

7.2.2 Upgrade buildings to higher energy efficiency

1. Implemented ISO 50001 and received the certification 導入 ISO 50001 並取得認證



CERTIFICATO N.
CERTIFICATE N. 1228.2024

SI CERTIFICA CHE IL SISTEMA DI GESTIONE DELL'ENERGIA DI
WE HEREBY CERTIFY THAT THE ENERGY MANAGEMENT SYSTEM OPERATED BY

MING CHI UNIVERSITY OF TECHNOLOGY
明志科技大學

No. 84, Gongzhuan Rd., Taishan District, New Taipei City 243303, Taiwan (R.O.C.)
新北市泰山區工專路 84 號

SITI / SITES

No. 84, Gongzhuan Rd., Taishan District, New Taipei City 243303, Taiwan (R.O.C.)
新北市泰山區工專路 84 號

E' CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD

ISO 50001:2018

PER LE SEGUENTI ATTIVITA' / FOR THE FOLLOWING ACTIVITIES

Development and Application of Teaching, Education and
Research in University of Technology
科技大學教育與研究的發展及應用

IL PRESENTE CERTIFICATO E' DOGGIATO AL RISPETTO DEL
REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI DI GESTIONE
THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE
REQUIREMENTS OF THE RULES FOR CERTIFICATION OF MANAGEMENT SYSTEMS

DATE:	PRIMA CERTIFICAZIONE FIRST CERTIFICATION	EMISSIONE CORRENTE CURRENT ISSUE	SCADENZA EXPIRY
	2024-11-11	2024-11-11	2027-11-11

IMQ S.p.A. - VIA GUNTILANO, 43 - 20138 MILANO ITALY
Management System Division - Milano Office




MS IP 000595

La validità del certificato è subordinata a verifiche periodiche e a seguito di reclami o segnalazioni di non conformità.

CISQ is a member of



The International Certification Network
www.iqnet-certification.com



Building trust together.

Certificate

CISQ/IMQ has issued an IQNET recognized certificate that the organization:

MING CHI UNIVERSITY OF TECHNOLOGY

No. 84, Gongzhuan Rd., Taishan District, New Taipei City 243303, Taiwan (R.O.C.)

has implemented and maintains a
Energy Management System

for the following scope:

Development and Application of Teaching, Education
and Research in University of Technology

which fulfils the requirements of the following standard:

ISO 50001:2018

Issued on: 2024/11/11
Expires on: 2027/11/10

Registration Number: IT-149247-1228.2024



Alex Stoichitoiu
President of IQNET



Mario Romers
President of CISQ



This attestation is directly linked to the IQNET Member's original certificate and shall not be used as a stand-alone document.

IQNET Members:

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* The list of IQNET Members is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

<https://sustainability.mc.ut.edu.tw/var/file/65/1065/img/2153/139977200.pdf>

2. Served as a demonstration site for net-zero emissions by constructing the four-in-one intelligent microgrid system integrating “solar power, energy storage, charger and EMS” functions

置智慧為電網系統，透過「創能、儲能、節能、EMS」四合一系統，做為永續淨零碳排的示範場域



校園微電網計畫（太陽能、儲能、充電樁、EMS）

太陽光電

新建置一套30kWp的太陽光電系統

電動車充電樁

新建置電動車充電車位，包含快速直流充電樁 180KW *1 支、慢速交流充電樁 7KW*5 支。

儲能系統

新建置一套具有 100kw/200kwh 的鋰電池儲能系統

能源管理系統

新建置能源管理系統整合校園能源用電資訊、太陽光電系統資訊、充電樁管理系統資訊。



<https://2025netzero.my.canva.site/2025netzero/page-6>

<https://howlife.cna.com.tw/sdgs/20250925s001.aspx>

3. Continued to implement ISO 14001 environmental management system to regularly collect and track electricity and water consumption for the relevant units to formulate control measures
導入 ISO14001 環境管理系統，定期收集與追蹤用電、用水量給相關單位來制訂管制措施



<https://esh.mcut.edu.tw/p/412-1006-1309.php?Lang=zh-tw>

4. Installed the new 200 kWh energy storage unit which has accumulated the energy totaling 2,300 kWh so far
新建 200 kWh 儲能設備，現已累計 2,300 kWh

	
200 kWh	2,000 kWh
https://sustainability.mcut.edu.tw/p/406-1065-74398,r1709.php?Lang=en	

5. Installed 30 kWp solar panels on the pedestrian overpass, and an additional 548.6 kWp solar panels in 2025

於人行天橋設置 30 kWp 太陽能板；並於 2025 年新增建置太陽能板 548.6 kWp

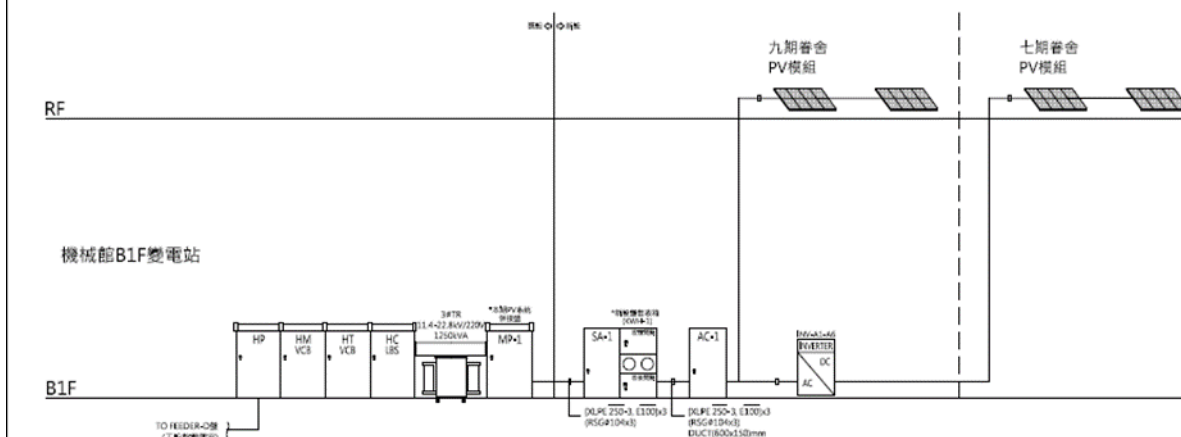


工程概要說明:

工程名稱: 明志科大七期宿舍、九期宿舍、華人書館、國庫學生宿舍及圖書大樓_太陽光發電系統工程
 配置地點: 新北市泰山區工專路84號(七期宿舍及九期宿舍頂樓)
 併接方式/電壓: 七期宿舍及九期宿舍連棟併聯高壓用戶-低壓內線系統(3相3線220V)
 主要用途: 太陽光發電
 本期配置發電設備容量: 313.92 kWp
 PV模組採用
 LONGi, LR5-72HPH-545M(545M) 共 576片
 變流器採用
 SolarEdge, SE100K-TW 共 6台

工程圖例說明:

符 號	器 具 名 稱	備 註
	配電盤	
	開刀開關	MS
	無熔絲開關	MSB
	直流隔離開關	DC switch
	直流保護線	FDSE
	交流保護器	TVSS



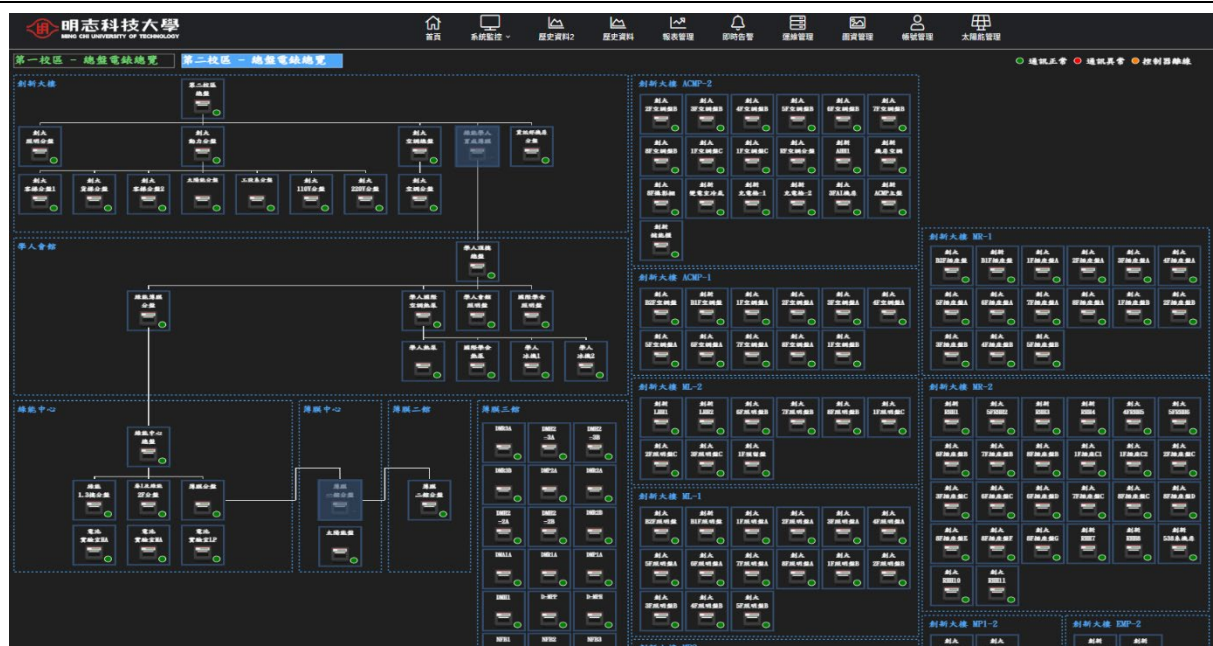
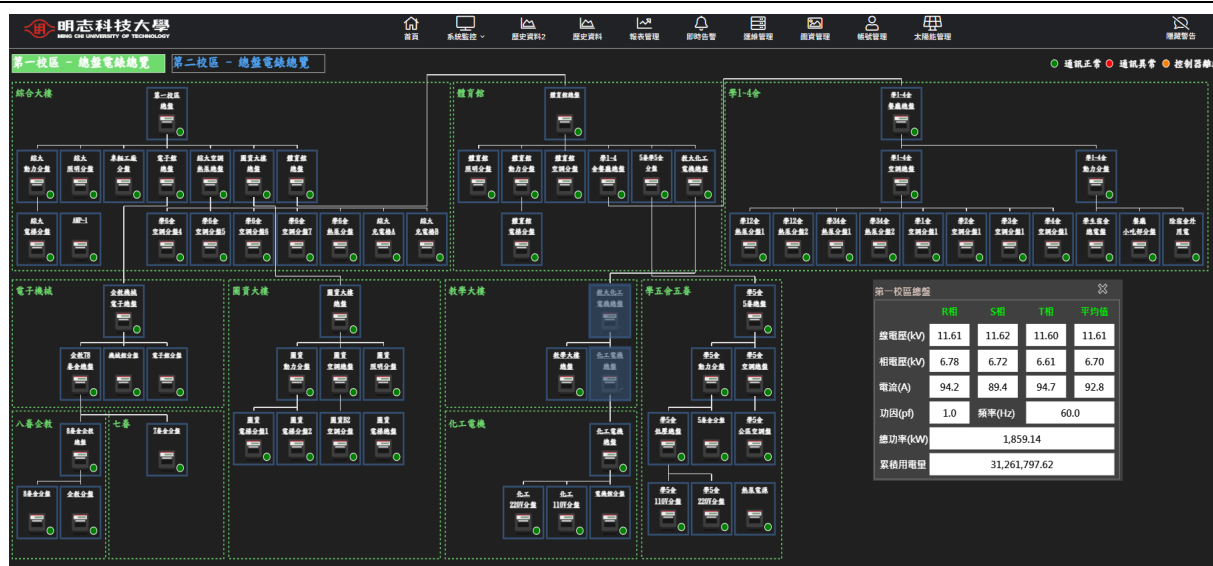
姓名	工種	說明	位置	樓層	區劃	設計	專業師	比例尺	NO.	優得電機工程顧問有限公司	工程名稱	明志科大圖書館資訊系統二設置點外	估價時間	單位
林建	建築師	繪圖	管理處	五樓	五樓	五樓	五樓	五樓	五樓	五樓	圖名	九龍會堂七期餐食外賣區	00506022	1-01



<https://2025netzero.my.canva.site/2025netzero/page-6>

<https://sustainability.mcut.edu.tw/var/file/65/1065/img/2153/711054538.pdf>

6. Installed 150 new smart meters, and has already installed 235 smart meters so far
建置 150 顆智慧電表，現已裝設 235 顆



五、裝設地點

工作項目	安裝位置說明
智慧型電表	一校區 教學大樓 RF: 2組迴路
	一校區 體育館 BIF: 1組迴路
	一校區 圖書大樓 BIF: 2組迴路
	一校區 綜合大樓 : 2組迴路
	一校區 七 / 九期宿舍 : 1組迴路
	二校區 薄膜三館 1F: 9組迴路
	薄膜三館 2F: 2組迴路
	薄膜三館 3F: 3組迴路
	薄膜一館 RF: 1組迴路
	綠能中心 RF: 3組迴路
	學人會館 RF: 1組迴路
	創新大樓 BIF
	創新大樓 ACMP-2: 19組迴路

	創新大樓 MP1-1: 3組迴路
	創新大樓 MP1-2: 2組迴路
	創新大樓1F 示範工廠 : 2組迴路
	創新大樓 VCB4: 1組迴路

冰水主機群組管理系統	冰水主機控制6台、監測18點位。
	冰水泵控制10台、監測30點位。
	冷卻水泵控制10台、監測30點位。
	冷卻水塔控制6台、監18測點位。
	區域泵控制10台、監測30點位。
	水管溫度，監控30點。
	水管流量，監控6點。
	水管壓差，監控8點。
	外氣溫溫度，監控2點。

<https://sustainability.mcut.edu.tw/var/file/65/1065/img/2153/581069762.pdf>

<https://sustainability.mcut.edu.tw/p/405-1065-74324,c10138.php?Lang=en>