BACKGROUND

2017 Diesel Consumption
14,275,044 Liters

Site Operations 73.7%
Site Office Operations 19%
Site Equipment 4.8%
Transport 2.5%

CO2e Emissions
38257 Tons
Energy Optimization

Site Offices
Monthly Savings AED
17,200

CO2e Savings
171 Tons
Energy Optimization

Hybrid System
Energy Optimization
Site Operations

Diesel Consumed  987,153 L
Energy Generated  2,336,853 kWh
System Efficiency  2.37 kWh/L
Unit Price  1.05 AED/kWh

Diesel Consumed  1,239,235 L
Energy Generated  4,516,523 kWh
System Efficiency  3.64 kWh/L
Unit Price  0.94 AED/kWh

Monthly Savings
AED 138,000

CO2e Savings
1792 Tons
Circular Economy

Bionest

Savings on Sweet Water
AED 376,590

Savings on Waste Water
AED 278,956

Net Savings
AED 300,000

CO2e Savings
4.055 Tons

Net Savings
AED 301,296

Total Savings
AED 655,546

System Cost

Maintenance Cost

Set Up Cost

- AED 257,000
- AED 51,000
- AED 46,250
## Water Conservation

### Low Flow Fixtures

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Unit Cost (AED/Person/Day)</th>
<th>Savings (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec 17 - Feb 18</td>
<td>2.49</td>
<td>Baseline</td>
</tr>
<tr>
<td>Mar 18 - May 18</td>
<td>1.48</td>
<td>41%</td>
</tr>
<tr>
<td>Jun 18 - Aug 18</td>
<td>0.95</td>
<td>62%</td>
</tr>
</tbody>
</table>

**Monthly Savings**

AED 19,000

**CO2e Savings**

4.335 Tons
DIP 1 Camp

The UAE market is estimated to retrofit 30,000 buildings by 2030 accounting for approx. USD 8.17 Billion expenditure towards upscaling the energy and water efficiency of the building stock.

The ESCO Model

Annual Cost incurred on Building utilities
AED 2,784,836
BMS (Smart Metering)
CHWP Optimization
FCU Cooling Management
Lighting (Exterior & Interior)
FAHU Demand Control Ventilation

DIP 1 Camp

ECMs

Estimated 10 Years Savings
AED 4,135,000

Annual CO₂e Savings
536 Tons

Estimated 10 Years Savings
AED 4,135,000
Collaborations

World Green Building Council
Multiplex is the only Contractor which sits on the WGBC Advisory Board

Emirates Green Building Council
Multiplex ME is the only Contractor which sits on the board of the EGBC

Dubai Chamber of Commerce
Multiplex ME is invited for all Panel discussions

Emirates Environmental Group
Multiplex ME is involved in various Environmental Initiatives

Manufacturers / Suppliers

Gyproc
Styro
GreenBox
THANK YOU