



TOTAL RESEARCH AND DEVELOPMENT INVESTMENT

 Key Focus Area 5 (Milling efficiency and technology)				
Investigation into modifying pan boiling techniques to improve sugar quality	2015/013	QUT	David Moller	1/06/2020
Online analysis systems to measure the available nutrients in mill mud	2016/019	SRA	Steve Staunton	01/06/2020
Reducing boiler maintenance costs and deferring capital expenditure through improved technology	2016/020	QUT	Floren Plaza	01/06/2021
Evaporator Liquor Brix Sensor	2017/003	Wilmar	Robert Stobie	01/01/2019
Managing aspects of raw sugar quality in the Australian sugar industry Part II	2017/006	Griffith University	Chris Davis	01/11/2019
Investigations to mitigate the effects of juice degradation in factory evaporators on sugar recovery and quality, corrosion and effluent organic loading	2017/007	QUT	Darryn Rackemann	01/03/2022
Pan design and operational changes to suit Australian pan stages operating on low pressure vapour	2018/012	QUT	Ross Broadfoot	01/11/2021
Evaluate the performance of the falling film tube evaporator at Bingera Mill	2019/201	Bundaberg Sugar	Neil Sichter	22/05/2020
Evaluate the suitability of the fixed element crystalliser for widespread adoption in Australian sugar factories	2019/202	Sunshine Sugar	Daniel Rojo	22/05/2020
Reducing surging in shredders	2019/204	MSF Sugar	Peter Chohan	22/05/2020

 Key Focus Area 6 (Product diversification and value addition)				
A profitable future for Australian agriculture: Biorefineries for higher-value animal feeds, chemicals and fuels	2015/902	QUT	Ian O'Hara	01/04/2019
Manipulation of carbon partitioning to enhance the value of sugarcane (ARC LINKAGE UQ collaboration with SRA contribution)	2016/801	UQ (SRA contribution)	Frikkie Botha	08/12/2018
Establishing a strategic roadmap for product diversification and value addition	2018/014	Lazuli	Eris O'Brien	Completed

THE FOLLOWING PROJECTS HAVE SUBMITTED MILESTONE REPORTS TO SRA SINCE THE LAST EDITION OF MILLING MATTERS:

- Reducing boiler maintenance costs and deferring capital expenditure through improved technology
- Investigations to mitigate the effects of juice degradation in factory evaporators on sugar recovery and quality, corrosion and effluent organic loading
- Integrated standardised training for Sugar Milling Operations
- Evaluate the performance of the falling film tube evaporator at Bingera Mill
- Online analysis systems to measure the available nutrients in mill mud
- Managing aspects of raw sugar quality in the Australian industry.

THE FOLLOWING PROJECTS HAVE SUBMITTED FINAL REPORTS SINCE THE LAST EDITION OF MILLING MATTERS

- Establishing a strategic roadmap for product diversification and value addition
- Bio-refineries for higher-value animal feeds, chemicals and fuels (phase 1)
- A boiler simulator for improved operator training
- Evaluation of the Neltec Colour Q for measuring the purity of magma from C centrifugals (Small Milling Research Project (SMRP))
- Improving the impact of evaporator calandria noxious gas bleeding arrangements on evaporator rate and condensate quality at Racecourse Mill (SMRP)
- Evaporator liquid brix sensor (SMRP)
- Understanding the cause of high colour sugar - intrinsic cane colour, extraneous matter or factory practices? (SMRP)
- Activated sludge plants – optimising operations and technology (SMRP)
- Real-time harvest and transport system
- Increasing capacity to undertake cane preparation research through modelling and experimentation.