Reconciling Sustainability into Sustainable Business Strategy

Sharif James Zainal Aziz
Corporate Sustainability, SQM Department, Sime Darby Property
11 October 2017
SIME DARBY CORPORATE PROFILE - Summary
A global company headquartered in Kuala Lumpur, Malaysia

Incorporated in 1910 to develop 500 acres of rubber

Businesses in 25 countries and 4 territories

More than 120,000 global employees

Leader in sustainability

Operations segmented into 5 divisions
Our Global Footprint

Sime Darby Group is in more than 25 Countries & 4 Territories

Europe and Africa
- Germany
- Liberia
- South Africa
- The Netherlands
- United Kingdom

Americas
- United States of America

Asia Pacific
- Australia
- Brunei
- China
- Christmas Island
- Hong Kong SAR
- India
- Indonesia
- Japan
- Macau SAR
- Malaysia
- Maldives
- New Caledonia

- New Zealand
- Singapore
- Solomon Islands
- South Korea
- Sri Lanka
- Taiwan
- Thailand
- Pakistan
- Papua New Guinea
- Philippines
- Vietnam
SIME DARBY PROPERTY
CORPORATE OVERVIEW
5 Divisions

Missions

**Plantation**
To be a leading integrated global plantation company

**Industrial**
To be a high performance distributor of Caterpillar products and allied solutions

**Motors**
To be a leading automotive player in the Asia Pacific region

**Property**
To be the No.1 Sustainable Property Developer in Malaysia and Beyond

**Energy & Utilities**
Core business in power engineering services, ports & logistic and water management
Malaysia’s largest community developer with **over 23 townships in 40 years**, gross development value of **RM120 billion and 28,000 acres** of land bank.

An **established integrated property group with overseas presence**, focused on becoming the leading developer of **sustainable communities**, in line with Sime Darby’s brand positioning of developing sustainable futures.

Property related interests in **5 countries; Malaysia, Singapore, Vietnam, Australia and the United Kingdom.**
Our Property Development Business

**TOTAL DEVELOPABLE AREA (NET)**
28,000 ac

**DEVELOPABLE AREA (NET) CURRENTLY OWNED**
17,200 ac

---

**Our Active Townships**

- City of Elmina
- Serenia City
- Denai Alam
- ARA Damansara
- Bandar Ainsdale
- Nilai Impian
- Bukit Raja
- Bukit Jelutong
- bandar Universiti PagoH
- Putra Heights
- Saujana Impian

**High-rise / Integrated / JV Developments**

- Quarza Residences
- Seri Melawati
- Putra Residence
- Cantara
- Mahogany Park
- KL East
- Melawati Corporate Centre
- Chemara Hills
- Véo
- MM
- Salya
- Rimbun Sanctuary
- GLADES
- Radia
- Battersea Power Station
RECONCILING SUSTAINABILITY:

FROM UNDERSTANDING, TO VISION, TO STRATEGY, TO EXECUTION
Universal goals, applying to countries at all stages of development

- 12 SDGs directly relate
United Nations Framework Convention on Climate Change (UNFCCC)
- Adopted at the Rio Earth Summit in 1992
- Ratified by 196 States and 1 regional economic organization (197)
- Ratified by Malaysia in 1994
- Entered into force in 1994
- Purpose was for countries to work together to limit global warming and to cope with Climate Change impacts
- Commitments were only binding to Developed States
  - Lead to the Kyoto Protocol (the extension under the Doha Amendment about the end) and then the Paris Agreement (enters into force in 2020)

Paris Agreement
- Long term goal to limit global temperature increase to below 2°C and pursue 1.5°C
- Countries prepare comprehensive national climate action plans
- Malaysia has committed to 40% reduction of intensity against GDP (unconditional) and 45% reduction against GDP (conditional)

Climate Change-related Natural Hazards
- Becoming more frequent
- Becoming more extreme and unpredictable
- Climate patterns appear to be changing
- A great number of risks to humanity and the planet’s ecosystems due to CC
Key trends for future consideration

- Climate mitigation & adaptation
- Population growth
- Land use pressures
- Rising energy prices
- Changing homeowner expectations
- Changing tenant expectations
- Changing consumer attitudes
- Decreasing housing affordability
- Increasing connectivity & transparency

Matters to be considered by developers and Policy Makers

- “Global Warming” (the Greenhouse effect)
- “Ocean Acidification” (more carbon in oceans)
- Now this year Scientists have noted another global phenomena – “Stilling” (atmospheric stilling)
- What do these all mean?
  - Human activity – our anthropogenic impact is global
OUR VISION

To be the No.1 Sustainable Property Developer in Malaysia and Beyond
OUR PURPOSE

NATION BUILDING
We’ve made strides in Green Building Innovation and R&D

A quick summary of our Green Buildings!
SIME DARBY IDEA HOUSE

Awareness through guided tours
Patent
Publications
Awards & Certification

1. Branding & value enhancement
2. Roll out initiatives
3. Adoption of Features

Translated into:

Innovation Blueprint & Roadmap 5 years Roll out Plan

Idea House Features Roll-out
50 sustainable features from Idea House were identified and adopted in SDP’s products.
**SIME DARBY**

Green Certified Projects

- **Plantation Corporate Tower, Ara Damansara**
- **Property Corporate Tower, Ara Damansara**
- **Mosque, Ara Damansara**
- **Cantara Residences, Ara Damansara**
- **Quarza Residences, KL East**
- **Jendela Residences, Alya**

- LEED for Core and Shell Gold (2012)
- LEED for Core and Shell Silver (2012)
- GBI Gold (2013)
- Target GBI Gold
- Target BCA Green Mark Certified
- Target BCA Green Mark Certified

- **LEED** – Leadership in Energy and Environmental Design (US)
- **BCA Green Mark** – Building & Construction Authority Green Accreditor Singapore
- **GBI** – Green Building Index Malaysia
SIME DARBY PROPERTY

Green Projects

**The Glades (The Residences), Putra Heights**
- SEA Property Awards 2012
  - Best Villa Development (Malaysia)

**Seri Pilmoor Residences, Ara Damansara**
- SEA Property Awards 2013
  - Best Villa Development (Malaysia)
- PAM Award 2013
  - Multiple Residential, Low Rise Category

**Battersea Power Station, UK**
- International Emirates Glass
  - Leading European Architecture Forum (LEAF) Award 2015
  - Developer of the Year
SIME DARBY PROPERTY

Collaboration with Building Sector Energy Efficiency Project (BSEEP) to Improve Energy Efficiency in Residential Projects

ELMINA WEST,
Phase EV1
341 units
To be completed in 2018

ELMINA WEST,
Phase EV2
309 units
To be completed in 2018

ELMINA EAST,
Phase EV6
80 units
To be completed in 2019
In effect, a fully functioning self-sufficient urban ecosystem
Sustainability at Sime Darby Property

- Making it relevant to property development
Sime Darby Property Strategic Sustainability Framework

- **Sets intent aligned to the Vision**
- **Provides core focus**
- **Taken to heart – corporate culture**
- **Sustainability interpretation of core values**
- **Triple bottom line (balance)**
- **Steps in maturity - excelling in sustainability**
- **Accountability**
- **Instruments to embed sustainability**

**Sustainability Goal**
Pursue Sustainability in a Way that Creates Value to the Organisation

**Corporate Core Values**
Integrity, Respect & Responsibility, Enterprise, Excellence

**Sustainability Beliefs**
Disclose, Engage, Enhance, Protect, Empower, Respect

**Sustainability Purpose**
Contribute to a Better Society, Minimise Environmental Harm, Deliver Sustainable Development

**ROADMAPS**

**KPIs**

**TOOLS/TEMPLATES**

**Planning township - BLUEPRINTS**
(10 – 25 years)

**Sustainable Development Goals**
(17 SDGs) & Governance
Contribute to a Better Society

Optimise Environmental Performance

Deliver Sustainable Development

Engage, Empower, Respect, Disclose, Enhance, Protect

Sustainability Purpose, Focus & Approach

Traditional Model to ours

Note: also integrates elements of CSR Models
Translating Model Into Practice - Communities
(including Low Carbon)

People/Society
- Urban Gardening Schemes
- YSA
- Leftover Food Project – SDCC for Orphans
- Rising Star Juniors – TPC, CSR

Planet/Environment
- **Green Buildings**
- IUCN, ERT Tree Program – Selangor Living Collection at CoE, ERT Guide
- BSEEP EE Grant from UNEP via JKR
- Community Recycling Scheme – 6 months BBR
- Water conservation fittings, green cert.
- Landscape Plans, Carbon Sequestration Project
  - In planning phase
- Palm Oil Biomass pelleting – circular economy

Prosperity
- Upcycling - BBR
- PRIME Program
- Community Development Program
  - (improving livelihood)
## Sustainability Programs – 2009-2017 Journey

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustainability Blueprint &amp; Goals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group Sustainability Report</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Footprint Project</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sustainability Index (SUSDEX)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tree-to-tree Project &amp; Program</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISO50001 Energy Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sustainability Culture Assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sustainability Visibility Program</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young Sustainability Ambassador (YSA) Programme</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sustainability Performance Index (SPI) Scorecard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property Sustainability Report</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water &amp; Waste Mgmt. Program</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sustainability Marketing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Rights Program</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biodiversity Program</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*’I’LL ELABORATE ON SOME OF THESE’*
# Sustainability Score KPI Base Targets

<table>
<thead>
<tr>
<th>Sustainability Score (1.0) – sub KPIs</th>
<th>Target for Base Score (3)</th>
<th>Remarks for FY17/18</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 SUSDEX</td>
<td>Average Score between 75 - 77.5%</td>
<td>Average score covering OD, MD and ND township developments</td>
</tr>
<tr>
<td>2.1 Carbon PD – Infra Works</td>
<td>96.19 tCO₂-e/RM mil of contract value</td>
<td>10% of 2022 5% carbon Intensity reduction target</td>
</tr>
<tr>
<td>2.2 Carbon PD – Construction Works</td>
<td>11.18 tCO₂-e/ RM mil of contract value Or 0.01897 tCO₂-e/m² of built up area</td>
<td>10% of 2022 5% carbon Intensity reduction target</td>
</tr>
<tr>
<td>2.3 Carbon Asset Management</td>
<td>0.01445 tCO₂-e/m² of built up area</td>
<td>10% of 2022 5% carbon Intensity reduction target</td>
</tr>
<tr>
<td>2.4 Carbon H&amp;L</td>
<td>0.0173 tCO₂-e/m² of built up area</td>
<td>10% of 2022 5% carbon Intensity reduction target</td>
</tr>
<tr>
<td>3.1 Water – Property Development</td>
<td>257.942 m³/RM mil of contract value Or 0.731 m³/m² of built up area</td>
<td>10% of 2022 10% water Intensity reduction target</td>
</tr>
<tr>
<td>3.2 Water – Asset Management</td>
<td>0.5695 m³/m² of built up area</td>
<td>10% of 2022 10% water Intensity reduction target</td>
</tr>
<tr>
<td>3.3 Water – H&amp;L</td>
<td>3.9008 m³/RM mil of revenue</td>
<td>10% of 2022 10% water Intensity reduction target</td>
</tr>
<tr>
<td>4.1 Waste PD – Infra Works</td>
<td>1,776.23 kg/RM mil of contract value</td>
<td>10% of 2022 10% water Intensity reduction target</td>
</tr>
<tr>
<td>4.2 Waste PD – Construction</td>
<td>7,116.24 kg/RM mil of contract Or 15.99 kg/m² of Built Up Area</td>
<td>10% of 2022 10% water Intensity reduction target</td>
</tr>
<tr>
<td>4.3 Waste – H&amp;L</td>
<td>2.218 kg/capita Or 13.98 kg/RM mil of revenue</td>
<td>10% of 2022 10% water Intensity reduction target</td>
</tr>
<tr>
<td>4.4 Waste – Asset Management</td>
<td>0.723 kg/m² of Built Up Area</td>
<td>10% of 2022 10% water Intensity reduction target</td>
</tr>
<tr>
<td>5.1 Biodiversity</td>
<td>1,000 IUCN Red List Trees planted by Property Development</td>
<td>20,000 additional IUCN Red List Native Trees Planted by 2022. Baseline is 17,846 IUCN Tree planted as of Dec 2016.</td>
</tr>
</tbody>
</table>
SUSDEXPlus Documentation Review Structure (70%)

- Documentation Review 70% of Score
- Calibration Site Visit 30% of Score

**FRAMEWORK**

- Based on GRI, GBI, LEED, Greenmark & CPTED
- 3 spheres, 12 categories, 37 aspects, 85 indicators. Breakdown:
  - **Prosperity** – 30 indicators
  - **Planet** – 25 indicators
  - **People** – 30 indicators

**Development Life Span**

Applicable for Township starting from vision plan to hand-over.

**OD/MD RATINGS**

- 50% – 65% : SUSDEX-rated
- >65 – 75% : Silver-rated
- >75% - 85%: Gold-rated
- >85% : Platinum-rated

**ND RATINGS**

- 50% – 65% : Provisional SUSDEX-rated
- >65 – 75% : Provisional Silver-rated
- >75% - 85%: Provisional Gold-rated
- >85% : Provisional Platinum-rated

Note: ND Townships are assigned an actual and a forecast score.
<table>
<thead>
<tr>
<th>Sphere</th>
<th>Category</th>
<th>Aspect</th>
<th>SDGs</th>
<th>No. of Indicators</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prosperity</td>
<td>1. Direct &amp; Indirect GDV</td>
<td>1. Economic Performance</td>
<td>G8</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Monetary Benefit</td>
<td>G8</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Risk Management</td>
<td>3. EES Risk</td>
<td>G13</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Economic Risk Management Strategy</td>
<td>G9</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. Local Economic Impact</td>
<td>5. Procurement Practices</td>
<td>G12</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. Market Presence</td>
<td>G8</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. Public Infrastructure</td>
<td>G11, G9</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8. Urban Economy</td>
<td>G8</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10. Supply Chain Network Planning &amp; Management</td>
<td>G12</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11. Stakeholder Management</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13. Regulatory &amp; Compliance</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>14. Customer Privacy</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15. Product Quality</td>
<td>G9</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>17. Carbon &amp; Energy Factors</td>
<td>G7</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>18. Water</td>
<td>G6</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>22. Labour Management</td>
<td>G8</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>23. Occupational Health &amp; Safety</td>
<td>G3</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24. Training &amp; Education</td>
<td>G8</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>25. Equal Remuneration for Women and Men</td>
<td>G5, G10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>26. Labour Practices and Grievance Mechanism</td>
<td>G8</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>28. Anti-Corruption</td>
<td>G16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>29. Anti-Competitive Behaviour/Competition Law</td>
<td>G16</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30. Compliance</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>31. Crime Prevention Through Environmental Design</td>
<td>G11</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>32. Product Stewardship</td>
<td>G11</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>33. Physical Mobility Access</td>
<td>G11</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>35. Non-Discrimination</td>
<td>G10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>36. Child Labour</td>
<td>G10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>37. Security Practices</td>
<td>G16</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Overall**  
37 Aspects  
14/17  
85 Indicators
**Indicator’s Intent**
This indicator measures Township performance on profit before interest and tax (PBIT) and Gross Profit Margin. A strong financial performance will ensure sustainability of the company.

**Submitter**
Township

**Potential Evidence**
1. Approved GPM by Mgt.
3. Township Profitability SDPB Approved Budget

**Scoring Criteria**
As stated in table above.

Note:
1. Base GPM for townships is X%.
2. % is based on criteria sets in Township Development Status Report developed by PMO.
**Indicator’s Intent**
Energy intensity expresses the energy required per unit of activity, output, or any other organization-specific metric. An organization’s ability to use energy efficiently can be revealed by its reductions in energy consumption. Energy consumption has a direct effect on the environmental footprint of the organization, its operational costs, and exposure to fluctuations in energy supply and prices.

**Submitter**
Township

**Potential Evidence**
1. Carbon footprint data
2. List of action plans to reduce carbon and energy intensity

**Scoring Criteria**
As stated in table above
**Indicator’s Intent**

This indicator encourages a moral and regulatory approach to ensuring that product stewardship places a high priority on ensuring our Townships are recognised as leaders in fire safety mitigation and avoidance.

**Submitter**

Township
Product Development & Innovation
SQM

**Potential Evidence**

Project proposal

**Scoring Criteria**

Score(s) is awarded for adoption/provision of ANY health & safety elements below:

1. Bomba Certification
2. Fire Extinguisher
3. Evacuation Plan
4. Smoke Detectors
5. Fire retardant building material
6. Fire Safety Certification (to check if such certification exist)
7. Certified wiring or fittings by SIRIM or equivalent
8. Product safety audit by ESH
9. CCC

**Interpretation**

There is no tolerance for building and selling products where fire safety could be a concern or be compromised. This indicator is purposefully separate from product stewardship due to the potential for significant adverse outcome if fire safety standard and principals are not sufficiently integrated into all product design, construction and maintenance. This indicator is structured intentionally to be applicable to all products. This indicator exclude galleries and operation offices. Products are defined as residential, commercial and industrial buildings.
**SUSDEXPlus Calibration Site Visit (30%)**

**OVERVIEW**

- **Method:** On-site inspection
- Every active township after the documentation review.
- **Range of score:** 0 - 3
- **11 categories, 32 aspects, 44 indicators.**
- **Covers whole Township e.g. select completed phases (handed over) & construction phases.**
- **A necessary check and balance to verify documentation review findings.**
- **Only applies to OD & MD townships.**

*Overview of site visit categories*
• Year on year scoring improvement (±4.82% of improvement)
• Average score across the Division is 79.2%
• Planning townships also get assessed and given a provisional rating.
Operational Eco-Efficiency Programme

Carbon Management
- Aims to set a carbon baseline, track and monitor SDP carbon emissions, and identify and execute key emissions reduction opportunities in SDP.
- Provides an account of a SDP’s carbon emissions, i.e. quantity and breakdown of emissions by source and type.

Waste Management
- Aims to track and monitor operational waste, and to identify and execute tangible waste reduction opportunities.
- Waste Management Programme comprises of 2 main activities, which are:
  - Monthly waste generation tracking and monitoring
  - Waste reduction initiative

Water Management
- Aims to track and monitor operational water use, and identify and execute tangible and operationally-beneficial methods to reduce the use of water.
- Current focus is on potable water consumption.
Eco-Efficiency Programme – Carbon, Water & Waste

Overall Water Consumption Pattern (m³) FY16/17

- Property Development: 38%
- Asset Management: 26%
- Hospitality & Leisure: 36%

Property Division - Waste Contributors FY16/17

- Domestic Waste (Aiv) Site: 64%
- Construction Waste (Ai) Site: 8%
- Food Waste (Aii) Site: 28%

Emissions Breakdown by Key Sources, tCO2-e - FY16/17

- Purchased electricity: 56%
- Heavy machineries: 24%
- Transport: 12%
- Others: 8%

Property Division Overall (tCO2-e/ 100 m² built up area)

- 2009: 1.38
- 2010: 1.64
- 2011: 1.12
- 2012: 1.64
- 2013: 2.14
- 2014: 1.62

Emission intensity tCO2-e/ 100 m²

- Blue line: Emission intensity tCO2-e/ 100 m²
- Orange line: Target
Biodiversity Conservation

Published Tool - Threatened Tree Guideline by SDP

Key Summary

• Culmination of 6-7 years R&D – a practitioners tool

• Contributors includes, experts in the field, UPM, ILAM, FRIM and more.

• Covers I.D and Environmental Requirements of 74 IUCN and FRIM Red List Tree Species for planting in urban environments.

• Available FOC online at: SDP, FRIM, ILAM, UPM, TRCRC, LM, YSD
Biodiversity Conservation

Tree-to-tree project

Key Summary
• Tracking of all tree planting since 2011 with focus also on IUCN Red List Trees (ERT Trees)
• 18,300 plus ERT Trees planted across 14 townships
• Target an additional 20,000 by 2022
• Why?
  • Adds value to urban landscapes/townships in many ways
  • Urban landscapes provide a seed repository for these species and opportunity for ERT Conservation
  • Supports Malaysia’s commitment to CBD and The National Policy On Biodiversity 2016-2025
  • Contributes to an urban landscape carbon sink (carbon sequestration)

No. of ERT Trees Planted
(2011-Aug 2017)
Young Sustainability Ambassador Programme

Engaging the Future Generation about Sustainability

Key Summary
• Began in March 2013 with 100 members – over 600
• Based on experiential (out of class room) learning model
• Teaching sustainability living
• Members 7 – 17 years old
• Members from our staff and from our townships
• Frequent event collaboration with institutions, e.g., Bank Negara, FRIM, NGOs
• About 30 events to date

Junior Culinary Challenge at Putra Heights

Biodiversity Site Visit

Visit to Orphanage

Sleeping with the Sharks
City of Elmina – a new standard in sustainable community development

Select elements overview
DESIGNED, PLANNED AND DEVELOPED AROUND 8 WELLNESS PRINCIPLES
• SVC is a Special Area Plan envisioned and approved by MPFN in 2007.

• DASH highway will further improve accessibility.

• MRT is in the vicinity.

• SVC will be the next sought after development growth corridor.
150,000 Population in City of Elmina

36,600 Homes
300 acres of Elmina City Centre
210,000 projected job creation
20 mil total sqft of GFA

42 Acres Wellness Cluster
27,200 projected job creation
3.5 mil total sqft of GFA
Education
Primary School 11
Secondary School 5
Integrated School 6
Education Hub 1
Library 1

Amenities
Community Hall & Kindergarten 26
Sports Complex 4
Community Centre 8
Mosque 6
Surau 14
Religious Land 7
Football Field 6
Cemetery 2

Connectivity
TOD (Transit Oriented Development) 1
90km cycling and jogging track

Health
Hospital 1
Health Clinics 3
Wellness Cluster 1

Security
Balai Polis 3
Balai Bomba 3
Integrated Operation Centre 1
Anxillury Police Centre 1
**CYCLING AND JOGGING TRACK**

**ELMINA CIRCUIT**

90 km

COMBINED JOGGING & CYCLING TRACK

**45 km**

(NEIGHBOURHOOD TRACK)

**INTRA-COMMUNITY** tracks connecting residents to local centres and facilities

**45 km**

(CITY-WIDE TRACK)

**INTER-COMMUNITY** tracks connecting the whole of City of Elmina
WATERWAYS IN ELMINA CENTRAL PARK

Flood Mitigation Measure

Q 1000 FLOOD EVENT

- **Open Space** will be used for flood mitigation measure

Q 100 FLOOD EVENT

- **Elmina River** will be used for flood mitigation measure

- **Landscape Ponds** will be used for flood mitigation measure

AFTER (Temporary Water Spillover)
2,700 acres of Tasik Subang Dam Forest Reserve
300 acres of Elmina Central Park
480 acres of local parks
3,480 acres green space in total
210,000 trees and many are Endangered, Rare & Threatened (ERT) species
Sime Darby Property together with
Tropical Rainforest Conservation & Research Centre and
Jabatan Perhutanan Hulu Selangor
COMMUNITY PARK, ELMINA 300 ACRE CENTRAL PARK
Elmina sales results:

<table>
<thead>
<tr>
<th>Product</th>
<th>Take up rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G6 - Tiana</td>
<td>100%</td>
</tr>
<tr>
<td>G3B - Viana</td>
<td>90%</td>
</tr>
<tr>
<td>EV3A (20x60)</td>
<td>94%</td>
</tr>
<tr>
<td>EV3B (22x75)</td>
<td>94%</td>
</tr>
<tr>
<td>EV3B (24x75)</td>
<td>82%</td>
</tr>
<tr>
<td>EV4A</td>
<td>99%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product</th>
<th>Take up rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV4B</td>
<td>98%</td>
</tr>
<tr>
<td>EV1A</td>
<td>95%</td>
</tr>
<tr>
<td>EV1B</td>
<td>97%</td>
</tr>
<tr>
<td>EV2A</td>
<td>98%</td>
</tr>
<tr>
<td>EV2B</td>
<td>92%</td>
</tr>
</tbody>
</table>

SUSTAINABILITY: “DOING THE RIGHT THINGS, FOR THE RIGHT REASONS”

Note: data regularly updated
Thank You

Contact:
Sharif James Zainal Aziz
Corporate Sustainability
Sustainability and Quality Management Department
Sime Darby Property Berhad (15631-P)
Tel: +603 7849-5000, DL: +603 7849-5350, Mob: +6 019-2811-481, Fax: +603 7849-5677