

11.4.8 Planning development - new build standards

1. 明志所有新建築物均依內政部頒訂之綠建築標章申請審核認可及使用作業要點之規定進行建置

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Title:	Administrative Directions of Applying for Approval of Green Building and Building Energy-Efficiency Label Ch
Date:	2023.05.31
Legislative:	Formulated & published under Ministry of the Interior Order Tai-Nei-Jian-Yan-Tzu No. 0980850160 on Oct. 20, 2009 1. Full text amended & published under Ministry of the Interior Order Tai-Nei-Jian-Yan-Tzu No. 1010850132 on Mar. 1, 2012 2. Article 9 amended under Ministry of the Interior Order Tai-Nei-Jian-Yan-Tzu No. 1010851181 on Dec. 10, 2012 3. Articles 4 & 10 amended under Ministry of the Interior Order Tai-Nei-Jian-Yan-Tzu No. 1040850271 Apr. 1, 2015 4. Partial amendment under Ministry of the Interior Order Tai-Nei-Jian-Yan-Tzu No. 1060850366 Jun. 1, 2017 5. Articles 5 & 8 & 10 amended under Ministry of the Interior Order Tai-Nei-Jian-Yan-Tzu No. 1090850405 Apr. 22, 2020 6. Partial amendment under Ministry of the Interior Order Tai-Nei-Jian-Yan-Tzu No. 1100850013 Jan. 12, 2021 7. Partial amendment under Ministry of the Interior Order Tai-Nei-Jian-Yan-Tzu No. 1107638144 Dec. 2, 2021, Effective from Jan. 1, 2022 8. Full text and title amendment under Ministry of the Interior Order Tai-Nei-Jian-Yan-Tzu No. 1127638365 May 31, 2023
Content:	1. The Ministry of the Interior (hereinafter referred to as the MOI) has formulated the guidelines herein to encourage the adoption of green building of ecology, energy saving, waste reduction, and health, and in accordance with net zero transition, increase building energy efficiency so as to achieve a comfortable, healthy, and environmentally-friendly living environment. 2. Terminology and definition: (1) Green Building Label: The label certified by the MOI as in compliance with the green building indicators to a building that has obtained an occupancy permit, a building that has been recognized by the municipal government as legal, or a specific building or community has completed construction. (2) Green Building Candidate Certificate: The certificate certified by the MOI as in compliance with the green building indicators to a building that has obtained a building permit, a specific building still under construction, or an existing legal building or community. (3) Building Energy-Efficiency Label: The label certified by the MOI as in compliance with the Building Energy-Efficiency Rating to a building that has obtained an occupancy permit, a building that has been recognized by the municipal government as legal, or a specific building has completed construction. (4) Building Energy-Efficiency Candidate Certificate: The certificate certified by the MOI as in compliance with the Building Energy-Efficiency Rating to a building that has obtained a building permit, a specific building still under construction, or an existing legal building. (5) Applicant: The building developer, owner, occupant, managing agency, or the management committee or manager stipulated under the Condominium Administration Act Building Administration Division. (6) Designer: The architect who has designed the building.

<https://glrs.moi.gov.tw/EngLawContent.aspx?lan=E&id=714>

2. 2024 年起興建產學研發大樓，該建築採用智慧建築設計，預計於 2027 年完工並取得綠建築標章、智慧建築標章認證

一、綠建築設計說明

綠建築標章之推動在我國分候選綠建築證書與綠建築標章，綠建築標章為取得使用執照或既有合法建築物，合於綠建築評估指標標準頒授之獎章。候選綠建築證書則為鼓勵取得建造執照但尚未完工領取使用執照之新建建築物，凡規劃設計合於綠建築評估指標標準之建築物，即頒授候選綠建築證書，為一「準」綠建築之代表。本案為地下 2 層，地上 5 層廠房大樓，其綠建築規劃評估分別說明如下：

(一) 銀級綠建築

因本案將申請綠建築銀級標章，故於綠建築之十九項評估指標中，檢討綠化量、基地保水、日常節能、綠色交通、二氧化碳減量、廢棄物減量、水資源、污水垃圾改善、室內空氣品質管理、音環境、光環境、通風換氣環境、室內建材裝修等 13 項指標，依「綠建築解說與評估手冊」(2019 年版)訂定之分級評估方法評定以上綠建築檢討指標，各指標之詳細評估計算內容將於正式提出候選綠建築證書申請時，依「綠建築標章申請審核認可及使用作業要點」規定檢附申請所需資料向評定機構提出申請，並以評定會議之結果為準。本案分級評估總得分 $\Sigma rsi=63.72$ (實際得分依標章審查結果)，落點位於銀級。本案實際施工將符合綠建築標章分級評估之「銀級」標準。「綠建築評估資料總表」、「分級評估表」、「各項指標評估表」，及各項指標簡述如下：



綠建築標章
GREEN BUILDING
圖 1 綠建築標章標誌

表 1 EEW-HF 綠建築評估資料總表

一、建築名稱：財團法人明志科技大學新北市泰山區中山段 481-1 地號等 26 筆地號廠房新建工程

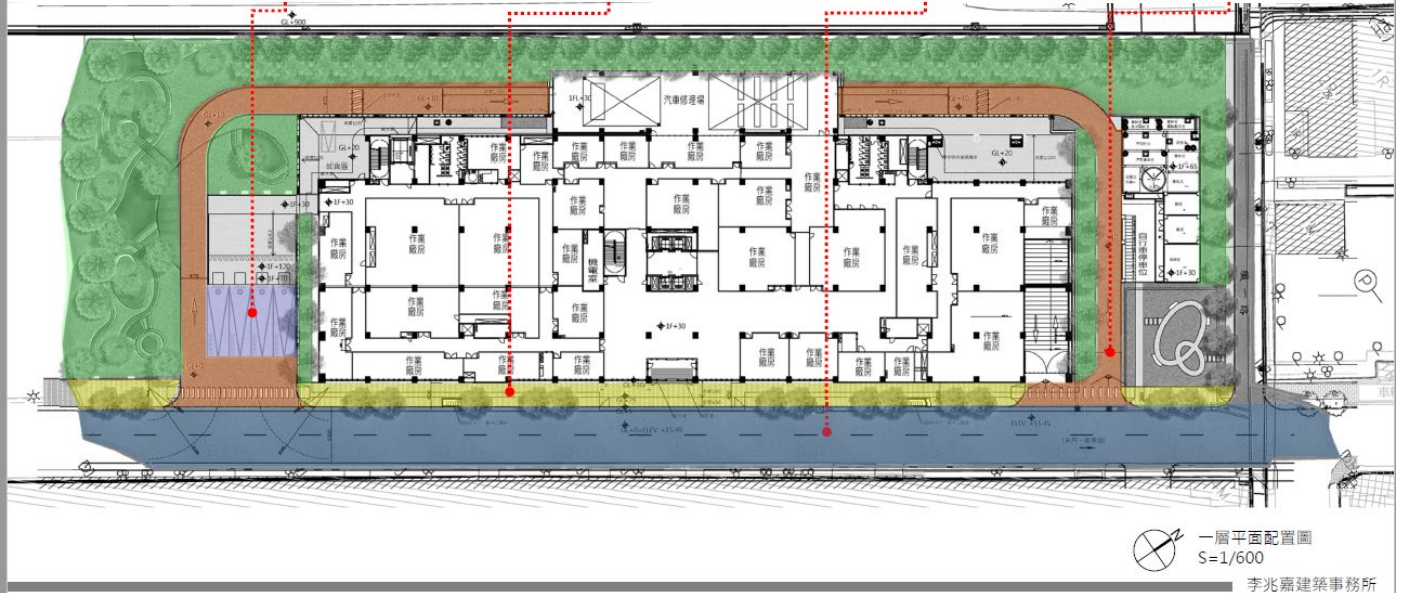
二、建物概要：地下 2 層，地上 5 層

三、評估結果：

申請項目	設計值	系統得分率 0.0 ≤ R ≤ 1.0	配分 W	得分 Ts = R × W	
綠化量	TCO= 7570.54	Rec1= 1.0	10	10.00	
基地保水	λ= 0.40	Rec2= 1.0	7	7.00	
日常節能	外牆節能 EEV= 0.25 EEVc= 0.20 EEV ≥ 0.20	Ren1= 0.25	18	9	2.25
	空調節能 EAC= 0.84 EACc= 0.90 EAC ≤ EACc	Ren2= 0.27	9	18	4.86
	照明節能 EL= 0.50 ELc= 1.00 EL ≤ ELc	Ren3= 1.00	8	8	8.00
	能源成本評估法 空調系統測試平衡 TAB	Ren4= 1.00 Ren5= 1.00	35	35	
	綠色交通 ΣR6= 0.70	Ren6= 0.70	3	3	2.10
	再生能源設施 Cn=	Ren7=	4	4	
	建築二氧化碳減量 CCO= 0.61	Rw1= 0.48	5	5	2.38
	營建廢棄物減量 Pl= 3.07	Rw2= 0.22	5	5	1.08
	水資源 WI= 8	Rw3= 1.00	5	5	5.00
	生活污水及垃圾 ΣGi= 14	Rw4= 0.60	3	3	1.80
室內空氣品質管理	CO 濃度監測 ΣRh11= 0.5	Rh1= 1.00	3	3	3.00
	CO2 濃度監測 ΣRh12= 0.5	Rh1= 1.00	3	3	3.00
音環境	A+B= 80	Rh2= 0.80	5	5	4.00
光環境	D+E+F= 65	Rh3= 0.65	5	5	3.25
通風換氣環境	G= 100	Rh4= 1.00	5	5	5.00
室內建材裝修	H+I+J+K+L+M+N +O= 80	Rh5= 0.80	5	5	4.00
創新技術	Rii=	Rii=	8	8	
系統總得分 Σ Ts = 63.72, (Σ S ≤ 100)					
四、綠建築標章分級評估級：					
綠建築標章等級	合格級	銅級	銀級	黃金級	鑽石級
非中央空調型廠房	27 < Ts ≤ 40	40 < Ts ≤ 48	48 < Ts ≤ 56	56 < Ts ≤ 68	68 < Ts
中央空調型廠房(註)	37 < Ts ≤ 50	50 < Ts ≤ 58	58 < Ts ≤ 66	66 < Ts ≤ 78	78 < Ts
綠建築標章等級判定	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

註：本表為初步規劃，未來以實際送審資料為主。

透水鋪面設計說明



(九) 水資源指標

1. 節水設計概要說明

- (1) 本案廠房單元浴廁全面採用具省水標章的兩段式馬桶(金級)。公共空間設置自動感應充便或有節水設計之小便器，供公眾使用之水栓採用具省水標章認證之自動感應水栓或自閉式水栓。



圖 4 採用具有省水標章認證之器具

2. 彌補措施規劃概要說明

- (1) 本案所有綠地設置節水澆灌系統，以節約用水。
- (2) 本案基地面積 16763.58 m^2 ，總樓地板面積大於 20000 m^2 ，故需額外設置大耗水彌補設施。
- (4) 本案設置草地面積>100 m^2 ，故額外設置大耗水彌補設施。
- (5) 本案無設置景觀水池面積<100 m^2 ，故不須設置大耗水彌補設施。
- (6) 本案有大耗水查核項目，且設置雨水利用系統一座。

3. 雨水利用設施檢討

- (1) 本案設置雨水利用系統一座，雨水收集地點為屋頂層、露臺等。
- (2) 本案位於新北市泰山區，依「綠建築解說與評估手冊」(2019 年版)，求得日平均降雨量 $R=4.97(\text{mm}/\text{日})$ ，儲水天數 $N_s=8.72$ 。
- (3) 雨水貯集槽位於筏基。
- (4) 雨水回收池實體容積 510 公尺。(雨水回收池)

4. 大耗水項目彌補措施評估

- (1) 本案設置草地面積>100 m^2 ，故額外設置大耗水彌補設施。
- (2) 本案因大規模開發，故需設置大號水項目。

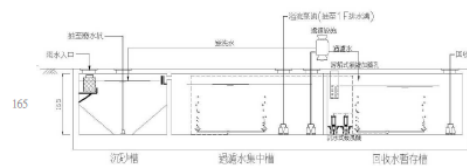


圖 5 雨水再利用設施平面及剖面示意圖

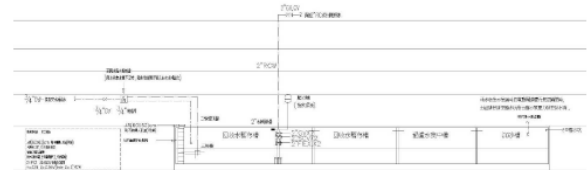


圖 6 雨水再利用設施系統圖