

+ WE CARE Programme



Welfare, Environment, Caring, Safety, Green and Innovative.

WE CARE Programme -

- Top down Approach to manage Resources and Manpower.
- Bottom-to-Top Approach to start from this site and promote to entire company.

PMs + Site Agents

EOs + SOs + Engs

Frontlines

Entire Company

Site
SS B503





Air Pollution Controls – Circular Saw



Before

3 Layers (bags, tray & sheet) of barrier

❖ Prevention wind blow of sawdust

1. Bags



3. Impermeable sheets

2. Wooden tray



After



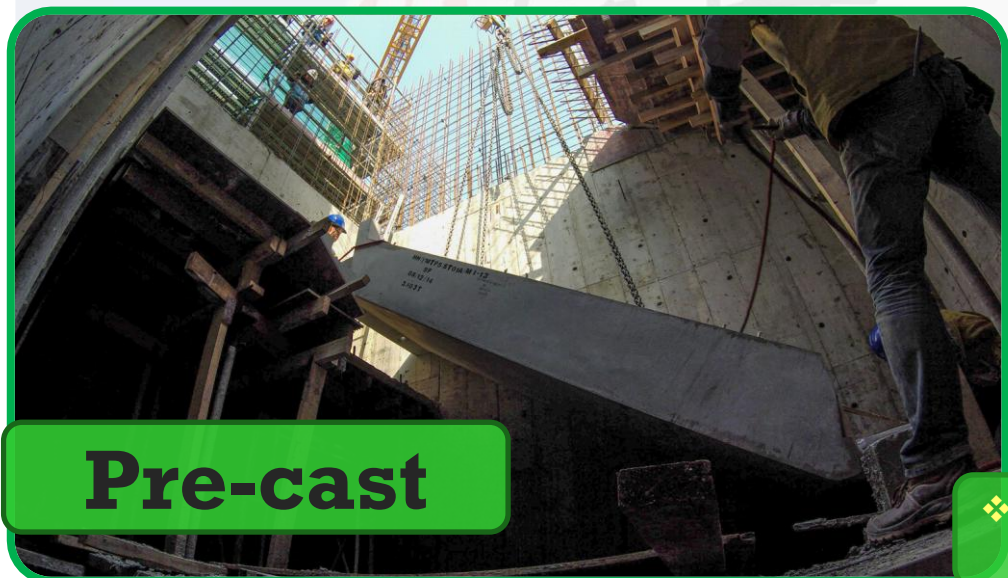
Metal Lift Shaft

Timber formworks saved = 2236 m²



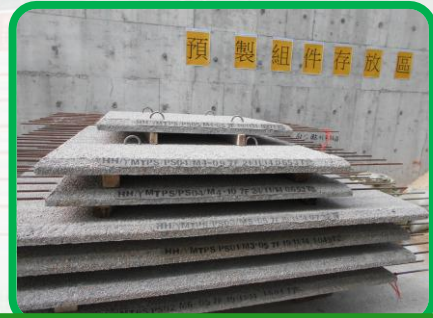
Metal Scaffold

Bamboo materials saved = 10,176m²



Pre-cast

❖ Project construction times and the impact on the local community reduced by over 50%





Rechargeable Portable LED Light

Energy Saving LED & T5 Temporary Lighting



- ❖ **LED > HID** floodlight save **~900kWh** per light each year*
- ❖ **T5 > T8** save **~80kWh** per light each year
- ❖ Alternative Lighting System – removal of over-illuminate light

Biodiesel



- ❖ Clean, low-carbon fuel
- ❖ Reuse of edible oils (waste cooking oils)

- ❖ $[\text{Sulphur}]_{\text{Biodiesel}} \ll [\text{Sulphur}]_{\text{ULSD}}$
- ❖ Sulphur Content lower than normal ULSD!!
- ❖ Carbon Emission lowest among other fuels

BONUS!!



Generator indicator

- ❖ Indicate the operating period
- ❖ Installed on ALL generators on-site





3M Water Saving Device



**Rainwater
Recycle System**



**Timer for Air
Conditioners**



**Motion Sensor
for Lighting**



Green Wall



**Energy Saving
Labels**

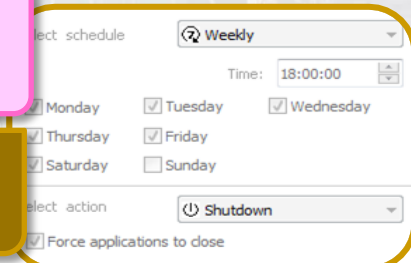


W E C A R E

Innovative Green Office

**Grade 1 Energy Labels
(Energy Saving Up to 35%)**

**Auto Switch-off for PCs
(Timer at 6pm)**





Solar Panel



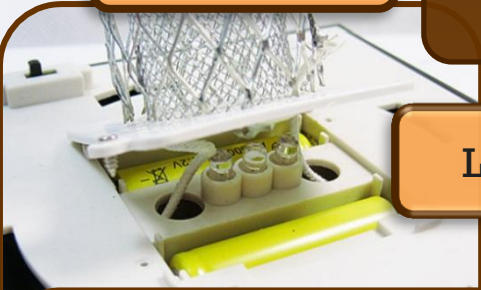
Solar Multi-Purposes Lamp



Solar Panel

Solar Traffic Light for Road Works

Solar Energy



LED Lamp

- No electricity
- Waterproof, Outdoor use
- 2 functions:
 - Mosquito tray; and
 - Lighting



Mosquito Lamp



Banner UP-cycle



× 20



× 18



- ❖ Up-cycle of plastic water bottles
- ❖ Use as sand bags
- ❖ Innovative



Water Bottles UP cycle Scheme

ISO 50001 Energy Management

- ❖ Self-initiative - Not ER requirement
- ❖ Regular review of the efficiencies of plants and devices
- ❖ Innovative for energy saving



Green Office
~70,000kg CO_{2e}



Plants
~5,400kg CO_{2e}



LED & T5
~50,000kg CO_{2e}



Biodiesel
~6,300kg CO_{2e}

1. Generator

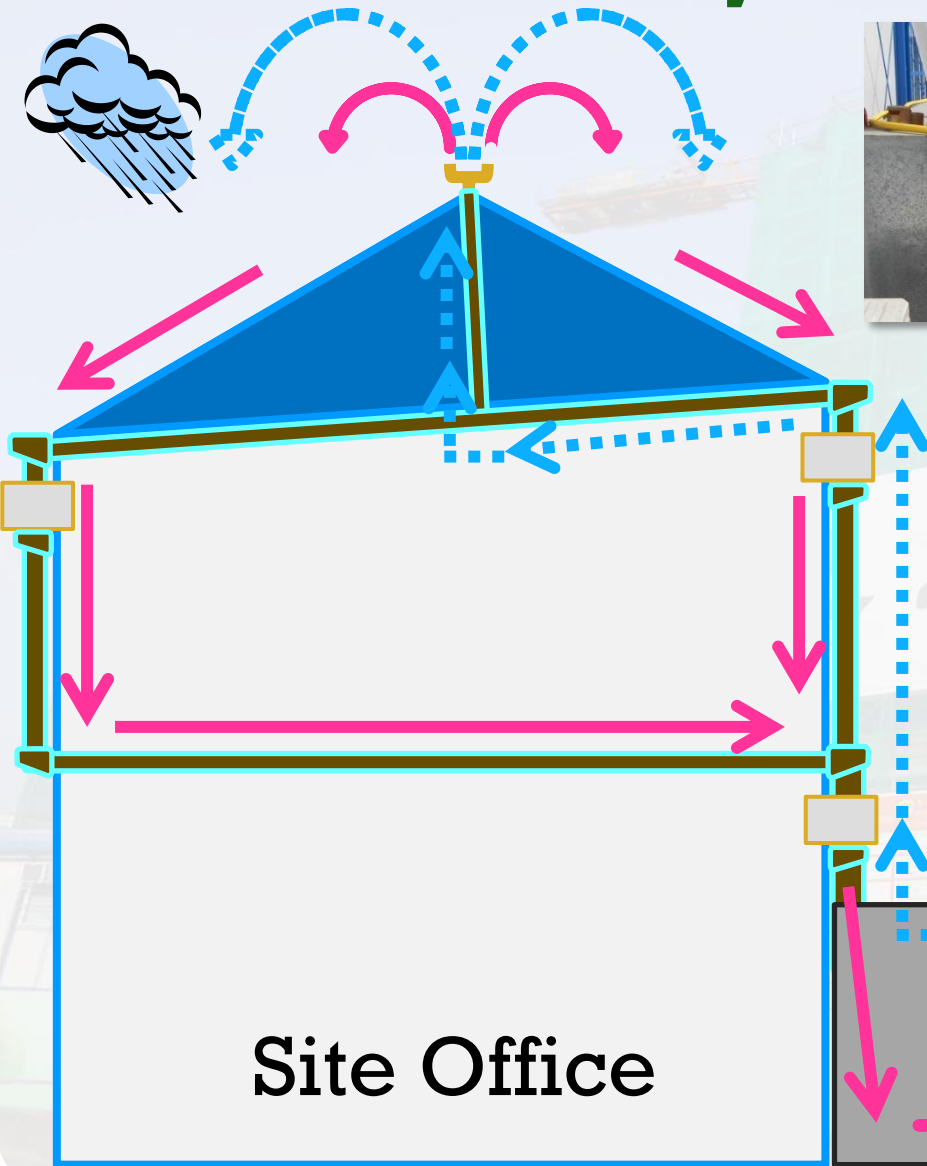
2. Tower Crane

Monthly Monitoring Energy usage of **SIGNIFICANT** plants








Total Energy Saved in 2014
~270,000 kg CO_{2e}



Rainwater Recycle System



Legends

-  Sprinklers
-  Site Office
-  Temporary Storage Tank
-  Temporary drainage
-  Air Conditioner
-  Water Collection Pathway
-  Water Reuse Pathway



Setup

- Daily (11:00 & 15:00)
- 15 minutes each section
- Two spankers

Benefit

- Reuse of rainwater (free of charge)
- Reduce energy consumption

Site Office