



Green Building Regulation Implementation

Consultant/Contractor Confirmation

(To be submitted along with Drawings Applications for LV Design/Shop Drawing approval by DEWA)
Regulations Implementation Status Summary (related to Electrical Installations)

Sr. No.	Regulation		Implementation Proposal Status			
	Clause	Description	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable
1	502.03	Elevators and Escalators	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable
2	502.04	Lighting Power Density - Interior	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable
3	502.05	Lighting Power Density - Exterior	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable
4	502.06	Lighting Controls	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable
5	502.07	Electronic Ballasts	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable
6	503.03	Electricity Metering	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable
7	503.05	Central Control and Monitoring System	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable
8	504.01	On-site Renewable Energy Small to Medium Scale Embedded generators	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable
9	504.02	On-site Renewable Energy - Outdoor - Lighting	<input type="checkbox"/> Fully Implemented	<input type="checkbox"/> Not Implemented	<input type="checkbox"/> Partially Implemented	<input type="checkbox"/> Not Applicable

Note:- Attach the completed formats for each Regulation, which are fully or partially implemented in the submission

Consultant : _____

Signature : _____

Name: _____

Designation: _____

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Electrical Contractor: _____

Signature : _____

Name: _____

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Green Building Regulation Implementation Consultant/Contractor confirmation	
Project	:
Plot No.	: Area:
Owner	:
Project Details	:
Submission by	: Consultant <input type="checkbox"/> Electrical Contractor <input type="checkbox"/>

Clause - 502.03	Elevators and Escalators
Regulation	<p>For all new building</p> <p>A. Escalators - Escalators must be fitted with controls to reduce speed or to stop when no traffic is detected. Escalators shall be designed with energy savings features as described below:</p> <ol style="list-style-type: none"> 1. Reduced speed control: The escalator shall change to a slower speed when no activity has been detected for a period of a maximum of three (3) minutes. Detection shall be by photocell activation at the top and bottom landing areas. 2. Use on demand: The escalator shall shut down when no activity has been detected for a period of a maximum of fifteen (15) minutes. Use on demand escalators must be designed with energy efficient soft start technology. The escalator shall start automatically when required; the activation shall be by photocells installed in the top and bottom landing areas. <p>B. Elevators (lifts) - Elevators (lifts) must be provided with controls to reduce the energy demand. To meet this requirement, the following features must be incorporated in traction drive elevators:</p> <ol style="list-style-type: none"> 1. Use of AC Variable-Voltage and Variable-Frequency (VVVF) drives on non-hydraulic elevators 2. Energy efficient lighting inside the elevator including controls to turn lights off when the elevator has been inactive for a period of a maximum of five (5) minutes

Implementation status	A)-Escalator	
	No of Escalators	_____ Nos
	Total Connected load	_____ KW
	<u>Confirmation(1):Use on demand:</u> Clause 502.03.A1	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	<u>Confirmation(2):Use on demand:</u> Clause 502.03.A2	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

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B)-Elevators(Lifts)	
No of Elevators	_____ Nos
Total connected load	_____ KW
Confirmation(1) Clause 502.03.B1	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Confirmation(2): Clause 302.03.B2	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Remarks:

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Clause - 502.04	Lighting Power Density - Interior												
Regulation	<p>For all new building For new buildings, the average Lighting Power Density for the interior connected lighting load for specific building types must be no more than the watts per square metre of gross floor area given in Table 502.04 (1).</p> <p>Table 502.04(1) – Interior Lighting Power Density</p> <table border="1"> <thead> <tr> <th>Building Type</th> <th>Maximum average Watts per square metre (W/ m²) across total building area</th> </tr> </thead> <tbody> <tr> <td>Commercial/Public: Offices, Hotels, Resorts, Restaurants</td> <td>10</td> </tr> <tr> <td>Educational Facilities</td> <td>12</td> </tr> <tr> <td>Manufacturing Facility</td> <td>13</td> </tr> <tr> <td>Retail Outlets, Shopping Malls , Workshop</td> <td>14</td> </tr> <tr> <td>Warehouses</td> <td>8</td> </tr> </tbody> </table> <p>Lighting Power Densities for building types not listed in Table 502.04 (1) should be no greater than those values given in ASHRAE 90.1-2007 Table 9.5.1.or equivalent as approved by DEWA</p>	Building Type	Maximum average Watts per square metre (W/ m ²) across total building area	Commercial/Public: Offices, Hotels, Resorts, Restaurants	10	Educational Facilities	12	Manufacturing Facility	13	Retail Outlets, Shopping Malls , Workshop	14	Warehouses	8
	Building Type	Maximum average Watts per square metre (W/ m ²) across total building area											
Commercial/Public: Offices, Hotels, Resorts, Restaurants	10												
Educational Facilities	12												
Manufacturing Facility	13												
Retail Outlets, Shopping Malls , Workshop	14												
Warehouses	8												

If Yes(Applicable) Confirmations								
Premise identification/Classification	Applicable		Floor area	No of light fitting proposed	Power consumption in watts	Total power consumption in watts	Actual LPD w/m ²	Reference value(LPD as per GB regulation- W/m ²)
	Yes	No						
Retail outlet/Shopping mall/Work shop								14
Manufacturing facility								13

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Educational facilities								12
Office/Hotel/ Resorts/Restaurant								10
Ware houses								8
Total lighting load =								
Floor area =								
Overall LPD =								

Remarks:

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Submission by	: Consultant <input type="checkbox"/> Electrical Contractor <input type="checkbox"/>

Clause 502.05	Lighting Power Density - Exterior																						
Regulation	<p>For all new buildings, the average Lighting Power Density for the exterior connected lighting load must be no more than the values given in Table 502.05 (1).</p> <p style="text-align: center;">Table 502.05(1) – Building Exterior Lighting Power Density</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th style="width: 60%;">Building Area</th> <th style="width: 40%;">Maximum Watts per square metre or linear metre</th> </tr> </thead> <tbody> <tr> <td>Uncovered parking lots and drives</td> <td>1.6 W/m²</td> </tr> <tr> <td>Walkways less than 3 metres wide</td> <td>3.3 W/linear metre</td> </tr> <tr> <td>Walkways 3 metres wide or greater</td> <td>2.2 W/m²</td> </tr> <tr> <td>Outdoor Stairways</td> <td>10.8 W/m²</td> </tr> <tr> <td>Main entries</td> <td>98 W/linear metre of door width</td> </tr> <tr> <td>Other doors</td> <td>66 W/linear meter of door width</td> </tr> <tr> <td>Open sales areas (including vehicle sales lots)</td> <td>5.4 W/m²</td> </tr> <tr> <td>Building Facades</td> <td>2.2 W/m² for each illuminated wall or surface or 16.4 W/linear metre for each illuminated wall or surface length</td> </tr> <tr> <td>Entrances and gatehouse inspection stations at guarded facilities</td> <td>13.5 W/m²</td> </tr> <tr> <td>Drive-up windows at fast food restaurants</td> <td>400 W per drive-through</td> </tr> </tbody> </table> <p>Lighting Power Densities for exterior areas not listed in Table 502.05 (1) should be no greater than those values given in ASHRAE 90.1-2007 Table 9.4.5 or equivalent as approved by DEWA.</p>	Building Area	Maximum Watts per square metre or linear metre	Uncovered parking lots and drives	1.6 W/m ²	Walkways less than 3 metres wide	3.3 W/linear metre	Walkways 3 metres wide or greater	2.2 W/m ²	Outdoor Stairways	10.8 W/m ²	Main entries	98 W/linear metre of door width	Other doors	66 W/linear meter of door width	Open sales areas (including vehicle sales lots)	5.4 W/m ²	Building Facades	2.2 W/m ² for each illuminated wall or surface or 16.4 W/linear metre for each illuminated wall or surface length	Entrances and gatehouse inspection stations at guarded facilities	13.5 W/m ²	Drive-up windows at fast food restaurants	400 W per drive-through
Building Area	Maximum Watts per square metre or linear metre																						
Uncovered parking lots and drives	1.6 W/m ²																						
Walkways less than 3 metres wide	3.3 W/linear metre																						
Walkways 3 metres wide or greater	2.2 W/m ²																						
Outdoor Stairways	10.8 W/m ²																						
Main entries	98 W/linear metre of door width																						
Other doors	66 W/linear meter of door width																						
Open sales areas (including vehicle sales lots)	5.4 W/m ²																						
Building Facades	2.2 W/m ² for each illuminated wall or surface or 16.4 W/linear metre for each illuminated wall or surface length																						
Entrances and gatehouse inspection stations at guarded facilities	13.5 W/m ²																						
Drive-up windows at fast food restaurants	400 W per drive-through																						

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If yes(Applicable) Confirmations							
Building area	Applicable		Actual LPD as per the design				Reference value(LPD as per GB regulation w/m ² /linear meter)
	Yes	No	Area	No of light fitting proposed	Power consumption in watts	Total power consumption in watts	
Uncovered parking lot/area							
Walk ways less than 3 meter wide							3.3 w/linear meter
Walk ways 3 meter wide or greater							2.2 w/m ²
Out door stair ways							10.8 w/m ²
Main entries							98 w/linear meter of door width
Other doors							66 w/linear meter of door width
Open sales area							5.4 w/m ²
Building facades							2.2 watts/m ² for each illuminated wall or surface or 16.4 w/linear meter of each illuminated wall or surface length.
Entrances and gate house inspection at guarded facilities							13.5 w/m ²
Drive-up windows at fast food restaurants							400 watts per drive through

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Submission by :	Consultant <input type="checkbox"/> Electrical Contractor <input type="checkbox"/>

Clause 502.06	Lighting Controls
Regulation	<p>For all new buildings other than villas and industrial buildings:</p> <p>a) Occupant Lighting Controls must be provided so as to allow lighting to be switched off when daylight levels are adequate or when spaces are unoccupied and to allow occupants control over lighting levels.</p> <p>b) Common areas which are not regularly occupied, such as corridors and lobbies, should reduce lighting levels to no more than twenty five percent (25%) of normal when unoccupied.</p> <p>c) It is recommended (optional) that, in offices, the artificial lighting in spaces within six (6) meters in depth from exterior windows must be fitted with lighting controls incorporating photocell sensors capable of adjusting the level of electric lighting to supplement natural daylight only when required. The combined artificial and daylight must provide an illumination level at the working plane between four hundred (400) and five hundred (500) lux. When there is a hundred percent (100%) daylight, the lux levels may exceed five hundred (500) lux.</p> <p>d) In offices and education facilities all lighting zones must be fitted with occupant sensor controls capable of switching the electrical lights on and off, according to occupancy unless lighting is required for safety purposes</p> <p>e) In offices, if the average design lighting power density is less than six (6) Watts per square meter of gross floor area (GFA), the control requirements of parts C and D of this regulation need not apply</p>

Implementation status	<u>Confirmation(a)</u> : clause 502.06.a	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	<u>Confirmation(b)</u> : clause 502.06.b	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	<u>Confirmation(c)</u> : clause 502.06.c	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

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	Confirmation(d): Clause 502.06.d	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	Confirmation(e): Clause 502.06.e	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

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Clause - 502.07	Electronic Ballasts	
Regulation	<p>For all new buildings, and for new light fittings in existing building high frequency electronic ballasts must be used with fluorescent lights and metal halide of 150 W and less.</p> <p>High frequency electronic ballasts must be labeled as conforming to an international standard approved by the DEWA / Dubai Municipality</p>	
Implementation status	<u>Confirmation-1</u> : clause 502.07.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

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Plot No.	:	Area:
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Submission by	:	Consultant <input type="checkbox"/> Electrical Contractor <input type="checkbox"/>

Clause - 503.03	Electricity Metering
Regulation	<p>For all new buildings, meters must be fitted to measure and record electricity demand and consumption of the facility as a whole and to provide accurate records of consumption,</p> <p>A. For all buildings with a cooling load of at least one (1) megawatt (MW) or gross floor area of 5,000 sq. metre or greater , additional electrical sub-metering (of tariff class accuracy) must be installed to record demand and consumption data for each major energy-consuming system in the building. At a minimum, all major energy consuming systems with a load of hundred (100) kilowatts (kW) or greater must be sub-metered.</p> <p>B. The building operator shall be responsible for recording details of the energy consumption for the building and ensuring that major electricity uses are sub-metered. Records must be kept for five years.</p> <p>C. Each individual tenancy in the building must have a sub-meter installed when a building tariff meter is not present. These sub-meters should only be for demand management and electricity cost allocation purposes.</p> <p>D. Where a Building Management System (BMS) or Central Control and Monitoring System (CCMS) is installed, metering must be connected to allow real-time profiling and management of energy consumption.</p> <p>E. All meters must be capable of remote data access and must have data logging capability and complying with DEWA specifications. All meters should be approved by DEWA.</p> <p>F. Virtual meters using run-hours are not acceptable as sub-meters.</p>

Implementation status		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
	Confirmation(1): clause 503.03.A			
	Confirmation(2): clause 503.03.B			

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	Confirmation(3): clause 503.03.C	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
	Confirmation(4) clause 503.03.D	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
	Confirmation(5): clause 503.03.E	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA

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Project	:	
Plot No.	:	Area:
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Submission by	:	Consultant <input type="checkbox"/> Electrical Contractor <input type="checkbox"/>

Clause - 503.05	Central Control and Monitoring System
Regulation	<p>For all new buildings with a cooling load of one (1) megawatt (MW) or gross floor area of 5,000 sq.M or greater, the building must have a central control and monitoring system capable of ensuring that the building's technical systems operate as designed and as required during all operating conditions, and that the system provides full control and monitoring of system operations, as well as diagnostic reporting.</p> <p>At a minimum, the system must control the chiller plant, heating, ventilation and air conditioning (HVAC) equipment, record energy and water consumption and monitor and record the performance of these items</p>

Implementation status	Total cooling load	-----MW
	Gross floor area	-----m ²
	Confirmation(1) : clause 503.05	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Remarks:

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Clause - 504.01	On-site Renewable Energy Small to Medium Scale Embedded Generators
Regulation	<p>For all new buildings:-</p> <p>Where a building incorporates on-site generation of electricity from small or medium scale embedded generators using renewable energy sources; the equipment, installation and maintenance of the system must:-</p> <p>A. Be stand-alone (off-grid) and therefore not connected to the Dubai Electricity and Water Authority (DEWA) electricity supply to the building:</p> <p style="text-align: center;">Or</p> <p>B. .</p> <p>a) For installations up to sixteen (16) Amps per phase, single or multiphase, 230/400 Volts AC: conform in all respects to Energy Networks Association, Engineering Recommendation G83/1</p> <p style="text-align: center;">Or</p> <p>b) For installations which have a rating greater than sixteen (16) Amps per phase and where the connection is to be made to systems at, or below, twenty (20) kV, and where the output of the generating plant does not exceed 5MW: conform in all respects to Energy Networks Association, Engineering Recommendation G59/1</p> <p>The District Network Operator (DNO) will be DEWA. All on-site generation equipment and connections must be approved by and meet the requirements of DEWA for connection in parallel to their electricity supply</p>

Implementation status	<u>Confirmation (1) Clause 504.01A</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	<u>Confirmation (2) Clause 504.01B.a</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	<u>Confirmation (3) Clause 504.01.B.b</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	<u>Confirmation (4) Clause 504.01.C</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

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Project Details	:	
Submission by	:	Consultant <input type="checkbox"/> Electrical Contractor <input type="checkbox"/>

Clause - 504.02	On-Site Renewable Energy - Outdoor Lighting
Regulation	<p>For all new buildings:</p> <p>Where the light power density of external lighting exceeds that specified in Regulation 502.05, Lighting Power Density – Exterior, any additional lighting load must be powered entirely through renewable electricity sources such as photovoltaic systems.</p>

Actual lighting power density of external lighting	-----W/m ² or linear meter
Maximum limit as per GB regulation 502.05	----- W/m ² or linear meter
Renewable electricity source provided	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, Type of source	-----
Implementation status	<p><u>Confirmation(1):</u> Cclause 504.0201 .</p> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

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