



CarbonBind®

Conversations

EPIISODE 3

Exploring Case Studies in Carbon Savings

with
Trent Patten & Tim Vallender



Innovation. Sustainability. Performance.



Trafigura

CarbonBind[®]
Conversations

Exploring Low Carbon Asphalt Case Studies with Austek

Going further
— for better performing roads

Format

- Introduction to Puma Bitumen, CarbonBind and other low carbon technologies
- Introduction to Austek Roads'
- Austek Roads' Case studies with CarbonBind
- Open Q/A with Audience

Trafigura Group at a glance: a global leader in the commodities industry

Oil and petroleum products	Metals, minerals and bulk commodities	Gas and power	Renewables and hydrogen	Carbon management	Shipping and chartering
					
Crude oil Refined products	Non-ferrous concentrates and refined metals Bulk minerals	Natural gas and LNG Power trading	Renewable power Low-carbon hydrogen investments Clean energy technologies	Voluntary markets Compliance markets	Wet freight Dry freight

Supported by investments and operating companies

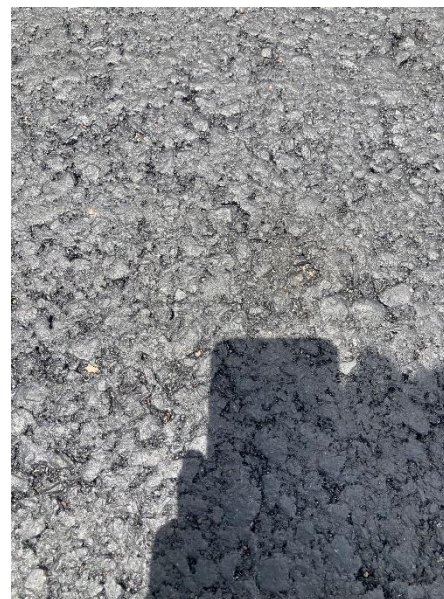
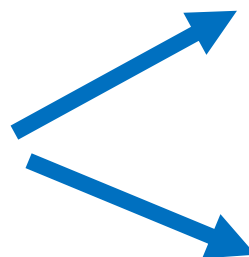
							
Energy infrastructure Storage Multimodal logistics	Marine fuel supplies	Large-scale green hydrogen eco-systems	Critical minerals processing and mining	Downstream fuel, lubricant and bitumen supplies	Onshore wind, solar PV and power storage projects	Investments in real assets and private equity funds	Railway concession from the African copper belt to the port of Lobito, Angola

The Potential of Bio Material for Our Industry

CarbonBind Technology



Modified biomaterial



CO₂ is locked forever
within the road



Puma Bitumen Sustainable Technologies

CarbonBind



More Durable Binders



Crumb Rubber



Warm Mix Additives



Austek Roads is a business specialising in asphalt repairs, road maintenance and rehabilitation. Operating in QLD, NSW/ACT & VIC

Capabilities:

- **Asphalt**
- **Spray Seal**
- **Road Preservation**
- **Profiling**
- **Civil Works**
- **Asphalt Production**



Austek Projects with Puma – CarbonBind A15E



Austek Projects with Puma – CarbonBind C320



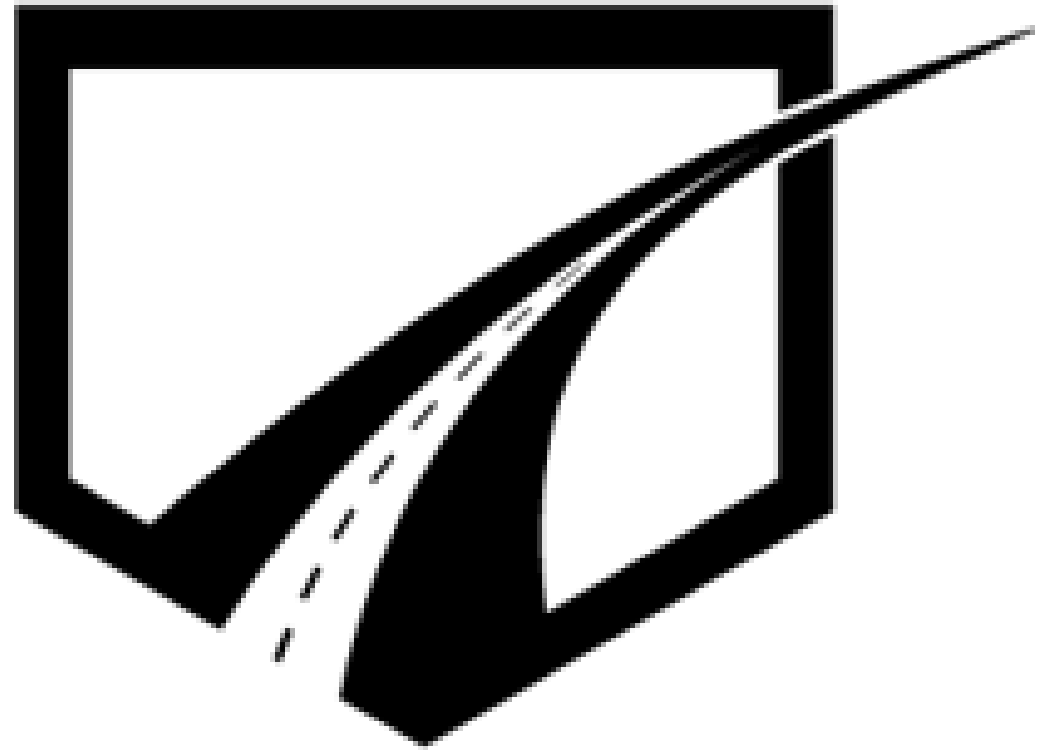
Austek Projects with Puma – CarbonBind M1000



Q&A Session

Post your questions in the **Questions** Tab

Any unanswered questions will be responded personally





Trafigura

www.pumabitumen.com
<https://austekroads.com.au/>



Thank you

WE LOOK FORWARD TO GOING FURTHER WITH YOU.

Dr Erik Denneman, CPEng
Global Technical Manager
Erik.Denneman@pumaenergy.com

Michael He
Senior Product Engineer

Michael.he@pumaenergy.com

Tim Vallender
National Manufacturing Manager

tim.vallender@austekroads.com.au

Trent Patten
Laboratory Technical Manager

trent.patten@austekroads.com.au