

DAY ONE

 **Thursday 17 October 2024**

Adelaide Zoo Sanctuary, Frome Road, Adelaide

Session 1	Opening		
	9:00	Introductions and Session Chair	Jenny Selway, CEO, HILT CRC
	9:10	Welcome to Country	
	9:20	Opening address	Susan Jeanes, Chair, HILT CRC
	9:25	HILT CRC achievements and overview	Jenny Selway, CEO, HILT CRC
	9:30	SA Government perspective	The Hon. Tom Koutsantonis MP, Minister for Energy and Mining
	9:45	The Australian Renewable Energy Agency's role in the decarbonisation of heavy industry	Tanya Hodgson, Business Development and Transactions Director, ARENA
	10:05	Panel discussion chaired by Susan Jeanes – What's next: enablers and barriers to deliver heavy industry decarbonisation	Prof. Gus Nathan (HILT CRC and Uni of Adelaide), Brian McDonald (Roy Hill), Tanya Hodgson (ARENA)
10:30 ☕ Morning tea/coffee			
Session 2	Transforming iron ore to green iron and steel – key research project update		
	11:00	Session introduction – industry chair	TBC
	11:05	RP1.01: The upgrading of iron ore for DRI production using products from seawater RO brines	Dr Lina Hockaday (Curtin University)
	11:25	RP1.012: Prevention of sticking in H2 fluidised bed DRI production	Assoc. Prof. Tom Honeyands (University of Newcastle)
	11:40	RP1.009: Testing of Australian iron ores in a hydrogen direct flash smelting process	Prof. Geoff Brooks (Swinburne University)
	11:55	PhD presentations	
	12:10	Industry reflection and Q&A	TBC
12:30 🍴 Lunch			
Session 3	Transforming bauxite to green alumina – key research project update		
	13:30	Session introduction – industry chair	TBC, South32
	13:35	Alumina decarb including ALUMINext projects (RP1.002, RP1.007, RP1.013)	Dr Woei Saw (University of Adelaide)
	13:55	Thermal energy storage for industrial applications	Assoc. Prof. Joe Coventry (ANU)
	14:15	RP2.011 Thermal energy recovery using high-temperature heat pump	Dr Bo Yang (University of Adelaide)
	14:25	PhD presentations	
14:40	Industry reflection and Q&A	TBC, South32	
15:00 ☕ Afternoon tea/coffee			
Session 4	15:30	Green Metals RD&D Facilities Breakout Discussion Session: Research, development and demonstration (RD&D) facilities to accelerate decarbonisation and green metals production	
18:00 🍽️ Conference dinner			
Chateau Apollo 74 Frome Road, Adelaide		Guest speaker: The Hon. Susan Close MP, Deputy Premier of SA; Minister for Industry, Innovation and Science; Minister for Climate, Environment and Water	

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Facilitating heavy industry transformation – key research project update			
Session 5	9:00	Session introduction – industry chair	Saindhav Tamhane, SA Department for Energy and Mining
	9:05	RP3.004: Intermediate product exports for Australia-China green steel	Dr Jorrit Gossens (ANU)
	9:25	RP3.005: Analysis of market, cost and locational factors for green iron and steel in Australia	Prof. Frank Jotzo (ANU)
	9:45	Certification and verification to enable a successful LCT for heavy industry (aka Green Certification)	Assoc. Prof. Emma Aisbett (ANU)
	10:00	PhD presentations	
	10:15	Industry reflection and Q&A	
10:30 ☕ Morning tea/coffee			
Energy technology for low-carbon heavy industry – key research project update			
Session 6	11:00	Session introduction – industry chair	TBC
	11:05	RP2.006: Hydrogen supply within HILT regional hubs; RP2.013 Energy infrastructure	Dr Tara Hosseini (CSIRO)
	11:25	RP2.007: Feasibility combustion study to identify challenges and opportunities for hydrogen into iron and cement sectors	Dr Alfonso Chinnici (University of Adelaide)
	11:45	RP2.010: Utilisation of RDF in industrial processes: understanding the value proposition, risks & supply chains; RP2.012 Opportunities for bioenergy in Australian heavy industry	TBC, CSIRO
	12:00	PhD presentations	
	12:15	Industry reflection and Q&A	
12:30 🍴 Lunch			
Session 7	13:30	Facilitating Decarbonisation Technology Breakout Discussion Session: Energy technology and policy developments to accelerate decarbonisation and green metals production	
15:00 ☕ Afternoon tea/coffee			
Realising HILT's 10-year vision and beyond to 2050			
Session 8	15:30	HILT's 10-year vision, pathway to 2050 and role	Prof. Gus Nathan
	15:40	Industry perspective – 2050 decarbonisation pathway priorities	TBC, South32
	15:50	Industry perspective – Research facilities to support decarbonisation priorities	TBC, CSIRO
	16:00	International perspective – Research facilities to support decarbonisation priorities	Paul Cobden, Swerim
	16:10	Panel discussion	
	16:50	Reflection – what we have learnt?	Prof. Gus Nathan
	16:55	Closing and thanks	Jenny Selway, CEO, HILT
17:00 🍷 Networking drinks: Adelaide Zoo Sanctuary, Frome Road, Adelaide			