process





Economics



- Plant investment required ~\$350m
- Business case supported by carbon pricing (EU ETS) and landfill taxes (up to \$100/t)
- Creation of up to 1,200 jobs
- BA letter of intent to purchase all the fuel produced by the plant



Climate benefits



- Lifecycle greenhouse gas savings of up to 95% in production & use of biojet
- 145,000 tonnes p.a. CO₂ reduced
- Reduces methane from landfill
- No competition for land, water, no ILUC risk
- Also produces renewable naphtha
- Steam and biosyngas used to generate green electricity



Air quality benefits



- Produces biojet that burns cleaner than fossil kerosene
- Zero sulphur – no SO_x improves local air quality
- No soot particulates/contaminants
- Delivery trucks will run on green fuel



Clean burning





Local community benefit



- Employs 1000 staff during construction
- Employs 200 staff during continuous operations
- Clean renewable alternative to landfill, avoids landfill tax, reduces disposal costs
- Plant produces no toxic emissions
- Small land footprint and aesthetic design



Next steps



- Final site selection of site pending (Proximity to waste supply, supply infrastructure)
- Permitting and planning
- Need long term government support
- Roundtable on sustainable biofuels certification



Thank you

