

Energy Management Initiatives

Sai Life Sciences Ltd, Bidar, Karnataka.

- **Lead Presenter** : Mr. Surya Prakash (Corporate- Engineering)
- **Team Member** : Mr. Venu Gopal (Energy Manager-Process Engineering)



UNIT-IV,
BIDAR,
KARNATAKA



Sai

Make it
better together

Sai Life Sciences delivers advanced Discovery, Contract Development and Manufacturing Solutions, through a broad suite of expert capabilities across the molecular lifecycle.

Having headquarter in Hyderabad, our R&D and manufacturing facilities are built to global standards and cater to international clients. New facilities are planned for future and existing ones are expanding with state-of-the-art infrastructure.

2000+

EMPLOYEES

Strong pool of scientific talent consists of

700+

R&D

500+

MANUFACTURING

300+

QUALITY

Current facilities

Biology, Cambridge (USA)



R&D, Hyderabad



R&T, Hyderabad



Process R&D, Manchester



Manufacturing, Bidar



Biology Lab, Boston



Contd....



Current facilities

Additional Clean Room Facility, Bidar



Biology Lab, Hyderabad



Upcoming facilities

High Potency Facility, Bidar



Additional Manufacturing Facility (200 KL), Bidar



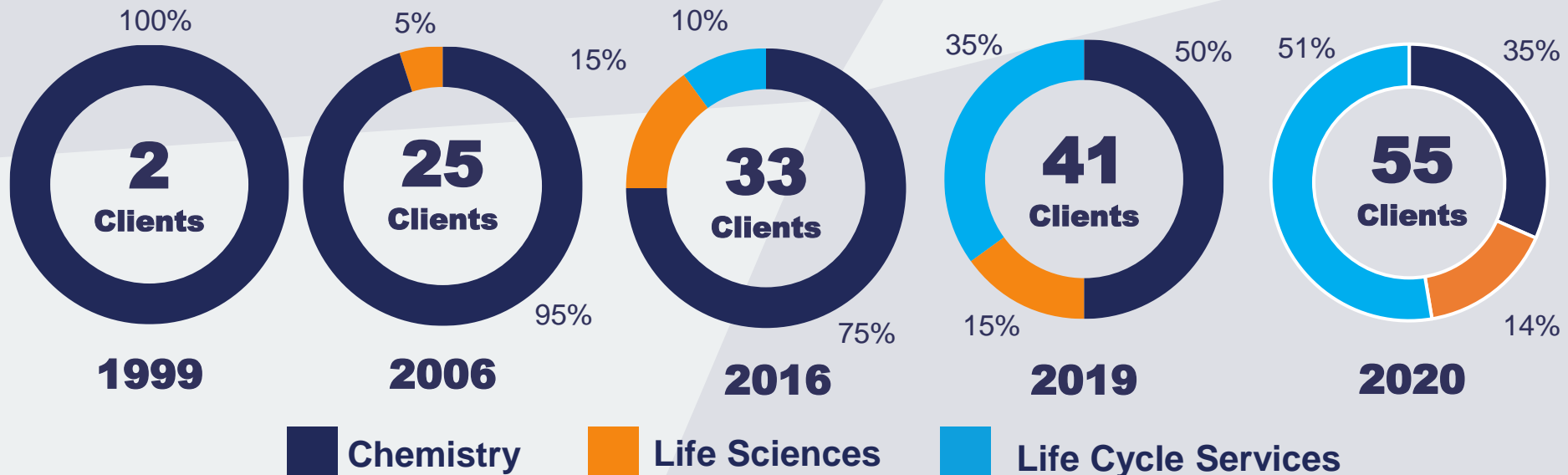
Amidites block, Bidar



Discovery Expansion at R&T Centre, Hyderabad



MOLECULAR LIFE CYCLE SERVICES



Impact of Covid-19

Impact on annual production performance

- Due to adequate care, no impact on production compared to FY20
(16% increased FG production compared to FY20)

Impact on Specific energy consumption (SEC)

- Due to adequate care, no impact on SEC compared to FY20
(19% reduced SEC w.r.t FG production compared to FY20)

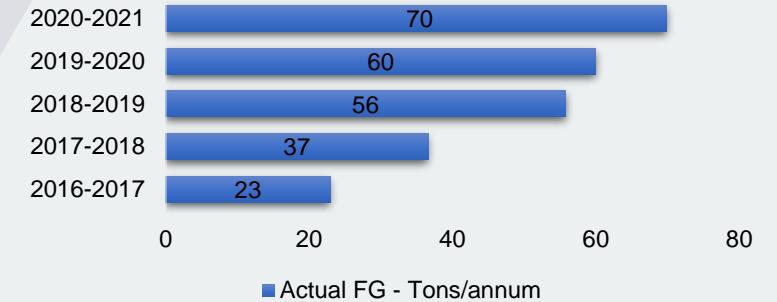
Measures taken by the plant / unit to address the challenges

- a) Initiatives undertaken to improve energy performance of Utility areas
- b) Energy efficiency improvements undertaken
- c) Initiatives undertaken to improve capacity utilization

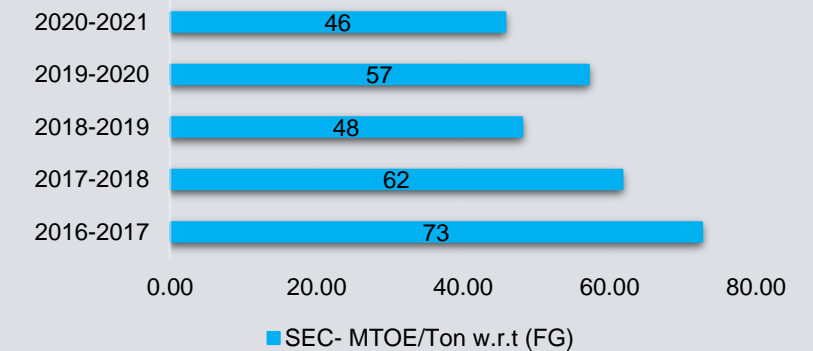
Impact on COVID 19 on Energy Efficiency

- a) Drop in the productivity against the FY21 projections.
- b) Impact on the energy conservation projects implementation due to travel restriction by technology providers.
- c) Logistics & delivery of material got impacted due to travel restrictions

Actual production



SEC (MTOE/Ton)

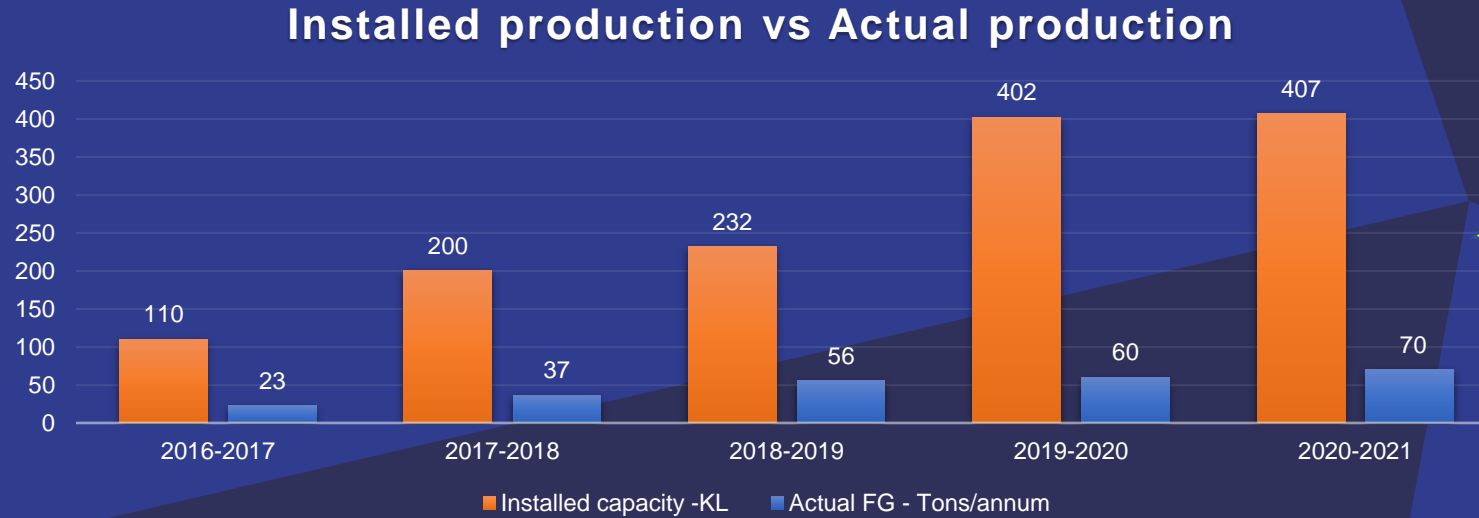


Unit IV

1. Installed Capacity Vs Actual Production Vs Energy

Production Overview

FY 2017 to FY 2021
 3.7 times – Installed capacity
 3.0 times –FG production

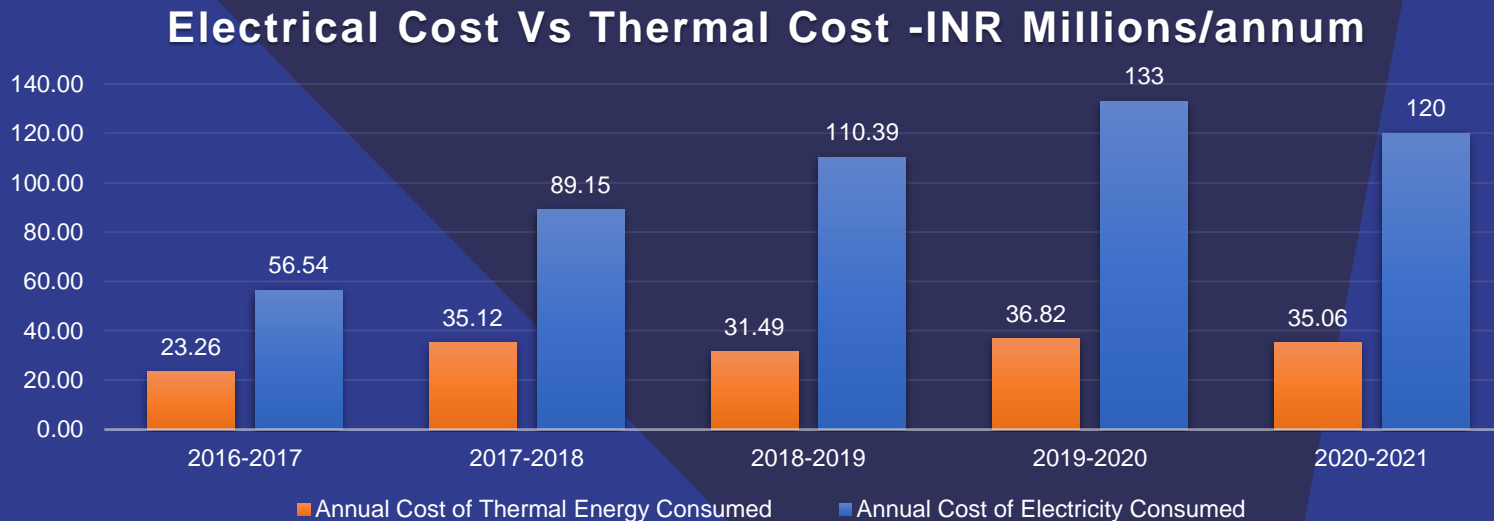


FY :2020 to FY2021

Nominal hike in installed capacity (1.2%)
 1.16 times –FG production (16%)

Energy Cost Overview

FY 2017 to FY2021
 1.5 times (Thermal)
 2.1 times (Electrical)



FY 2020 to FY2021

10% drop in Thermal
 5% drop in Electrical

Unit IV

1.1 Energy Consumption Vs SEC-Thermal & Electrical

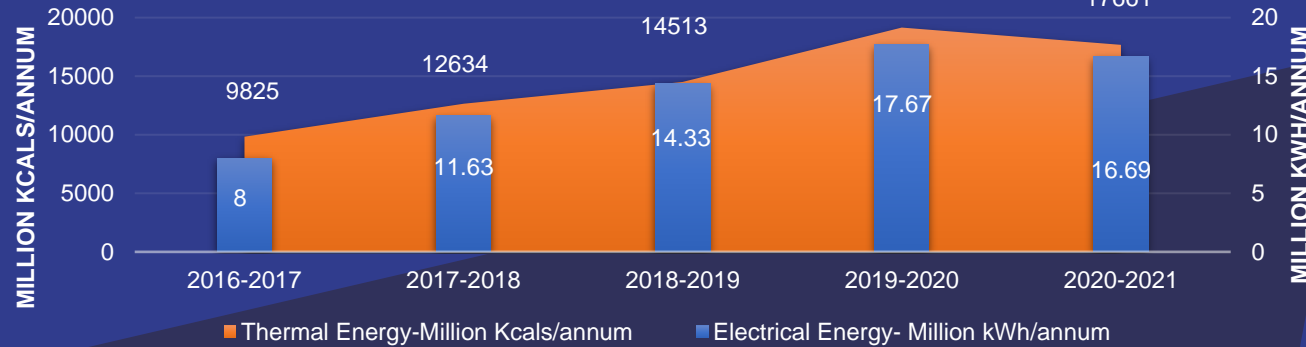
Energy Consumption Overview

FY2017 to FY2021

1.79 times (Thermal)
2.00 times (Electrical)

Thermal Consumption vs Electrical Consumption

Million Kcals/annum vs Million kWh/ annum



FY2020 to FY2021

7.7% drop in Thermal
5.5% drop in Electrical

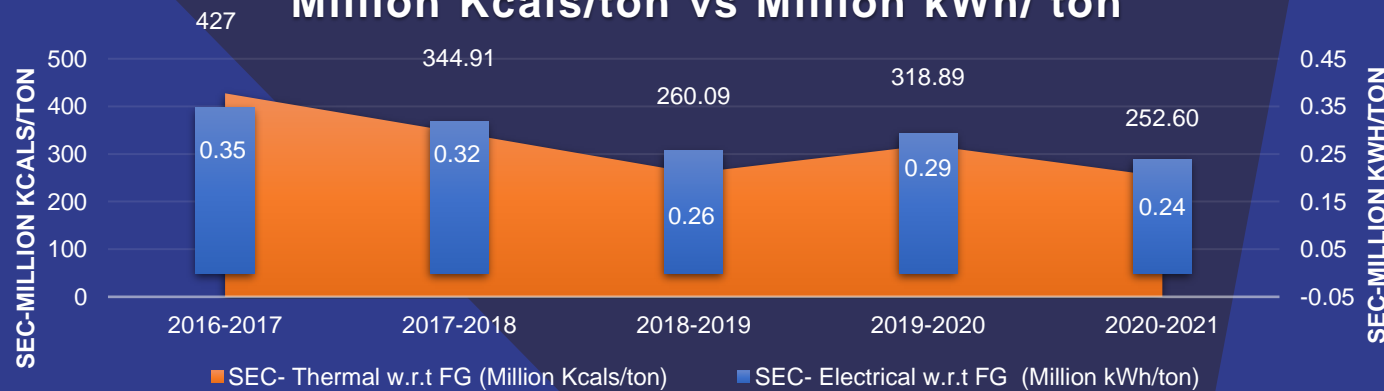
SEC w.r.t FG Overview

FY2017 to FY2021

40.8 % (Thermal-SEC)
31.4 % (Electrical-SEC)

SEC - Thermal vs SEC-Electrical (w.r.t FG)

Million Kcals/ton vs Million kWh/ ton



FY2020 to FY2021

20% drop in Thermal-SEC
17% drop in Electrical-SEC

Production

3.0 times(204%) –FG production

FY2020 to FY2021

16% hike in FG production

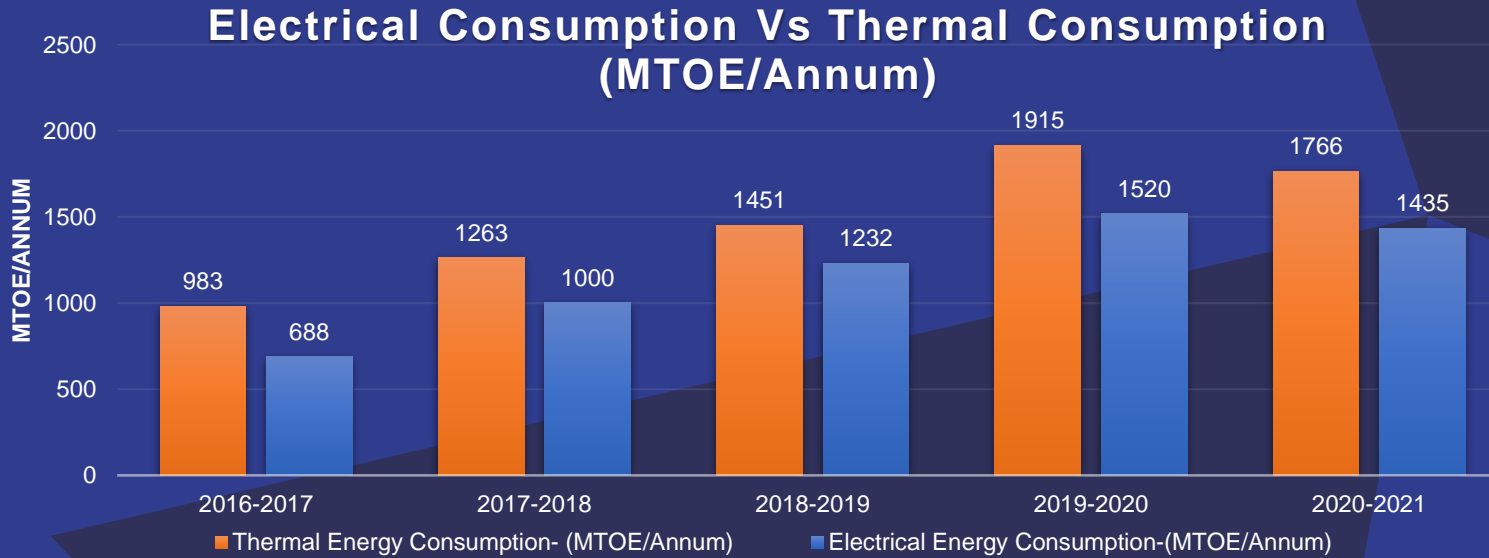
Unit IV

1.2 Energy Consumption & SEC variations w.r.t MTOE

Energy Consumption Overview

FY2017 to FY2021

1.79 times (Thermal)
2.08 times (Electrical)



FY2020 to FY2021

7.7% drop in Thermal
5.5% drop in Electrical

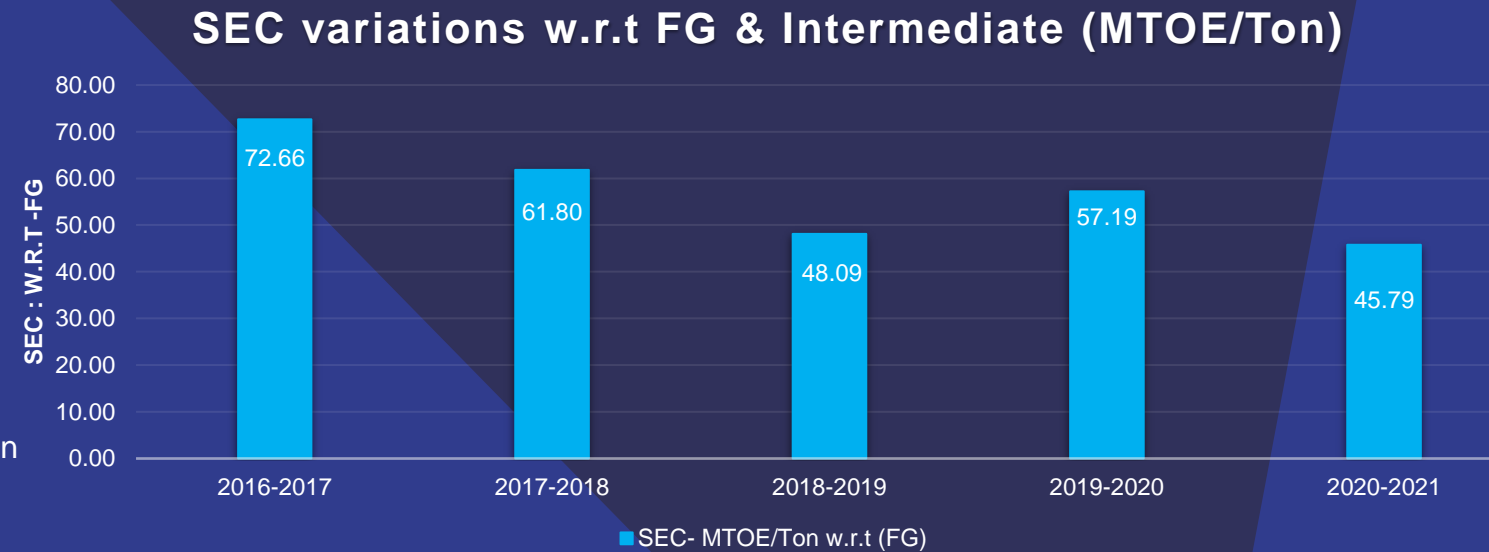
SEC Variations

FY2017 to FY2021

36.9 % w.r.t FG

FY2017 to FY2021

3.0 times (204%) –FG production



FY2020 to FY2021

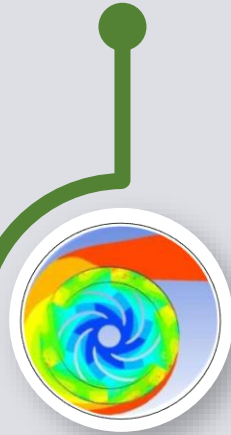
19% drop w.r.t FG

FY2020 to FY2021

16% hike in FG production

2. List of Major Encon projects planned for FY22

Centralization Pumps (SF2D) Optimization



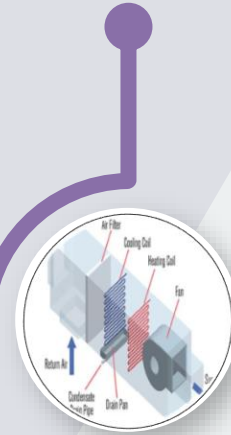
Aug-2021
Under Progress

Utility Integration of +5 chiller with variable primary



June-2021
Completed

AHU optimization by EC-Fan plus



Nov-2021
Under progress

Replacement with Energy Efficient pump



Nov-2021
Under progress

Replacement with Energy Efficient Bio-ETP blower



Dec-2021
Under progress

Status



Aug-2021
Under Progress

Savings



0.174 Million kWh/annum

0.106 Millions kWh/annum

0.05 Millions kWh/annum

0.564 Millions kWh/annum

0.101 Millions kWh/annum

Investment



Rs. 0.55 Million

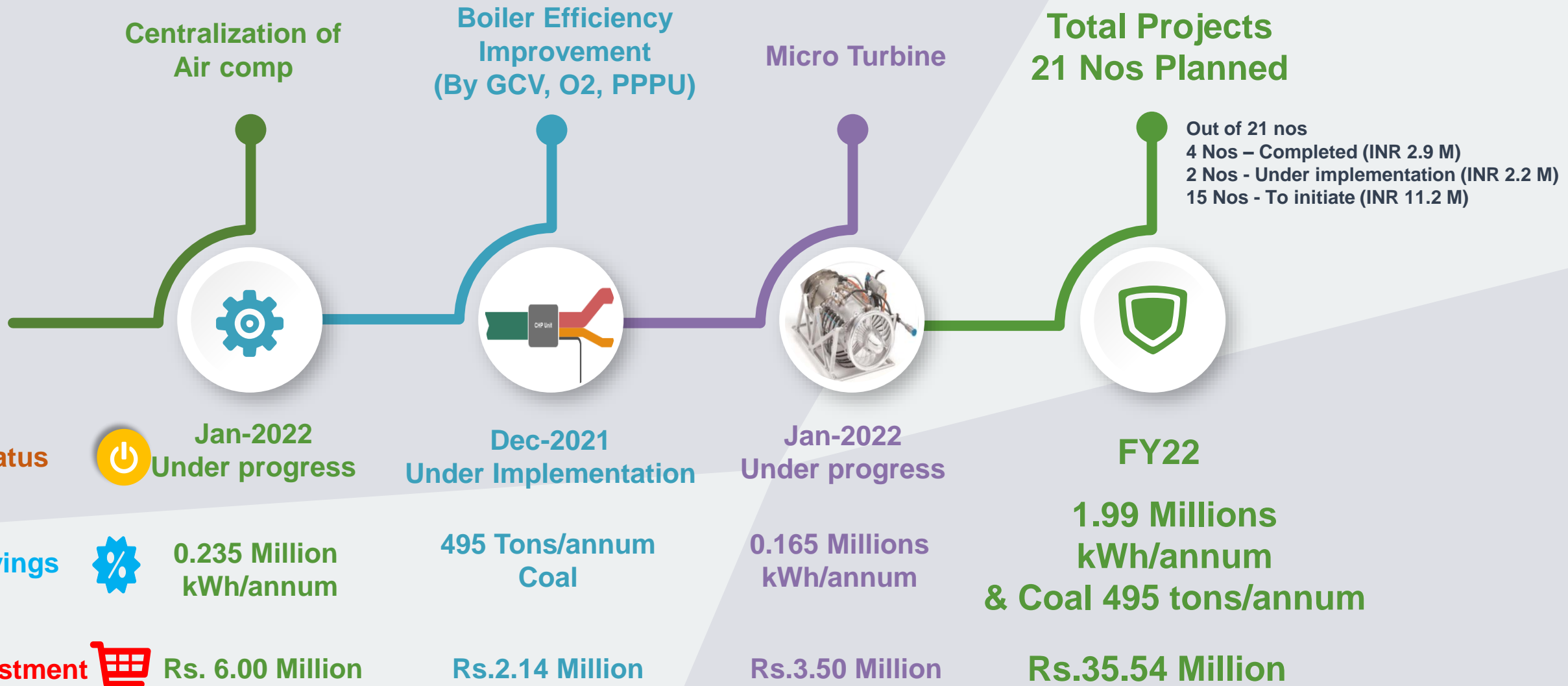
Rs.0.79 Million

Rs.0.59 Million

Rs.9.14 Million

Rs.2.2 Million

2.1 List of Major Encon projects planned for FY22

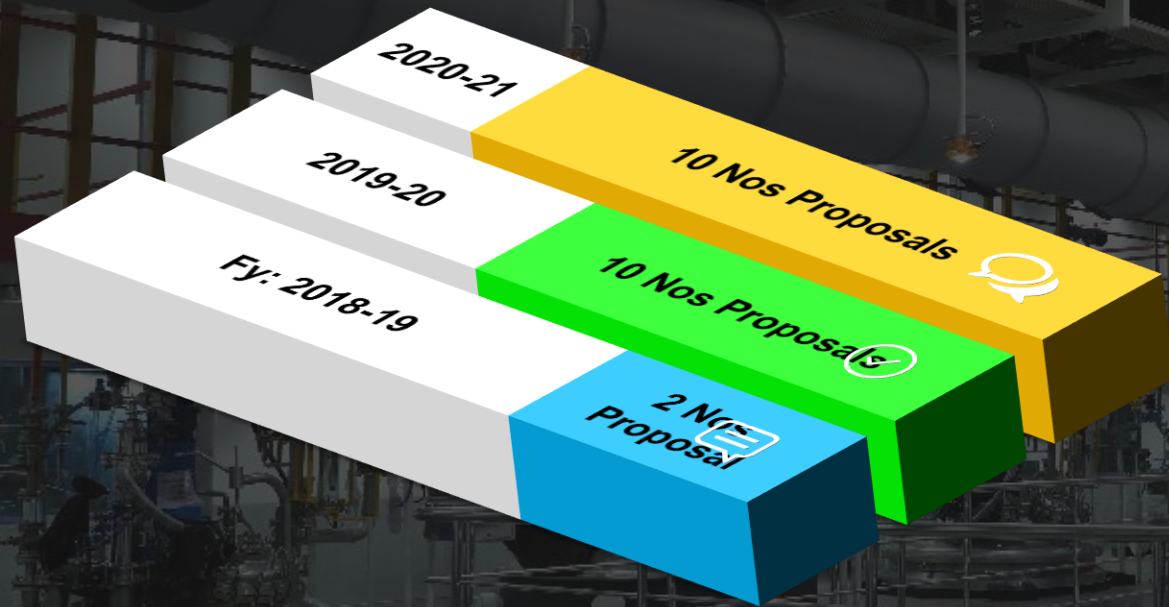


Expected saving potential: INR 16.33 Millions/annum

Unit IV

3. Last Three Years Projects

Last three years projects



Investment: 2.39 Rs. Million
Savings: 9.64 Rs. Million
Initiated ISO 50001: 2018 – Jan-2021



Investment: : 0.44 Rs. Million
Savings: 3.03 Rs. Million
Based on CII energy audit conducted : Dec 2018

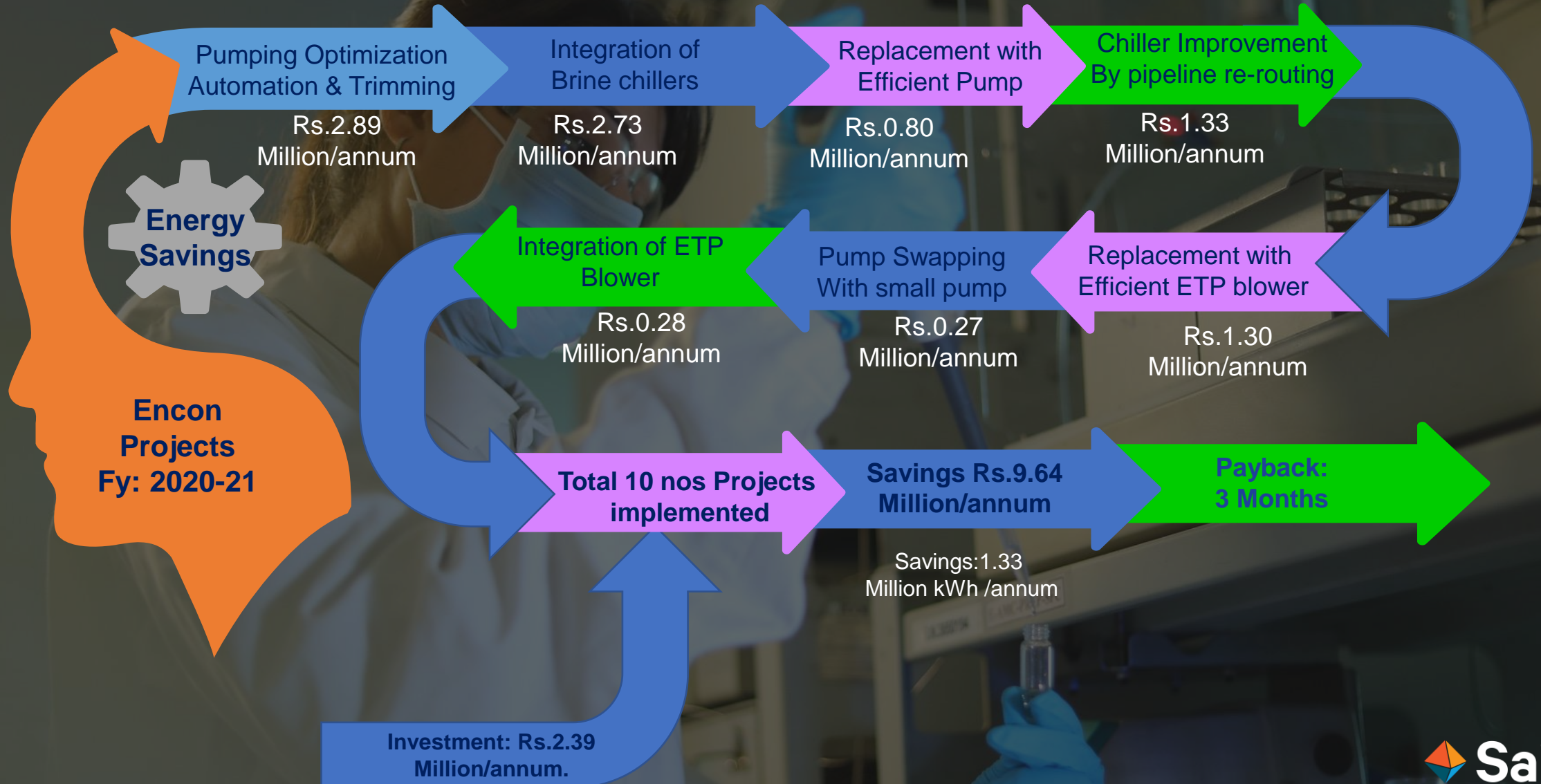


Investment: 30.2 Rs. Million**
Savings: 4.12 Rs. Million

Note: ** Major investment is conversion of 5TPH manual feed boiler to 10TPH FBC boiler conversion. (SFR improved from 4.2 to 5.2)

Unit IV

4. List of Encon projects implemented FY21



5. Innovative Projects Implemented

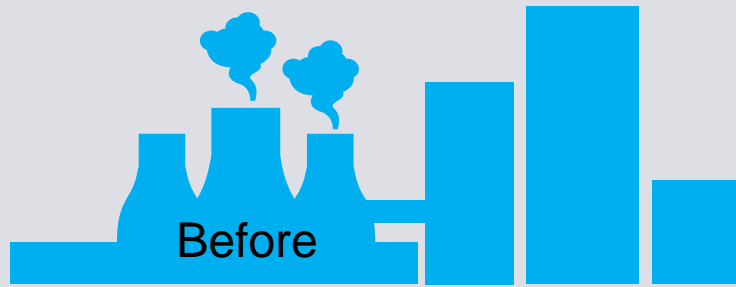


Chiller Utility
integration

Category-C

Two individual +5 chillers are running at partial loading with high ikW/TR
Integration of two +5 chiller system -Saving : **7.98 Rs. Lakhs/annum,**

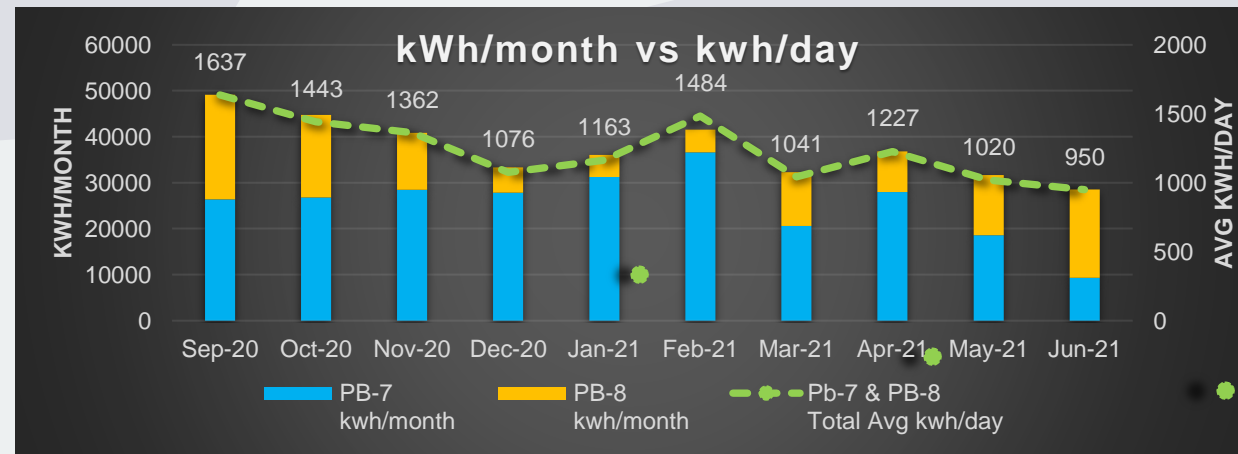
5.1 Innovative Project-1 (Utility Integration)



- Individual two utility +5 chiller are running for two production block facilities
- Both chillers are running at partial loading based on its occupancy
- Constant primary flow system



- Integration of both utilities
- Flow balancing carried out by converting from constant primary to variable primary with flow control logic.
- Actual saving > 300 kwh/day.



Unit IV

6. Utilization of Renewable Energy

Renewable Energy by third party PPA

FY20:

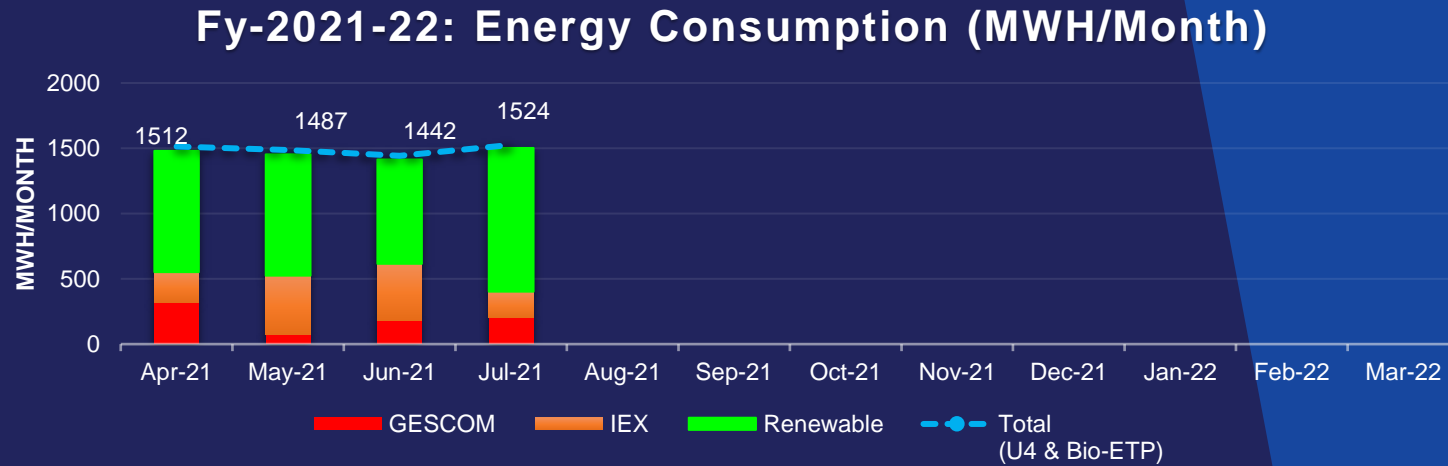
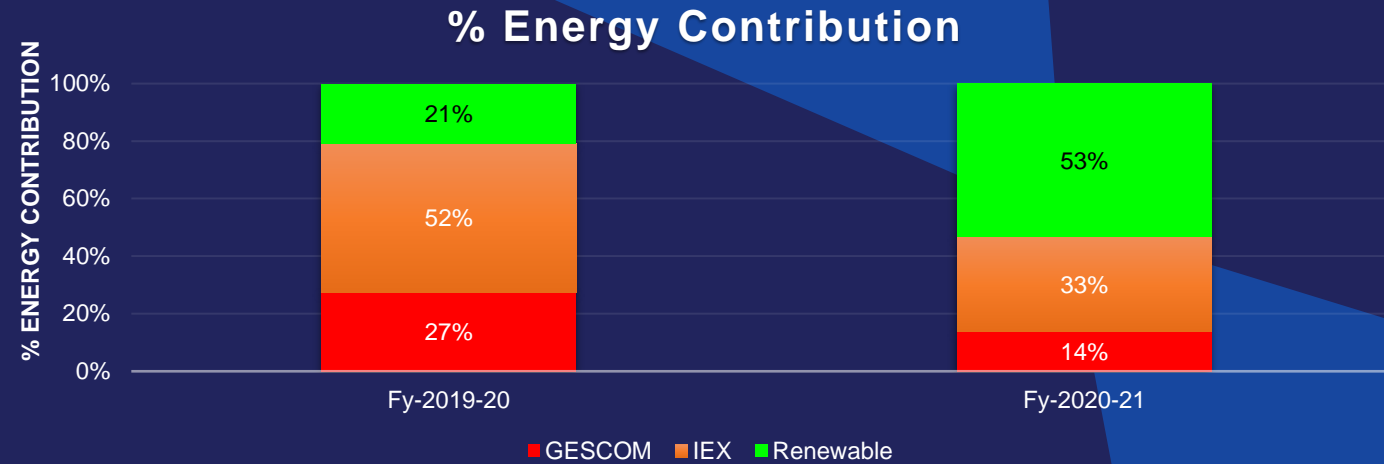
21%- Renewable

FY21:

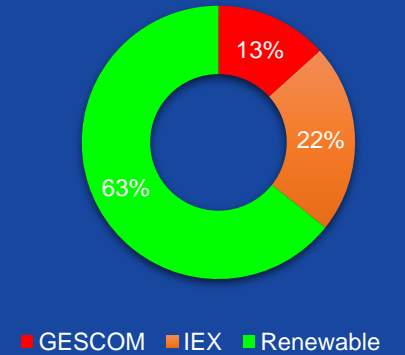
53%- Renewable

YTD July 22:

63% -Renewable



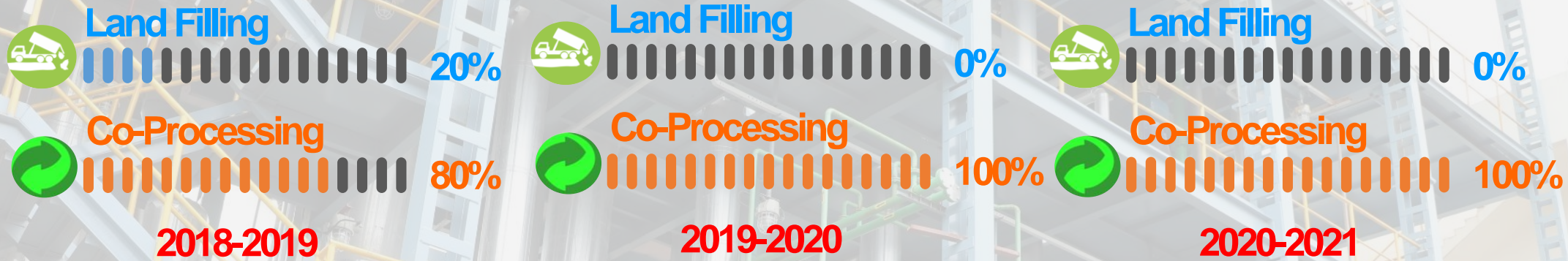
FY22 % Electrical Energy Utilization



Unit IV

7. Waste Utilization & Management

Environmental performance



Other initiatives at plant level



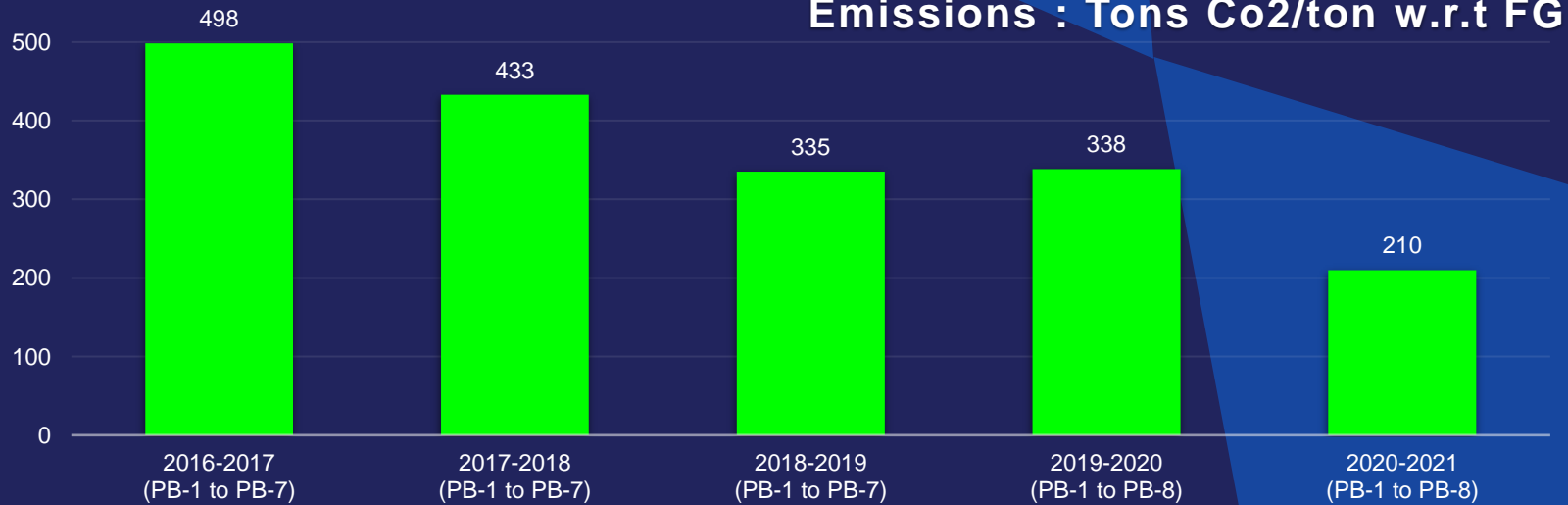
Unit IV

8. Co2 Emissions

At Sai Life Sciences, we are committed to playing our part towards a more sustainable future. As a company committed to a healthier tomorrow, we understand our responsibility towards socio-economic development, climatic change mitigation, resource conservation and reduce Co2 emissions.

Sustainability @ Sai

FY :2016 to 2021
57% drop in Co2 emissions w.r.t FG



FY2020 to FY2021
37% drop in Co2 emissions w.r.t FG

CO2 emission conversion considered as below

- a) Electrical-Grid : 820 kg CO2/MWh
- b) HSD fuel : 2.67 kgCO2/lit
- c) Coal : 1816 kgCO2/ton
- d) Furnace Oil : 2.93 kgCO2/lit

Source: IPPC/ ghg protocol

Towards Environment norms (Air quality, SOx, NOx, etc.)					
Sl.No	Type of system installed	Supplier	Investment Rs. Millions	Operating Cost (Rs in Millions)	Running Hours
1	Bag filter & cyclone separator for 10 TPH & 5TPH boiler	Thermax	2.5	0.25	8160
2	Scrubbers 11 Nos	Chemplast/N plast	2.5	0.2	7000
3	Coal Dust suppression system	SN engineering	0.45	0.1	8160
4					

SCM @ Sai

Green SCM Policy

Sustainability is the integral part of business

Paperless office

100% RFQ, GMP pro, LMS



Use of biodegradable

For packing materials, raw materials, intermediates.

Partners segmentation

SWOT analysis for vendor identification.

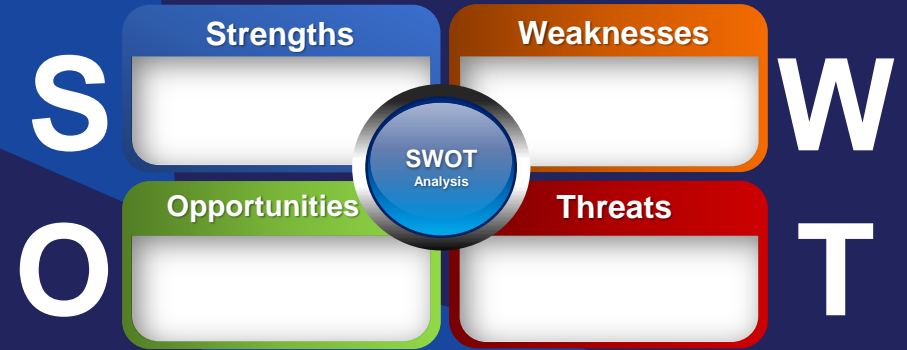
9.1 Green Supply Chain Management

Vendor Assessment methodology:

SCM @ Sai

We at Sai, perform Vendor SWOT analysis of key projects,

- Covering HSE aspects (Health, Safety and Environment)
- Technical expertise (**SOP revised-FY21**),
- Statutory & regulatory compliance,
- Infrastructure & Quality Management Systems.



- We also take help from Third party agencies for vendor assessment e.g. D&B, PWC, Meritor etc.

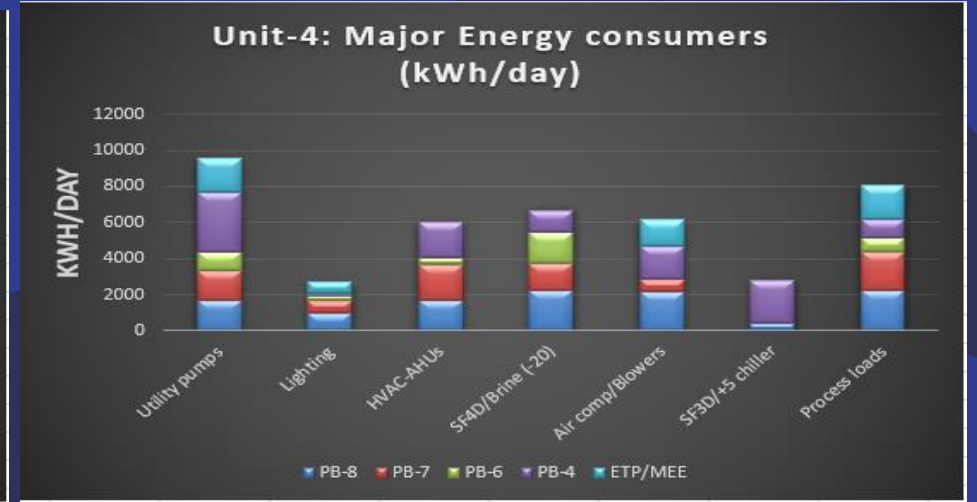
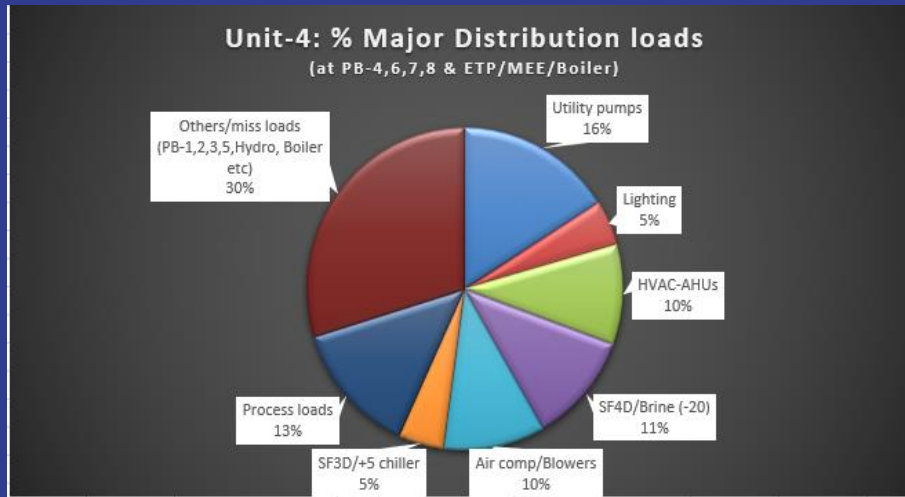
SI.No	Projects Implemented	Investment Made (Rs In Million)	Benefits Achieved
1	Renewable Power Purchase agreement	52.5	INR saving 10.9 Rs. million & 7298Tons Co2 emissions reduction (53% in FY21)
2	Cargo consolidation	0.33	INR saving 1.1 Million & converted from road transport to Rail transport , thus reduced 600 KMs road transport to 47 Nos consignments

Unit IV

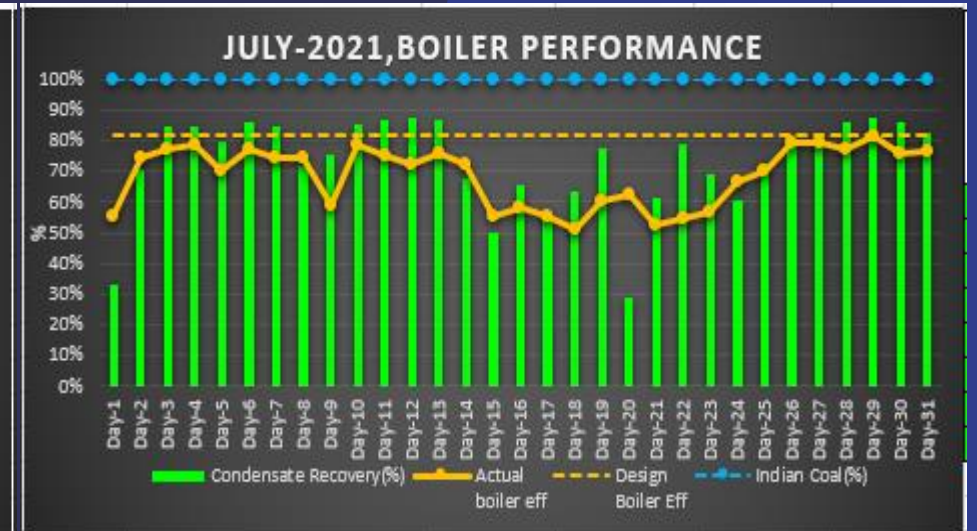
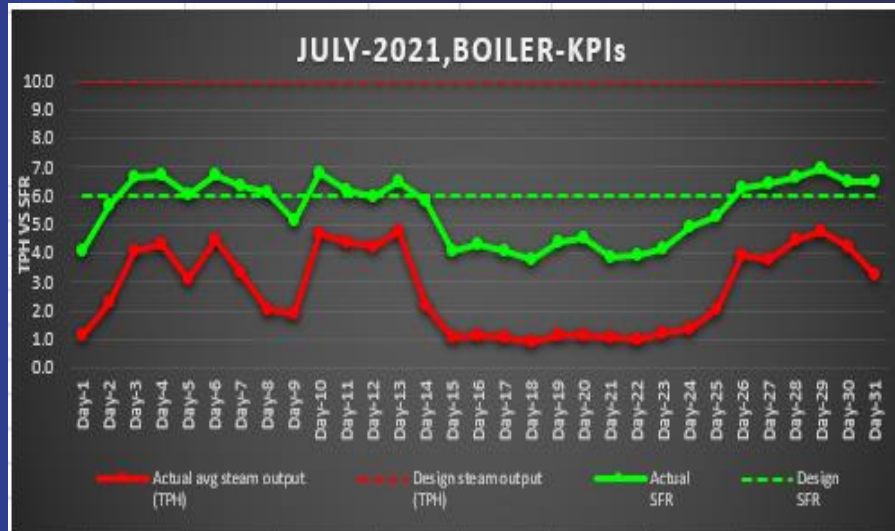
10. Energy Monitoring (Electrical vs Thermal)

Energy Mapping

- 1) Unit-4 – Electrical
 - a) Utility – 60%
 - b) Process – 15 %
 - c) Miss Energy- 25% (MEE/Boiler/Admin/WH)



- 2) Unit-4 – Thermal
 - a) Process- 25%
 - b) MEE Operation- 75 %



Unit IV

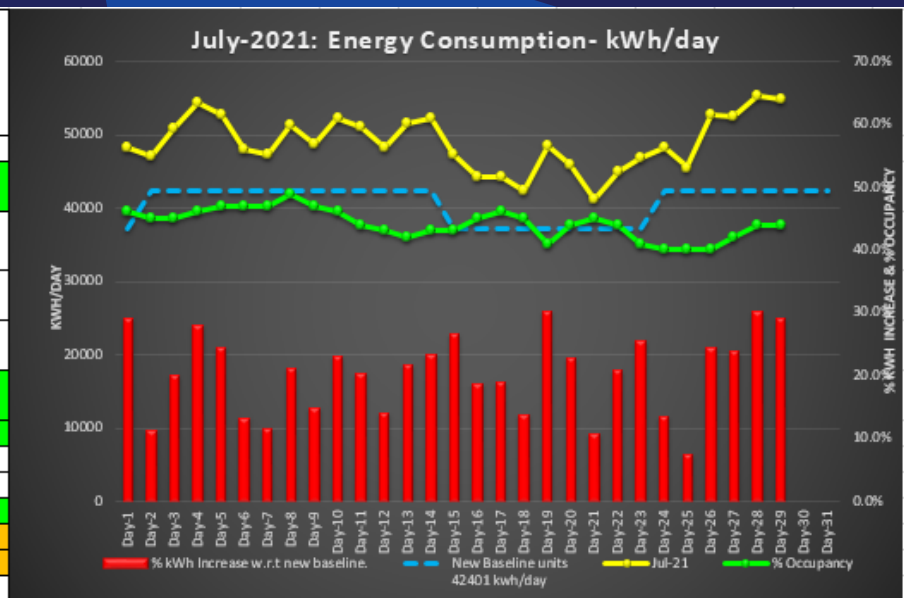
10.1 Energy Monitoring

Energy Review a) Daily monitoring of energy monitoring by IOT based EMS system and review w.r.t baseline of @ Sai

b) Raising SET* action points w.r.t target date to minimize energy gap by addressing (Leakages – steam, traps, valves passing, comp air, & N2, insulation, PF, miss operations, utility requirements block wise)

SI.No	Loads at PCC Feeder panels	Baseline day kWH/Day	Previous day 28-July-2021		Yesterday 29-July-2021		Variation w.r.t Baseline day & Yesterday KWH/Day	Variation w.r.t Previous day & Yesterday KWH/Day
			New baseline	KWH/Day	% Occupy	KWH/Day	% Occupy	Difference
Nos	LT feeder level							
1	PB-1 Feeder : (PB-1+Canteen+DI water+LYO)	2600	↓ 2798	33%	↓ 2490	36%	↓ -110	↓ -308
2	PB-02 Feeder: (PB-2+PB-3+PB-4+PB-5+Boiler+PR&D)	3000	↑ 4268	80%	↑ 4747	75%	↑ 1747	↑ 479
3	PB-4 Feeder: (PB-2+PB-4+ Old ETP)	5000	↑ 5739	79%	↑ 5962	70%	↑ 962	↑ 223
4	PB-6 Feeder: (PB-6+ Workshop Comp+N2 Plant)	4300	↑ 5492	53%	↑ 5513	55%	↑ 1213	↑ 21
5	PB-7 Feeder (PB-7, Admin, WH & Boiler)	12899	↑ 19434	38%	↑ 18992	42%	↑ 6093	↓ -442
6	PB-8	8000	↑ 11591	39%	↑ 11132	39%	↑ 3132	↓ -459
7	ETP/NEW MEE	6000	↓ 5916	NA	↓ 5932	NA	↓ -68	↑ 16
9	DG sets (+ve) or Lossess (-ve)	-500	↑ 0	0%	↑ 0	0%	↑ 500	↑ 0
9	TOTAL/day	42401	↑ 55238	44%	↑ 54768	44%	↑ 12367	↓ -470
10	Total cumulative kwh units -Jul-2021				1418496		kwh/ Month (till date)	
11	Avg kwh units/day - Jul-2021				48914		avg kwh/day (till date)	

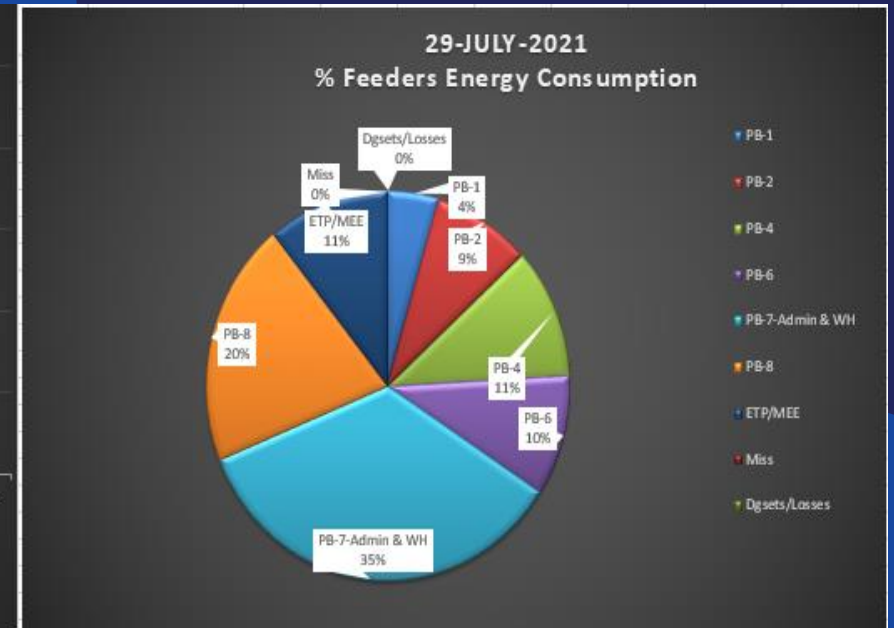
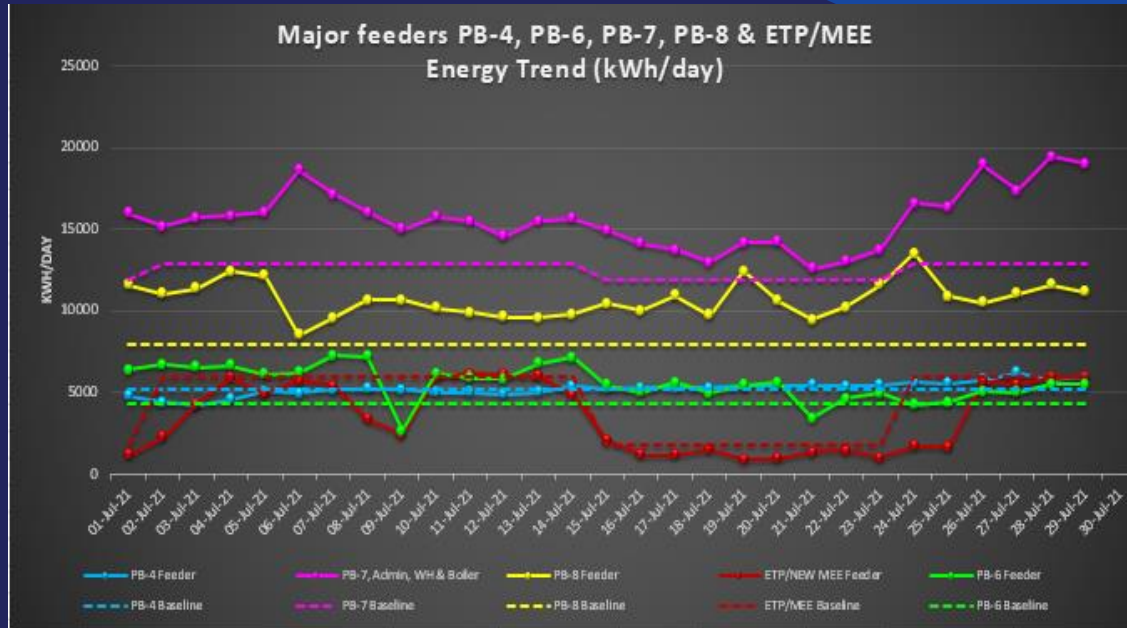
Note: Above areas consumption at PCC LT Feeder level, it may differ to actual consumption of blocks.



Unit IV

10.2 Energy Monitoring

Energy Review
@ Sai



b) Weekly & Monthly Energy Review to discuss on capex approvals, status of energy projects

Mr. Ramesh . M
Mr. Shrinivas
Mr. Kotagi.M
Mr. Venkatesan
Mr. Venu Gopal
Mr. Surya Prakash

- Associate Vice President
- GM
- DGM
- Sr.Manager
- Energy Manager
- Associate Vice President

(Site Head)
(HOD-Engineering)
(Utility-Engg)
(Electrical-Engg)
(Process Engineering)
(Corporate- Engineering)

10.3 Internal benchmarking & Asset SEC

Energy Review
@ Sai

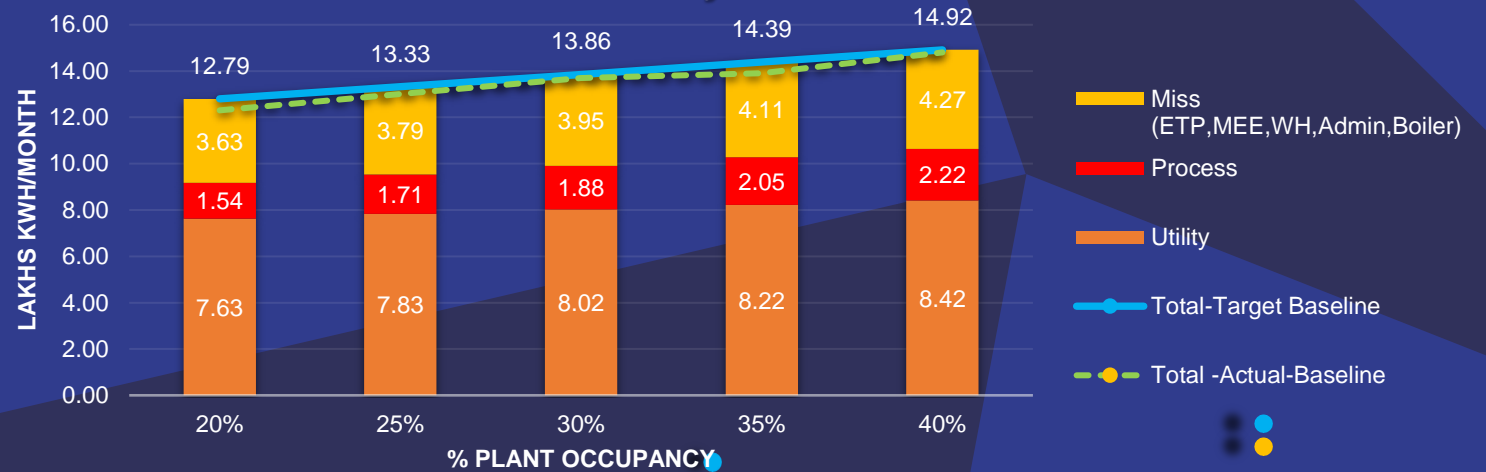
Energy Benchmark

- a) Utility Energy w.r.t % Occupancy
- b) Process Energy w.r.t % Occupancy
- c) Miss Energy w.r.t % Occupancy

Assets SEC

- a) KPI Chiller – ikW/TR (<0.55 ikW/TR)
- b) KPI Pumps Efficiency - % (>60%)
- c) KPI Air Comp – kW/CFM (< 0.20 kW/CFM)
- d) KPI Transmission losses (< 5% losses)

Normalisation: Utility vs Process vs Miss



Date	Time	PB-4 315 TR, Daikin Chiller (DWCC05)							PB-4 28TR, Voltas Brine Chiller (DCRC07)				
		kw	%load	TR	Temp °C Limit > 6 °C	ikW/TR Limit < 0.60	Condenser Approach limit < 3 °C	kw	%load	TR	Temp °C Limit < -15 °C	ikW/TR Limit < 1.50	Condenser Approach limit < 3 °C
01-Jul-21	13:00	65.4	30%	107.14	7.10	0.61	1.83	40.38	73%	22.21	-14.70	1.82	2.9
02-Jul-21	14:00	54.0	25%	107.14	7.10	0.50	1.73	37.15	68%	17.51	-13.80	2.12	1.5
03-Jul-21	12:00	59.1	27%	113.10	7.10	0.52	2.01	38.25	70%	26.91	-15.70	1.42	3.0
17-Jul-21	13:00	89.1	41%	130.95	6.80	0.68	3	38.74	70%	23.49	-14.30	1.65	0.8
18-Jul-21	12:00	79.4	36%	130.95	7.00	0.61	2.84	40.20	73%	23.49	-14.30	1.71	0.8

Date	PB-8- Utility Pumps Monitoring														
	SF1D					SF2D					SF3D				
DD/MMM/YY	Pressure KSC (2kg/cm2)	inlet/outlet (Temp)	No of pumps running	Frequen cy Hz	RPM	Pressure KSC (2kg/cm2)	inlet/o utlet (Temp)	No of pumps running	Frequen cy Hz	RPM	Pressure KSC (2kg/cm2)	inlet/out let (Temp)	No of pumps running	Frequen cy Hz	RPM
28-Jul-21	2.4	106.4	1	30	1482	2	18.1	1	30	2628	1.6	6.7	1	45	2812
29-Jul-21	2.1	105.2	1	30	1480	2	16.5	1	31.7	2262	1.3	7	1	45	2812
30-Jul-21	2	106	1	31.8	1480	2	17.6	1	29.8	2317	1.7	6.9	1	45	2812

Target SEC: Is challenging in CRMS due to multiple products and stages of operations

Unit IV

10.4 Sustainability Initiatives & Energy Awareness

Energy Review @ Sai

- Green Chemistry : Adoption of green chemistry principles in process development
- As per the standards GRI (Global Reporting Initiative) started publishing sustainability report .
- Green belt development program (4000 Nos Tree Plantation in Fy-2020-21)
- Energy Efficiency Awareness programs/Trainings
- Daily Shop floor Effectiveness Team (SET & AET meeting) to track Energy KPIs, Energy Conservation Action points, Kaizen Projects.



Sustainable Development Goals

April 01, 2019

At Sai Life Sciences, we are committed to playing our part towards a more sustainable future. As a company committed to a healthier tomorrow, we understand our responsibility towards socio-economic development, climatic change mitigation and resource conservation.

Considering FY 2019 as the baseline year, by the end of FY 2022 we commit to:

- Reduce specific water consumption by 10%
- Reduce specific greenhouse gas emission by 10% and replace 10% of our overall energy requirement with renewable sources
- Reduce specific hazardous waste generation by 10% and recycle 70% of hazardous waste through co-processing and alternate reuse
- Create more opportunities for women and increase the percentage of women employees in total workforce to 12%
- Provide education and create livelihood for 1500 people from financially and socially less privileged communities through our CSR programmes
- Provide free medical screening to 10,000 people through our healthcare programmes
- Perform competency profiling and risk assessment for all critical raw material suppliers

Krishna Kanumuri
Managing Director & CEO

Sivaramkrishnan Chittoor
Chief Operating Officer



Energy Policy

March 19, 2021

Sustainability is integral to every facet of our business. Every day and in every way, we implement a sustained strategy that creates a positive impact on people and planet.

Ever mindful of social responsibilities and environmental concerns, our Energy Policy ensures reduction in energy consumption and adoption of renewable energy. Our Sustainable Development Goals include:

- Be one of the most energy efficient CDMO company in the sector
- Reduce energy consumption in plant operations, leading to lower carbon emission.
- Purchase energy at cost-effective tariffs and increase utilisation of renewable energy.
- Work towards investment in and implementation of a greater number of energy-efficient technologies.
- Set energy targets and constantly review benchmarks.
- Create an understanding of our Energy Policy among Saimers, customers and business partners.
- Adhere to statutory requirements and compliances related to energy management.

K Ranga Raju
Chairman

Krishna Kanumuri
Managing Director & CEO

Unit IV

10.5 Few Kaizen Projects

Energy Review

@ Sai

FY21:

Total Nos of Kaizen : 27 Nos

a) Completed : 19 Nos

b) Under implementation : 2 Nos

c) Under approval : 6 Nos

Sai Life Sciences Ltd.		KAIZEN IDEA - SHEET		Kaizen No.-01-Sept.	
Restoration / Renovation / Innovation Kaizen		Dept :Engineering		Zone Name : Chater 1 (PB 1 to 6)	
Plant : Utility		Machine :DGLR09		Kaizen theme :Power saving: Reduce the load (TR) on PB-04 -20° C brine chiller. (DCRC03 &07)	
Problem/present status : • Unnecessary energy waste (Power consumption) • In PB-4 utility area • While batch running in DGLR09 • At the time of erection itself it is installed like this		Countermeasure (Engineering solution): Before : DGLR09 reactor in PB-04 is having chilled water(+5°C) circulation to primary condenser and brine(-20°C) circulation to secondary condenser. This much cooling is not required in secondary condenser. After: Now the brine circulation has been removed and only chilled water(+5°C) supply is given to secondary condenser. Power saving by stopping on -20°C brine chiller around STR load reduced. And also there is no effect on batch cycle time and quality also.		Target Kaizen start 06/01/2020 Kaizen Finish 06/30/2020 Team members Siva Durga Rao Veni Gopal Chary Ravindranath Benefits: (P,Q,C,D,S,M) Productivity Quality NO Cost YES Delivery NO Safety NO Morale YES	
Benefits : Reduces the power consumption, by that cost saving also.		Tangible 1. Power saving due to STR load reduction.		Intangible 1. Learnings on power saving.	
Scope & plan for Horizontal Deployment					
S no	Target date	Responsibility	Status		
1	09-30-2020	Utility team	Completed		
2					
3					
4					

Sai Life Sciences Ltd.		KAIZEN IDEA - SHEET		Kaizen No.-01-AUG	
Restoration / Renovation / Innovation Kaizen		Dept :Engineering		Zone Name :	
Plant : Utility		Machine :DACP-01		Kaizen theme :Reduction of cooling water circulation rate for PB-1 air compressor.	
Problem/present status : • Unnecessary energy waste (Power consumption) • In PB-1 utility area • Continuously running with High capacity (7.5HP) motor • Installed for Chillers & air compressor purpose		Countermeasure (Engineering solution): Before : There is an air compressor in PB-1 which is running with 7.5HP motor & 20m3/hr. pump for CT water circulation. Actually that pump was installed for Chillers & Air compressor in PB-1 utility. Now Air compressor is only running. It is sufficient 5m3/hr. flow for this. Excess flow can be reduced with installation of low capacity pump. After: In place of 7.5HP & 20m3/hr. pump we will place 3HP & 5m3/hr. pump. By this we getting saving of 4.5HP power consumption per hour. Air compressor is continuously running 24*7 around 365days.		Target Kaizen start 06/15/2020 Kaizen Finish 06/25/2020 Team member Rajkumar Benefits: (P,Q,C,D,S,M) Productivity Quality yes Cost yes Delivery yes Safety yes Morale yes	
Benefits : Reduces the power consumption, by that cost saving also.		Tangible 1. To Avoid the excess power consumption		Intangible 1. To reduce the excess power consumption, by that cost also reduce (Money saving).	
Scope & plan for Horizontal Deployment					
S no	Target date	Responsibility	Status		
1	09/15/2020	Utility team	Initiated		
2					
3					
4					

Sai Life Sciences Ltd.		KAIZEN IDEA - SHEET		Kaizen No.-02-Oct.	
Restoration / Renovation / Innovation Kaizen		Dept :Engineering		Zone Name :	
Plant : Utility		Machine :DWCC05		Kaizen theme : Safety : DWCC05 evaporator chilled water circulation to be check and correct.	
Problem/present status : • Non uniform flow for evaporator • At DWCC05 chiller • Every time when chiller running • Wrong installation done at the commissioning time		Countermeasure (Engineering solution): Before : The Chilled water connected lines to DWCC05 evaporator are not connected to correct nozzles (i.e., replace of inlet line connect the outlet line and replace of outlet line connect inlet line at the time of commissioning. Due to this chiller is giving better efficiency at high power cost. After: Corrected the lines connection by replace the lines as per design (i.e., inlet line is connected at inlet nozzle and outlet line is connected at outlet nozzle). Now chiller is giving better efficiency with low power cost.		Target Kaizen start 10-30-2020 Kaizen Finish 10-05-2020 Team members Veni Gopal chary Ravindranath Benefits: (P,Q,C,D,S,M) Productivity Quality Yes Cost Yes Delivery yes Safety No Morale yes	
Benefits :		Tangible 1. Power cost is reduced and chiller efficiency is increased.		Intangible 1. Chiller running hours are came down, by effective cooling is achieving in minimum time only.	
Scope & plan for Horizontal Deployment					
S no	Target date	Responsibility	Status		
1	10-30-2020	Utility team	Completed		
2					
3					
4					

Sai Life Sciences Ltd.		KAIZEN IDEA - SHEET		Kaizen No.-03-JAN	
Restoration / Renovation / Innovation Kaizen		Dept :Engineering		Zone Name : Chater-1	
Plant : ETP (SRS block)		Machine :Pump		Kaizen theme : Instead of 250m3/hr, 35M & 45kw pump, 100m3/hr, 30M & 15kw pump is running for SRS block	
Problem/present status : • Higher capacity pump is running for less requirement • SRS block pump • During operation of SRS. • Because of lower capacity pump not building up pressure		Countermeasure (Engineering solution): Before : For SRS CT water service purpose 100m3/hr, 30M, 15KW is installed. But due to higher size of impeller (177mm) the pump getting cavitation, that's why pressure not building up. So we were run the 250m3/hr, 35M 45KW capacity pump is running only for SRS block. After: The lower capacity pump (100m3/hr, 30M, 15KW) impeller size is reduced (to 160mm), now the pump is not cavitating and building up pressure. So while running only SRS block this 15kw pump is running instead of 45kw pump.		Target Kaizen start 01-12-2020 Kaizen Finish 01-30-2021 Team members Siva Durga Rao P Venugopal chary T Ravindra charibayya N Benefits: (P,Q,C,D,S,M) Productivity Quality NO Cost NO Delivery Yes Safety NO Safety No Morale Yes	
Benefits : By running 15kw pump instead of 45kw pump, 30kw is energy is saving.		Tangible 1.Reduces the power cost.		Intangible NA	
Scope & plan for Horizontal Deployment					
S no	Target date	Responsibility	Status		
1	Completed	Siva Durga Rao	Completed		
2					
3					
4					

Unit IV

10.6 Energy Management Road Map

Energy Management Approach @ Sai

- Improving energy efficiency at Sai Life Group level
- Transforming the energy management to a system driven approach.
- More brainstorming on energy conservation activities.
- Enhancing investment in new energy efficient technologies.
- More involvement of Saimers in Energy Management activities.
- Energy Policy** : Rolled out Jan-2021

The way forward

- ISO 50001:2018 Energy Management System** : Targeting Sept-2021
- GreenPro or IGBC rating** : Targeting by 2022

Unit IV

Certification, recognition and achievements

Achievements

ISO 14001 & 45001

Corporate office, R&D and Manufacturing facilities are now IMS certified



CII EHS Excellence Awards 2019

Twin win - 5 star rating in EHS excellence and runner up in Pharma category



Bronze medal

Achieved score of 48, improvement from previous year



Golden Peacock

Winner of Golden Peacock National Quality Award 2020



SCMPro forums IPLF Awards 2020

SCM shines with awards in Supply Risk & Supplier Relationship Management



CII- 21st National Energy Management Award 2020

Energy Efficient Unit-2020



CII EHS Excellence Awards 2020

5 star rating in EHS excellence in Pharma category



Golden Peacock

Winner of Golden Peacock Award - Training – 2021



Thank You

Mr. Surya Prakash
Corporate- Engineering
surya.p@sailife.com
Contact: +91-7675989710

Mr.T. Venu Gopal Chary
Energy Manager
venugopalchary.t@sailife.com
Contact: +91-6366537922

