



Michael Phillips

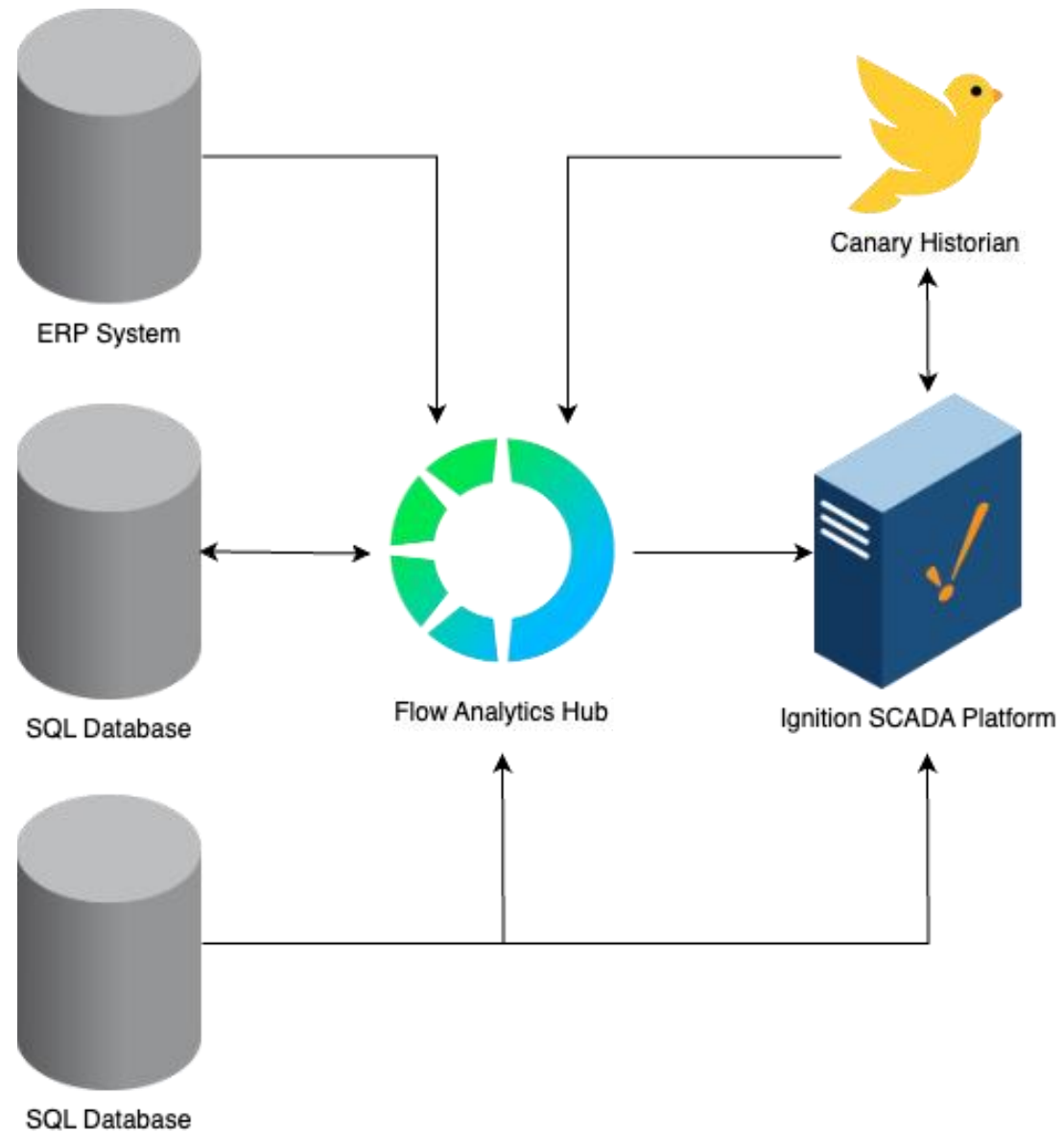
Factory Engineer
Reproplast

REPROPLAST[®]

Damian De Arruda

Business Unit Manager: Smart Manufacturing
Afrilek Automation





Architecture



Raw Materials

Shredder Loading

Material Type	Qty (kg)	Comment
Post industrial waste (PP)	3,000	+ 15 pallets of buckets
Pallets (PP)	1,000	1 Bag shredded Pallets
Post industrial waste (PP)	500	1 Bale of Brandline
HDPE Rigid	200	1 Pallet of HDPE
Post consumer		

Timestamp

Material Type

Stock Code: RVC000101

Weight

Note

Submit

Recipe & Loading Form

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DAILY SHREDDER LOADING REPORT

Report Period: 2024-10-16 06:00 to 2024-10-17 06:00

SHREDDER LOADING EVENTS

Timestamp	Material	Stock Code	Weight	Comments
2024-10-16 16:45:21	Lumps & Sweepings (PP)	RVI000103	436 kg	
2024-10-16 16:46:05	Lumps & Sweepings (PP)	RVI000103	200 kg	
2024-10-16 16:46:21	Lumps & Sweepings (PP)	RVI000103	429 kg	
2024-10-16 16:46:28	Lumps & Sweepings (PP)	RVI000103	440 kg	
2024-10-16 16:46:35	Lumps & Sweepings (PP)	RVI000103	352 kg	
2024-10-16 16:46:42	Lumps & Sweepings (PP)	RVI000103	262 kg	
2024-10-16 16:46:49	Lumps & Sweepings (PP)	RVI000103	280 kg	
2024-10-16 16:46:54	Lumps & Sweepings (PP)	RVI000103	179 kg	
2024-10-16 16:46:59	Lumps & Sweepings (PP)	RVI000103	280 kg	
2024-10-16 16:47:05	Lumps & Sweepings (PP)	RVI000103	667 kg	
2024-10-16 16:47:21	Lumps & Sweepings (PP)	RVI000103	230 kg	
2024-10-16 16:47:23	Lumps & Sweepings (PP)	RVI000103	160 kg	
2024-10-16 16:47:30	Lumps & Sweepings (PP)	RVI000103	414 kg	
2024-10-16 16:47:36	Lumps & Sweepings (PP)	RVI000103	214 kg	
2024-10-16 16:47:41	Lumps & Sweepings (PP)	RVI000103	670 kg	
2024-10-16 16:48:13	Lumps & Sweepings (PP)	RVI000103	180 kg	
2024-10-16 16:48:21	Lumps & Sweepings (PP)	RVI000103	393 kg	
2024-10-16 16:48:26	Lumps & Sweepings (PP)	RVI000103	292 kg	

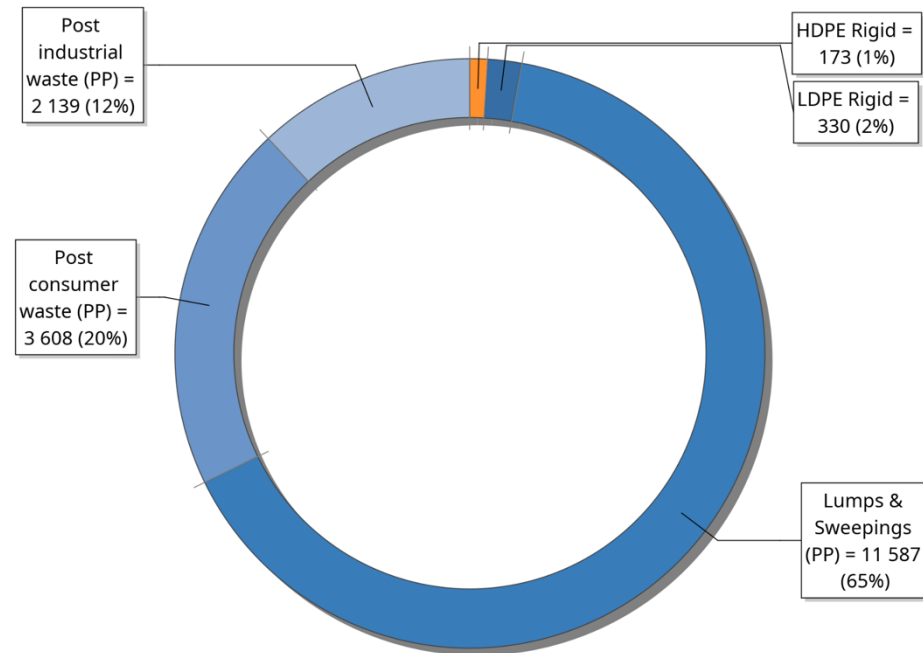
Process Report

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DAILY SHREDDER LOADING REPORT

Report Period: 2024-10-16 06:00 to 2024-10-17 06:00

SHREDDER LOADING DISTRIBUTION



Glossary

Material Name	Stock Code
Post consumer waste (PP)	RVC000101
Post industrial waste (PP)	RVI000102
Lumps & Sweepings (PP)	RVI000103
Pallets (PP)	RVI000104
HDPE Rigid	RVI000302
LDPE Rigid	RVI000201
Reprocessed RP101	RP000101
Reprocessed RP102	RP000102
Reprocessed RP103	RP000103
Reprocessed RP104	RP000104
Reprocessed Flake	RF000101

Washplant Dashboard - 2024/10/11

Current Day's Performance

Flake Produced
35662 kg



Throughput Rate
3338 kg/hr



Previous Day's Performance

Flake Produced
35662 kg



Throughput Rate
3338 kg/hr



31 Day Performance

Total Flake Produced
774385 kg



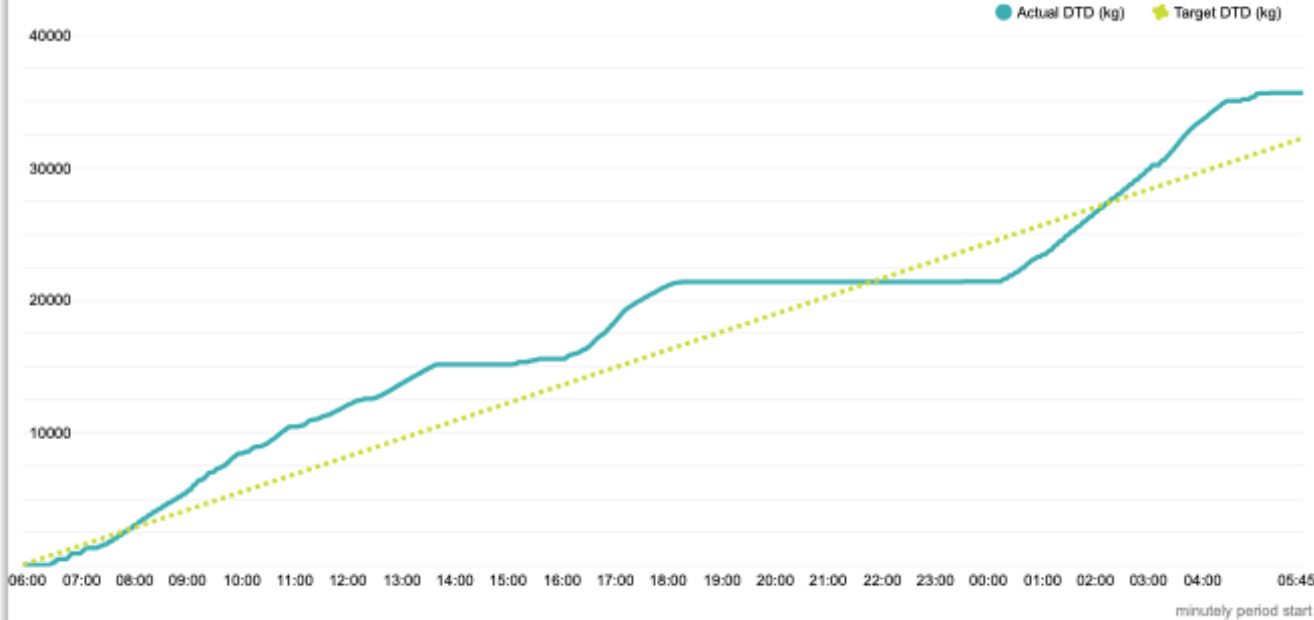
Average Hourly Throughput Rate
2798 kg/hr



Average Daily Throughput Rate
24200 kg/day



Current Day's Production



MacBook Pro

Processing Production Dashboard

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DAILY DOWNTIME REPORT

Report Period: 2024-10-20 06:00 to 2024-10-21 06:00

DOWNTIME EVENTS

Period	Details	Comments
Start: 2024-10-20 06:00 End: 2024-10-20 06:10 Duration: 0,17 hours	Section: Washplant Machine: Hot Wash Tower Category: Blocked	None
Start: 2024-10-20 06:16 End: 2024-10-20 11:15 Duration: 4,98 hours	Section: Washplant Machine: 40T Mixing Silo Category: Blocked	(ITC\rpsl@2024-10-20 14:45:25) - "Silo full"
Start: 2024-10-20 15:26 End: 2024-10-20 15:36 Duration: 0,17 hours	Section: Washplant Machine: Hot Wash Tower Category: Blocked	None
Start: 2024-10-20 15:49 End: 2024-10-20 16:05 Duration: 0,27 hours	Section: Washplant Machine: Separation Tank Category: Blocked	(ITC\rpsl@2024-10-20 19:16:53) - "Discharge screw"
Start: 2024-10-20 16:11 End: 2024-10-20 16:24 Duration: 0,22 hours	Section: Washplant Machine: Separation Tank Category: Blocked	(ITC\rpsl@2024-10-20 19:10:48) - "424 "
Start: 2024-10-20 16:53 End: 2024-10-21 02:17 Duration: 9,4 hours	Section: Washplant Machine: Floater Category: Breakdown	(ITC\rpsl@2024-10-21 07:59:56) - "Chain was broken"

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DAILY DOWNTIME REPORT

Report Period: 2024-10-20 06:00 to 2024-10-21 06:00

DOWNTIME SUMMARY

Downtime per Section

Section	Hours	%
Washplant	15,92	99
None	0,17	1

Downtime per Machine

Machine	Hours	%
Floater	9,52	59
40T Mixing Silo	4,98	31
Separation Tank	1,08	7
Hot Wash Tower	0,33	2
None	0,17	1

Downtime per Category

Category	Hours	%
Breakdown	9,4	58
Blocked	6,52	41
None	0,17	1

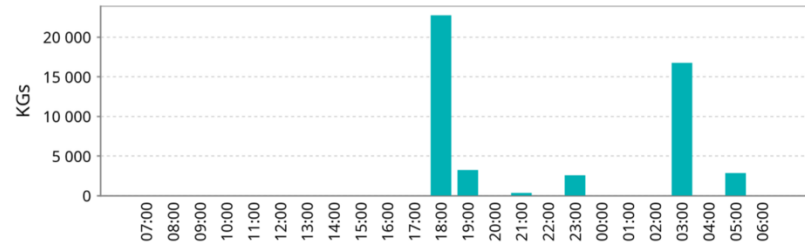
Report Period: 2024-10-17 06:00 to 2024-10-18 06:00

STOCK ON HAND

RP00101_BLK	RP00102_AWHT	RP00102_JBLK	RP00102_JGRY	RP00104_60_BLK	RP00106_SGRY
33 561	11 302	44 035	1 960	0	0

RF00101_JBLK	RF00101_JGRY
0	0

SHREDDER PERFORMANCE



SHIFT SUMMARY

Day Shift

Material	Stock Code	Total Weight	% of Shift Total
HDPE Rigid	RVI000302	488 kg	2 %
Post consumer waste (PP)	RVC000101	17 798 kg	78 %
Post industrial waste (PP)	RVI000102	4 461 kg	20 %
Day Shift Totals:		22 747 kg	

Night Shift

Material	Stock Code	Total Weight	% of Shift Total
Lumps & Sweepings (PP)	RVI000103	149 kg	1 %
Post consumer waste (PP)	RVC000101	20 138 kg	78 %
Post industrial waste (PP)	RVI000102	5 553 kg	21 %
Night Shift Totals:		25 840 kg	
Totals:		48 587 kg	

WASHPLANT PERFORMANCE

Report Period: 2024-10-17 06:00 to 2024-10-18 06:00

Total Production	Total Scrap	Scrap Rate (5 Days)	Avg. Throughput	Utilisation
44 547 kg	4 040 kg	23,08 %	2 756 kg/hr	164,28 %



DOWNTIME SUMMARY

Shift	Planned	Actual	Difference
Day	6 hrs	3,15 hrs	2,85 hrs
Night	6 hrs	1,13 hrs	4,87 hrs
Total	12 hrs	4,28 hrs	7,72 hrs

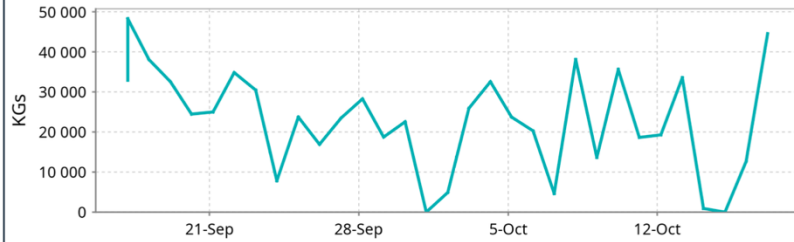
DOWNTIME EVENTS

Section	Machine	Category	Duration
General/Utilities	Buildings	Other	0,5
Washplant	Flake weigher	Blocked	0,12
Washplant	Hot Wash Tower	Blocked	0,47
Washplant	Loop dryer 1	Blocked	0,67
Washplant	Separation Tank	Blocked	0,52
Washplant	Separation Tank	Blocked	0,67
Washplant	Separation Tank	Blocked	1,35

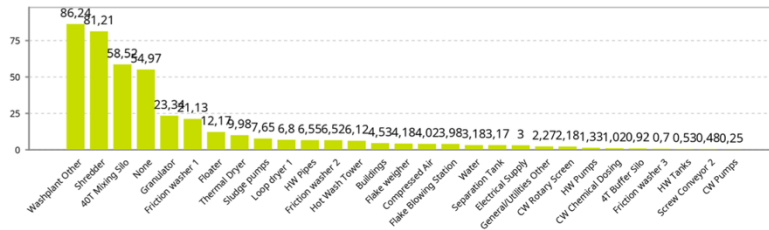
31 - DAY HISTORY

Report Period: 2024-09-17 06:00 to 2024-10-18 06:00

Total Flake Production	Avg Flake Production	Avg Flake Production	Avg % Scrap	Utilisation
737 036 kg	23 032 kg/day	2 772 kg/hr	8,28 %	91,42 %



DOWNTIME PER MACHINE



DOWNTIME PER CATEGORY



RE:MINE PERFORMANCE

Report Period: 2024-09-17 06:00 to 2024-10-18 06:00

PRODUCTION

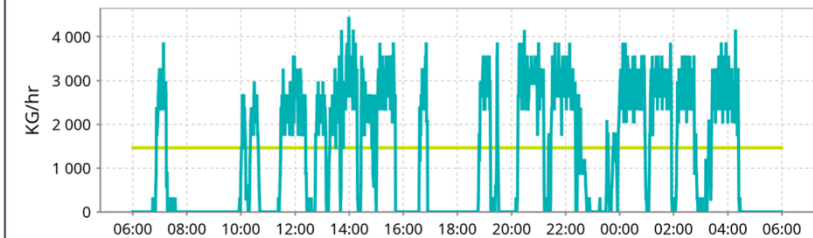
Period						Total
24-Hr	14 253 kg	4 180 kg	0 kg	10 415 kg	1 913 kg	30 761 kg
7-Day	38 506 kg	30 448 kg	0 kg	64 546 kg	9 254 kg	142 753 kg
31-Day	166 315 kg	142 051 kg	24 kg	260 877 kg	54 857 kg	624 124 kg

DISTRIBUTION

Period					
24-Hr	46 %	14 %	0 %	34 %	6 %
7-Day	27 %	21 %	0 %	45 %	6 %
31-Day	27 %	23 %	0 %	42 %	9 %

PRODUCTION RATE (24HRS)

Metric	24-Hr	31-Day
Avg. Throughput	1 456 kg/hr	1 467 kg/hr



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THANK YOU

