Partnerships and integrated solutions

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Fast facts

- 4.9 million people (20% of Australia)
- 1.8 million km²
- AUD$327 billion Gross State Product (comparable to Louisiana)
Queensland: a global exporter of energy

Current:
- **Coal** exports (metallurgical and thermal): 207 million tonnes, A$34.6 billion (2016-17)
- **LNG** exports: 19 million tonnes (2016-17)

Emerging / future:
- biomass pellets, tallow, ethanol, renewable fuels, hydrogen
Biomass partnerships

- Agave tequila trial in Far North Queensland
- 4-5 years to maturity
- High sugar yields (dry grown)
- Sugar for fuels
- Fibre for power generation
- Targeting 4000Ha, 3 million plants/year
- Queensland Government funded
Biomass partnerships

Burdekin Renewable Fuels – 1MT of sugar cane tops and trash for bioenergy markets
Queensland Government funded
10 years of aviation partnerships

Flight path to Sustainable Aviation
Sustainable feedstocks study
2018 - Virgin biofuel trial
Virgin biofuel trial

- ATJ-SPK refuelling via JUHI at Brisbane International Airport
- Shipment 1: September 2018
- Shipment 2 - 4: thru to mid-2019
Lessons learned

• Collaboration is #1!!
• Funding is #2
• Go global for advice
• Invest in stakeholder relationships
• Be patient, persistence pays off
• Create an environment for generating ideas
Stimulating growth with global partnerships
Queensland’s environmental credentials

Queensland Government’s three key climate commitments

1. POWERING QUEENSLAND WITH 50% RENEWABLE ENERGY BY 2030

2. DOING OUR FAIR SHARE IN THE GLOBAL EFFORT TO ARREST DAMAGING CLIMATE CHANGE BY ACHIEVING ZERO NET EMISSIONS BY 2050

3. DEMONSTRATING OUR COMMITMENT TO REDUCING CARBON POLLUTION BY SETTING AN INTERIM EMISSIONS REDUCTION TARGET OF AT LEAST 30% BELOW 2005 LEVELS BY 2030
Future partnerships in ‘resource recovery’ from waste

- **A$100 million fund** over three years
- Supports local governments, waste recovery businesses, not-for-profits and consortia looking to employ proven technologies along the entire supply chain.
- Three streams: Resource recovery **grants** fund, Resources recovery **project** fund, and Resource recovery **investment pipeline** fund.
Future partnerships needed to unlock sustainable aviation fuel deployment and production in Australia

- with airlines
- with airports
- with road transport fuel off-takers
- with feedstock suppliers
- with investors
- with the passenger….
Thank you!
See you next year in Queensland at the IATA Slot Conference

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Brisbane Convention and Exhibition Centre

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