Sime Darby Property CFP 2020 Report

Summary & Key Findings for Carbon & Energy (1st Jan–31st Dec 2020)







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1.0 Executive Summary



- 1. This report presents the Scope 1 and Scope 2 carbon emissions results for Sime Darby Property (SDP) in the reporting period from 1st January to 31st December 2020, covering twenty- three (23) operating units across SDP's operations. The Carbon Inventory only includes operations that SDP has management control over.
- 2. Carbon management has been the key priority in Sime Darby Property since 2010. Under the Carbon Footprint Project (CFP), we track and monitor our carbon emissions (scope 1 and 2) as well as identify and implement key emissions reduction opportunities to achieve set reduction targets.
- 3. Overall carbon emissions for SDP is 38,452 tCO2-e* (absolute) and energy consumption (absolute) is 426,902.86 GJ.
- 4. The carbon emissions breakdown as follows:
 - Township Development -28,799.00 tCO2-e
 - Integrated Development- 2,146.84 tCO2-e
 - Leisure- 6,397.31 tCO2-e
 - Asset Management- 1,108.47 tCO2-e
- 5. The largest carbon emissions contributor in the business was Township Development at 74.9% of overall carbon emissions where they have the highest usage of diesel (heavy machinery) among the business segments.
- 6. The reduction of carbon emissions in purchased electricity by 26.1% at Leisure is mainly due to the MCO and reduced number of events.
- 7. Through completing this report Sime Darby Property has set total operational carbon emissions reduction targets (replacing intensity reduction targets) toward being operationally carbon negative by 2030.
- 8. The 2016 baseline is revised and restated in 2020 due to Exclusion (E) /Divestment (D) of several assets under Investment Management and Leisure from the 2019 inventory, where SDP does not have management control and/or no longer owned the assets.

* Figure assured by PWC

2.0 Background

2.1 Overview of Carbon Inventory



Details of Sime Darby Property Carbon Inventory 2020

Number of Townships & BUs covered	23
Location	Selangor, Kuala Lumpur, Negeri Sembilan and Johor
Business segment covered:	
Township Development	12
• Integrated Development	6
• Leisure (L)	3
• Asset Management (AM)	2

- 2. The list of twenty three (23) OUs is provided at Appendix 1.
- 3. The Assurance Report of carbon data is at Appendix 2.

2.0 Background

2.2 Scope for Carbon Inventory

SDP Carbon Map

SDP CFP covers scope 1 and scope 2 emissions. It presently exclude scope 3 emissions.

Note :

Scope 1	Direct carbon emissions from sources owned/managed by SD
Scope 2	Indirect carbon emissions from production of purchased electricity, heat or steam
Scope 3	Other indirect carbon emissions as a consequence of SD activities that occur from sources not owned or controlled by SD and embodied carbon emissions.



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3.0 Carbon Profile

3.1 Emissions by Business Segment FY2020

No	Business Segment	Total Carbon Emissions (tCO2-e)	% from total carbon emissions
1	Township Development	28,799.00	74.9
2	Integrated Development	2,146.84	5.6
3	Leisure	6,397.31	16.6
4	Asset Management	1,108.47	2.9

- Total Carbon Emissions FY 2020 is 38,452*
- The largest carbon emissions by business segment was Township Development, at 74.9% of overall carbon emissions. This was primarily from infrastructure works including earthworks.



^{*} Assured figure by PWC



3.2 Emissions by Business Segment and Scope

No	Business Segment	Scope 1 (73.3% of overall emissions) (tCO2-e)	Scope 2 (26.7% of overall emissions) (tCO2-e)	Total Carbon Emissions (tCO2-e)
1	Township Development	26,711.78	2,087.22	28,799.00
2	Leisure	764.17	5,633.14	6,397.31
3	Integrated Development	662.20	1,484.64	2,146.84
4	Asset Management	6.39	1,102.08	1,108.47

• Scope 1 emissions are the largest part of company emissions at 73.2% from overall carbon emissions.

- The scope 1 emissions comes from fuel use at townships from infrastructure works.
- Therefore, the company must focus on improving the efficiency of earthworks to reduced our carbon footprint toward our 2030 aspiration (carbon negative).
- The second highest contributor is from the Leisure segment due to high electricity consumption. Carbon reduction and savings can be achieved by focusing on improving energy use habits.

3.3 Emissions comparison 2019 vs 2020 by business segment

Unite	Performance (tCO2-e)			
Onits	2019	2020	%	
Sime Darby Property (Overall - Absolute)	35,801.36	38,451.62	† 7.4	
Township Development	21,787.22	28,799.00	† 32.2	
Leisure	9,014.76	6,397.31	29.0	
Integrated Development	3,637.41	2,146.84	41.0	
Asset Management	1,361.97	1,108.47	18.6	

- The emissions in 2020 were 7.4% higher than 2019.
- This was due to increased infrastructure (e.g., earthworks) at township developments. This is not unusual as new landbank is opened up every 2-4 years.
- Integrated and Leisure emissions reduced impacts of pandemic. They likely also had reduced revenue. Asset management
 reduction due to lower occupancy (less electricity use).



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3.4 Analysis emissions comparison 2019 vs 2020 by business segment



- Townships Development contributed largely in SDP carbon emissions (absolute) in 2020 with 74.9%. This is followed by Leisure (16.6%), Integrated Development (5.6%) and Asset Management (2.9%).
- Integrated Development, Leisure and Asset management show a reduction in carbon emissions (absolute) with 40.98%, 29.04% and 18.61% against previous year 2019. Townships Development shows an increment in their carbon emissions in 2020 due to earthworks activities.

3.5 Analysis by emissions source





Top 5 Emission Sources	Change from previous year (2019)
Purchased electricity	26.1%
Heavy machineries	14.7%
Transport	14.7%
Electricity generation	4 37.8%
Other Emissions	12.6%

Facts:

- Heavy machineries is the largest carbon emissions contributor by 47.2%. This is due to increased of diesel usage at Township Development especially at main infra work.
- For 2020 carbon emissions (absolute) has shown a reduction in purchased electricity by 26.1%
- The reduction of carbon emission in purchased electricity by 26.1% which is mainly due to the MCO and reduced events at Leisure.



3.6 Emissions by activity type



Facts:

- Infrastructure activity contributed largely in SDP carbon emissions (absolute) in 2020 with 58.8%. This is followed by Leisure & AM (19.5%), Constructions (15.5%) and Operations (6.2%).
- Constructions, Leisure & AM show a reduction in carbon emissions (absolute) with 23.0%, and 27.7% against previous year 2019.
- Infrastructure activity shows an increment in their carbon emissions in 2020 due to higher in fuel usage for machinery and transportations.



ENERGY

4.0 Energy Profile



4.1 Energy consumption comparison 2019 vs 2020 (comprises electricity, diesel, petrol, LPG and CNG)

Linita	Performance (GJ)			
Units	2019	2020	%	
Sime Darby Property (Overall)	349,525.09	427,180.26	† 22.2	
Township Development	262,159.10	368,097.10	<mark>↑</mark> 40.4	
Integrated Development	29,424.17	16,088.17	45.3	
Leisure	51,228.05	37,550.34	26.7	
Asset Management	6,713.73	5,44.65	↓ 18.9	

- All energy forms used by the company are expressed in GJ. Meaning energy profile is not just electricity.
- The energy consumption in 2020 were 22.22% higher than 2019.
- This was due to increased in fuel consumptions for heavy machinery and vehicles at township developments especially in infrastructure works.
- Integrated, Asset management and Leisure energy consumption reduced impacts of pandemic. They likely also had reduced revenue. Asset management reduction due to lower occupancy (less electricity use).



4.0 Energy Profile

4.2 Analysis by key energy consumption sources

Facts:

- Overall energy consumption (absolute) increased by 22.1% compared to previous year 2019.
- Fuel usage for heavy machinery at the construction sites consumed the highest energy in 2020, with an increase of 20.9% from previous year 2019. This is due to extensive of infra works in Property Development in 2020.
- Energy consumption from purchased electricity reduced in 2020. The reduction in purchased electricity may be resulted from MCO and reduced no of events at Leisure.





4.0 Energy Profile

4.3 Analysis of energy consumption by fuel type



Facts:

- Diesel remain as the highest fuel consumed in SDP by 97.5% of overall energy consumption. The higher diesel usage was mainly used by the heavy machinery in Townships and Integrated Development.
- Electricity usage decreased by 27.3%, contributing to lower electricity consumption during MCO as well as due to the implementation of energy efficiency projects within the operations.

Moving Forward



- 1. Investigate the relevant and need to include vegetation related clearance emissions into CFP (consult PWC).
- 2. Carbon reduction program will be focused on property development (Infra), the highest contributor for carbon emissions.
- 3. The other area of carbon emissions reduction focus moving forward will be Leisure.
- 4. The revised baseline applied is 43,097 tCO2-e (absolute) per 2020 revision.
- 5. This report will outline whether or not and to what degree the carbon reduction target is achieved from our long term strategy year by year. The target for 2020 was to revise the baseline.
- 6. Company are in the early stages of preparing a proposal to management to participate in SBTi.



Thank you





APPENDICES



1.2 Revised Baseline 2016

1. The rationale for the new baseline are due to guidance based on the GHG Protocol, where the baseline emissions shall be recalculated if there are significant changes to the structure of the organisation, changes in methodology, or improvements in accuracy. (Source : GHG Protocol guidelines, chapter 5:Tracking emission over time, page 35);

a. Exclusion (E) /Divestment (D) of assets under Investment Management and Leisure & Hospitality from the 2019 inventory, where SDP does not have management control and/or no longer owned the

assets.			
Investment Management	Category	Leisure	Category
Wisma Sime Darby	E	Darby Park Executive Suites, Singapore	D
Sime Darby Pavillion	E	Darby Park Serviced Residences, Margaret River, Australia	D
160 Dundee Street, UK	E	Karri Valley Resort, Australia	D
		Darby Park Serviced Residence, Vung Tao, Vietnam	E

- a. Based on 2016, the total area size for Leisure & Hospitality (778,512.91m2) and 2019 (71,136.00m2). The difference is about 90.8% (707,376.91m2) due to divestment, exclusion and partly reported data is incorrect for area size (IGCC).
- b. Inclusion of Infra land area size into the total area (FY2017: 3,921,526.00m2; FY2018: 1,831,505.27m2; FY2019: 8,911,801.99m2).
- 2. Therefore, due to the above changes:
 - a. SDP is considering to use single denominator for intensity (area size-m2) for all operational eco-efficiency targets.
 - b. The current carbon intensity based on revenue denominator (tCO2-e/RM Mil of Revenue) may not reflect actual operational carbon emissions, under certain economic situation. To further verify, SDP will continue monitor the revenue denominator (tCO2-e/RM Mil of Revenue) for year 2020.
 - c. Carbon and Energy
 - i. The 2016 baseline of carbon intensity (19.57 tCO2-e /RM Mil of Revenue) and energy intensity (189.22 GJ/RM Mil of Revenue) will be no longer valid starting FY2020.
 - ii. The new SDP carbon and energy intensity baselines will be based on 2 denominators:
 - 15.15 tCO2-e /RM million of revenue (carbon intensity)
 - 0.0074 tCO2-e /m2 (carbon intensity)
 - 152.18 GJ/RM million of revenue (energy intensity)
 - 0.0741 GJ/m2 (energy intensity)
 - Note:

The major changes in Carbon and Energy Restated Intensities compare to the 2016 Intensities is due to the Exclusion / Divestment of assets, and inclusion of Infra land area size, as per stated in 1(b) and
1(c) respectively.

REVISED CARBON INTENSITY BASELINE AND TARGET (tCO2-e/RM MIL OF REVENUE)



REVISED CARBON INTENSITY BASELINE AND TARGET (tCO2-e/M2)







REVISED ENERGY INTENSITY BASELINE AND TARGET (GJ/RM MIL OF REVENUE)



NEW ENERGY INTENSITY BASELINE AND TARGET (GJ/M2)





Table 2: Site Data					APPEND
			Site Data	Site Data	
	No.	OU Nam e	Business Unit	Country	
	1	Elmina East (BO)	Property Development (Building Ope	1 Malaysia	
	2	Elmina West (BO)	Property Development (Building Ope	ı Malaysia	
	3	Denai Alam (BO)	Property Development (Building Ope	1 Malaysia	
	4	Bandar Bukit Raja (BO)	Property Development (Building Ope	1 Malaysia	
	5	Bandar Ainsdale (BO)	Property Development (Building Ope	1 Malaysia	
	6	Nilai Impian (BO)	Property Development (Building Ope	1 Malaysia	
	7	Bandar Universiti Pagoh (BO)	Property Development (Building Ope	1 Malaysia	
	8	Serenia (BO)	Property Development (Building Ope	ı Malaysia	
	9	KLGC Resort (BO)	Property Development (Building Ope	1 Malaysia	
	10	Ara Damansara (BO)	Property Development (Building Ope	ı Malaysia	
	11	KL East (BO)	Property Development (Building Ope	1 Malaysia	
	12	Planters Haven (BO)	Property Development (Building Ope	ı Malaysia	
	13	Putra Heights (BO)	Property Development (Building Ope	ı Malaysia	
	14	Taman Pasir Putih (BO)	Property Development (Building Ope	ı Malaysia	
	15	Elmina East (B)	Property Development (Building)	Malaysia	
	16	Elmina West (B)	Property Development (Building)	Malaysia	
	17	Bukit Jelutong (B)	Property Development (Building)	Malaysia	
	18	Bandar Bukit Raja (B)	Property Development (Building)	Malaysia	
	19	Bandar Ainsdale (B)	Property Development (Building)	Malaysia	
	20	Nilai Impian (B)	Property Development (Building)	Malaysia	
	21	Bandar Universiti Pagoh (B)	Property Development (Building)	Malaysia	
	22	Serenia (B)	Property Development (Building)	Malaysia	
	23	Ara Damansara (B)	Property Development (Building)	Malaysia	
	24	Putra Heights (B)	Property Development (Building)	Malaysia	
	25	SJCC (B)	Property Development (Building)	Malaysia	
	26	Glades (B)	Property Development (Building)	Malaysia	
	27	Elmina West (I)	Property Development (Infra)	Malaysia	
	28	Bandar Bukit Raja (I)	Property Development (Infra)	Malaysia	
	29	Nilai Impian (I)	Property Development (Infra)	Malaysia	
	30	Bandar Universiti Pagoh (I)	Property Development (Infra)	Malaysia	
	31	Serenia (I)	Property Development (Infra)	Malaysia	
	32	Kota Elmina (I)	Property Development (Infra)	Malaysia	
	33	KL East (I)	Property Development (Infra)	Malaysia	
	34	SDCC	Hospitality & Leisure	Malaysia	
	35	TPC KL	Hospitality & Leisure	Malaysia	
	36	IGCC	Hospitality & Leisure	Malaysia	
	37	Bayuemas Sports Complex	Asset Management	Malaysia	
	38	Oasis,Block G	Asset Management	Malaysia	
	39	SJCC (BO)	Property Development (Building Ope	1 Malaysia	

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Will insert final PWC report findings 2020