Presentation - Olympia Technology Park





1. About Olympia Group



Background:

The **Olympia Group** was born out of the alliance of Two strong business houses – The **Khivraj Group** & **The MK Group**.

The Chennai-based renowned Khivraj Group, has over 5 decades of successful business history spanning various industries such as Real Estate, Automobile, Retail and Wind Power Generation Led by Mr. Ajit Kumar Chordia & Mr Bharat Kumar Chordia.

Mr Ajit Kumar Chordia, the Managing Director is also an Founding member of IGBC and actively involved in IGBC.

The MK Group Kolkata have an impressive track record of large-scale property development in several sectors of Real Estate - MSB Residential Apartments, Clubhouses and Shopping Malls among others represented by Mr Chandrakant Kankaria.





Mr. Ajit Kumar Chordia



Mr. Chandrakant Kankaria



Mr. Bharat Kumar Chordia

2. OTP Energy Consumption Overview

Energy Sources of Olympia Technology Park

TNEB GRID

WIND ENERGY







Energy Consumption Details for Past 3 Years



2022-23

15613892

7660782

23274674

Source of Energy		Units in KWh			ι	Jnits in KWh	
Source of Energy	2020-21	2021-22	2022-23		Description		
TNEB	1090435	618329	7431882			2020-21	2021-22
Diesel Generators	284610	117490	228900		Green Energy	17930836	16812940
Solar Energy	1475860	1552610	3351501		Non-Green Energy	1375045	735819
Wind Energy	16454976	15260330	12262391			1373013	, 33013
Total	19305881	17548759	23274674		Total	19305881	17548759



Note :

One of windmill was under breakdown during 2022-23.

Hence wind generation got affected and renewable energy usage was reduced in 2022-23

* Increase of Energy Consumption FY 2022-23 in the view of employees return back to office after COVID lock down

Energy Consumption FY 2022-23





3. OTP Specific Energy Consumption



Description	Units	2019 - 20	2020 - 21	2021 - 22	2022 - 23
Total Annual Energy Consumption	KWh	29379759	19305881	17548759	23274674
Built Up Area	Sq. M	181631	181631	181631	181631
Specific Electrical Energy Consumption	KWh / Sq.M	161.76	106.29	96.62	128.14



Year on Year Variation of Specific Energy Consumption



Description	2019 - 20	2020-21	2021-22	2022-23
Specific Energy Consumption	161.76	106.29	96.62	128.14
Variation		- 55.46	- 9.67	+ 31.52
Variation YOY in %		- 52.18%	-10.01%	+ 24.60%

Reasons for Variation in SEC :

 SEC Increased in 2022-23 due to Employees are returned to Office after COVID lock down. Hence there was a huge variation in Specific Energy Consumption when comparing with 2021-22 and 2020-21

4.Information on Competitors, National & Global Benchmark

EPI of Peer IT Parks Near to us :

SI.No	Competitor Name	SEC	
1	RMZ Milenia Business Park, Chennai	198	EPI B
2	DLF Cyber City , Chennai	130	
3	Ramanujam Intellion Park, Chennai	108	

National SEC Bench Mark (BEE):

LFT Bench Mark for Office Buildings				
Climate Zone	Less than 50% AC	More than 50% AC		
Warm & Humid	101	182		
Composite	85	179		
Hot & Dry	90	173		
Moderate	94	179		

- Office Building EPI depends upon multiple factors like climate zone, operating hours, occupancy trends etc..
- Olympia Tech Park Campus comes under mixed category. Combination of Office, Data labs, Food court & Amenities, Banks, ATM and GYM etc. with 95% Air conditioned space.
- Chennai comes under Warm & Humid Climate Zone and our campus comes under the category of more than 50 % Airconditioned area. Hence EPI Bench Mark as BEE - 182
- Our EPI FY 2022-23 128.14





Road Map for Further Improvement of SEC



- Implementation of EC Fan Systems for all AHU's .
- Automation of Basement Parking Area Lighting Systems.
- Implementation of Motion Sensors in Floor Lift Lobbies.

Major Encon Project Planned FY 2023-24

 Conversion of Existing AHU's into EC Fan Blower with PLC Controller for 117 Nos of AHU's available at site.

Project Cost – INR 48.75 Millions.

5. Energy Savings Projects Implemented in last 3 Years



Important Projects in 2020-21, 2021-22 & 2022-23

- > Conversion of DX AC Units into Chilled water operated CSU units in lobby area.
- > Installation of Auto Condenser Coil Cleaning System for 750 TR WCC Chiller -3 Nos.
- Conversion of PL light fittings into LED light fitting in various locations of Office Premises.

Year	No of Energy Saving Projects	Investments (in Million INR)	Energy Saving (in MWh)	Cost Savings (in Million INR)
2020 -21	3	1.63	135.49	1.22
2021 -22	4	4.39	362.24	2.89
2022 -23	3	2.52	204.25	1.79

6. Innovative Projects Implemented

SMS Alert for Fire Alarm System



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7. Utilisation of Renewable Energy Sources FY 22-23

Type of RE	Type of Energy	Onsite/Off site	Installed Capacity (MW)	Generation (Million Units)	% of Overall Electrical Energy
Solar PV	Electrical	Onsite	1.1	1.529	6.57 %
Solar PV	Electrical	Offsite	5	1.82	7.83 %
Wind	Electrical	Off site	13.85	12.86	52.69 %





RPO Obligation



<u>RPO Target fixed for Tamil Nadu</u>

RPO	Achiev	ed at	site

Year	Solar	Non – Solar	Total
2020-21	6.75 %	10.25%	17 %
2021-22	10.5 %	10.5%	21 %
2022-23	24.61 %		24.61 %

Year	Solar	Non – Solar	Total
2020-21	7.64 %	85.23 %	92.9%
2021-22	8.85 %	86.96 %	95.8%
2022-23	14.4 %	52.6 %	67.1 %

Reference Source

https://www.iexindia.com/





Renewable Energy Sources



Windmill Details – OFF Site

S.No	WEG HT SC NO	Capacity in MW	Location
1	79204721737	0.8	
2	59224760079	0.85	
3	59224760083	0.85	
4	79204720779	0.60	Theni,
5	79204720737	0.60	Tirunelveli,
6	79204720772	0.75	Udumalaipet.
7	79204720683	0.75	
8	79204720684	0.75	
9	39224340917	1.650	
10	79224723414	0.600	
11	79244700344	2.0	
12	79244700338	2.0	
13	79204721545	1.65	
	Total Capacity (in MW)	13.85	



Renewable Energy Sources



<u>Solar – Onsite</u>

S.No	Description	Capacity in MW	Location
1	Roof Top Solar	1.1	Olympia Tech Park, Guindy, Chennai – 32



<u>Solar – Offsite</u>

S.No	Description	Capacity in MW	Location
1	Ground Mounted Solar Plant	5	Kamudhi, Pasumpon District



8.GHG Emission and Indoor Air Quality



GHG Inventorisation

Voor	I	Energy Consu	Imption Deta	Ton of CO 2 Emission					
fear	TNEB	Wind	Solar	DG	Total	TNEB	DG	Total	
2020-21	1090435	16454976	1475860	284610	19305881	861.4	162.2	1023.7	
2021-22	618329	15260330	1552610	117490	17548759	488.5	67.0	555.4	
2022-23	7431882	12262391	3351501	228900	23274674	5871.2	130.5	6001.7	



8.GHG Emission and Indoor Air Quality



Action Taken for Control of Scope III Emission

EV Charger of 4 wheeler has been installed in our Tech Park at various locations to limit the CO2 Emission and encourage the Electric Vehicle Usage by employees.





9. BMS & Certification



Integrated Building Management System for Monitoring and Control.



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Integrated Building Management System for Monitoring and Control.

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DLYMPL		UB	VENTI	LATIO	N FAN	SUMM	ARY			-8				6
									HOME	AHU	PUMPS	UFT	EM	INTG. W
	ZONE NO	CO SENSOR-1	O SENSOR-2 CO	o sensor-j C	O SENSOR-4	HIGH SPEED COMMAND	LOW SPEED COMMAND							
	ZONE-1	0.8 ppm	10 ppm	0.3 ppm	0 6 ppm	OTE	OFF							
	ZONE-2	0.5 ppm	1.0 ppm	1.8 ppm	0.5 ppm	077	Off							
	ZONE-3	0.9 ppm	0 6 ppm	1.1 ppm)	0 6 ppm		Off							
	ZONE-4	05ppm	0 4 ppm	© 0 ppm	42 ppm		Off							
		JET FAN LOW SP	PEED CMD SET P	OINT	5.00									
	DISCRIPTION	EXH FAN-1	EXH FAN-2	EXH FAN-3	EXH FAN-4	EXH FAN-5	EXH FAN-6							
	EXHUST FAN CMD	017		OFF	OFF	OFF		1	LB VI	ENTILATIO	N FANS			
		EXHAUST FA	N CMD SET POIN	it 🚺 1	5.00									
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						-								

Implementation of IGBC Rating

IGBC Rating

Olympia Technology Park has obtained Platinum Certification in June -2020 from IGBC for existing building category. Now we applied for IGBC NetZero Rating System





10. NET ZERO Commitment



Net Zero Target

Olympia Tech Park has Registered with IGBC for NetZero Rating System - Energy, Water & Waste.

We have submitted the documents to IGBC for further review.

We expect to receive the IGBC NetZero Certification by end of OCT 2023

Project ID	Name	Rating System
IGBCNZ230051	Olympia Technology Park	Energy
IGBCNZWA2300016	Olympia Technology Park	Waste
IGBCNZWTR230013	Olympia Technology Park	Water



11. Other Relevant Information



USGBC LEED Certification for GOLD



Other Relevant Information



Excellent Energy Efficient Unit Award-2019



Excellent Energy Efficient Unit Award-2021

Excellent Energy Efficient Unit Award-2020

NATIONAL

ENERGY MANAGEMENT AWARD 2020

LYMPIA TEEN PARK PRIVATE LIMITER







Energy Efficient Unit Award-2022





Other Relevant Information



Postal Dept. has released the special cover with Olympia Tech Park image on 29.12.2006

Internation SECURATION DECENDED OF LASS TECHNOLOGY Ass Technology Ass



Best Green Building Award

Best HVAC Design Award





Girem Award was conferred upon Olympia Technology Park for the best green building in India -2009. Olympia Technology Park was awarded "The BRY AIR AWARDS 2008" for the "Best HVAC Design" and this award is in its 3rd year and considered as prestigious for it certifies excellence in Energy conservation & Innovative design in HVAC.





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