

## ENVIRONMENT, HEALTH AND SAFETY

### SUSTAINABILITY DEPARTMENT

#### CIRCULAR: EHS/GB/03/13

**TO :** All Business Units Of Dubai World, Their Clients , Green Building Consultants, Architectural & Engineering consultants, Contractors and relevant stakeholders

**SUBJECT :** REVISIONS to EHS Green Building Regulations

**DATE :** 11 March 2013

Greetings from Trakhees-EHS

Trakhees-EHS (Environment, Health and Safety), the Regulatory arm of PCFC (Ports, Customs and Free Zone Corporation -Dubai World, developed comprehensive Green Regulations in line with H.H. Sheikh Mohammed bin Rashid Al Maktoum Vice-President and Prime Minister of UAE and Ruler of Dubai directive of Green Dubai 2008. The Regulation developed initially was aligned to LEED guidelines with greater emphasis on sustainability criteria that were relevant to the region.

Trakhees-EHS has also in due course designed and developed “In-House Green Building Regulations” that were tailor made for certain types of developments. Green Building Regulations for Warehouses and Industrial Developments” and “Green Building Regulations for villas and Residential developments” fall under this category.

While the Regulation adequately reflected the pressing needs of this segment, there was a firm commitment on the part of EHS to subject them to constant introspection in the course of the Regulatory activities and incorporate necessary adjustments as deemed essential and appropriate in the larger interest of the sustainability of built environment. This involved careful scrutiny of several rudiments that include all of but not confined to technical challenges, clarity of the regulations, stakeholder’s understanding, compliance behavior and identification of potential gaps that may have to be filled for better acceptance. The outcome of such an exercise has resulted in minor revisions to its Green Building Regulations as described under

## GB 8.0 Green Building Regulations for Villas & Residential Development

S.No	Description	Changes / Modifications
1	Section A	This section comprising “Integrated Design Approach” and “Post Contract Briefing” has been added taking into consideration their importance.
2	Section B. Thermal Insulation	Table 1 Envelope section of the Annexure has been slightly modified to make it consistent with the envelope requirements for conditioned spaces in other regulations
3	Section B. No 12. Commissioning	A separate line item under the heading “Commissioning” has been added to specifically highlight the importance of a proper commissioning and handing over process in the operational sustainability of the villas.
4	Section C Use of Ozone friendly materials	The term “The use of R22 is discouraged “has been added for clarity.
5	Section D WATER “Water efficient landscaping and irrigation systems”	“Eliminate Potable water for Irrigation”. This has been added as a VOLUNTARY measure

## GB 4.0 and GB 5.0 (Green Building Regulation aligned to LEED)

S.No	Description	Changes / Modifications
1	Regulation GB 4.0 (Aligned to LEED v3) <b>Section 4.3.5 EA Credit 2:</b> <b>On-site Renewable Energy</b>	This credit was hitherto mandatory to the extent of achieving 1 credit (1%)  This credit will henceforth remain <u>voluntary</u> .  While the revisions reflect the EHS Mandatory credits, the current requirement that project should be able to achieve <u>certification at the minimum level</u> remains unchanged
	<b>Regulation GB 5.0</b> (Aligned to LEED v2.2) <b>Section 5.3.5 EA Credit 2:</b> <b>On-Site Renewable Energy</b>	This credit was hitherto mandatory to the extent of achieving 1 credit (2.5%)  This credit will henceforth remain <u>voluntary</u> .  While the revisions reflect the EHS Mandatory credits, the current requirement that project should be able to achieve <u>certification at the minimum level</u> remains unchanged

## Note

*Renewable energy is gaining global acceptance in view of the fact that it is clean and plays a significant role in reducing the Green House Gas (GHG) emissions from the built environment. Renewable energy is widely embedded into the energy mix of cities as it is a promising clean alternative.*

*This credit is being made non-mandatory taking into consideration that a strategy or a set of strategies on the renewable front may not culminate into the limits set forth by the requirement of the credit. This however should in no way be considered a deterrent to embracing renewables into a project. The use of Renewable technologies such as solar thermal, solar PV etc. is highly encouraged. The project team should endeavor to deploy suitable and genuine Renewable technologies as felt appropriate for the project notwithstanding the fact that this credit has now been made non-mandatory,*

The revised regulations can be downloaded from the “Green Building” section of the portal [www.ehss.ae](http://www.ehss.ae)

EHS-Trakhees is committed to providing quality technical services to our business units and clients in protecting the environment, human health and safety and as always, we look forward to your cooperation, support and contribution.

EHS is fully committed to sustainability of the built and operating environment and is more than willing to assist the stakeholders in their initiatives on existing buildings. Should you have any queries or require additional information/guidance, please do not hesitate to contact us. As always we look forward to your support and cooperation in our sincere pursuit.

Have a good day!

Regards,

**P.R.Jagannathan**

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Encl: Announcement Slides

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