



about us

We are a progressive independent multi-disciplinary consultancy that delivers energy-efficient and sustainable engineering, design solutions, and advisory services that best serve our clients and the well-being of their local communities.

Our expert team of designers, engineers and technical consultants are committed to providing you with solutions and services that remit tangible and quantifiable value throughout the lifecycle of your project.

Our proven track record and portfolio of projects ranges from new construction, intervention and policy and advisory services. No matter the sector, size or type of the built environment, we embrace your needs and complexity with our unique skillset, and promise to provide efficient, functional, future-proof solutions and sound technical advice that drives transformative outcomes.

our mission

To provide energy-efficient, progressive and functional engineering & design solutions for sustainable built environments



established in **2013**



35+ team members in 2021



certified

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018



Active on the local and regional boards of Governors/Directors of **ASHRAE** and **CIBSE**



Ex-board Member of **Emirates Green Building Council**

Our values reflect our true **work ethic, philosophy, and delivery** methods.



**complexity
simplified**



**conscious
delivery**



**social
impact**



**functional
excellence**



**sustainable
advantage**

our people



team certifications

PMI
Project
Management
Professionals

ASHRAE
Building Energy
Modeling
Professionals

ASHRAE
High-Performance
Building Design
Professionals

ASHRAE
Building
Commissioning
Professionals

ASHRAE
Building Energy
Assessment
Professionals

ASHRAE
Healthcare
Facility Design
Professionals

ASHRAE
Certified HVAC
Designers

ASHRAE
Operations &
Performance
Measurement
Professionals

AEE
Certified Energy
Managers

AEE
Certified Energy
Auditors

AEE
Certified Water
Efficiency
Auditors

EVO/AEE
Certified Measurement
and Verification
Professionals

USGBC
LEED AP Existing
Buildings

USGBC
LEED APs New
Construction

WELL AP
WELL
Accredited
Professionals

Estidama/UPC
Pearl Qualified
Professionals

BREEAM
BREEAM Assessor

certified trainers

> **ASHRAE Lecturers**

> **Certified CEM Trainers**

> **Certified CMVP Trainers**

> **Emirates GBC Course Facilitators**

> **PMP Trainers**

awards

2022

CIBSE Building Performance Awards- *shortlisted*

2021

CIBSE BPA Retrofit Project of the Year- AD DoE Pilot Retrofit Project
ITP Top 20 Middle East MEP Consultants

2020

AEE ME Energy Project of the Year- AD DoE Pilot Retrofit Project
CIBSE Building Performance Awards- *shortlisted*
ITP Top 20 Middle East MEP Consultants

2019

CIBSE Build2Perform- *shortlisted*
GITEX Energy Sustainability Champion
ITP Top 20 Middle East MEP Consultants

2018

Retrofit Tech Energy Consultant of the Year
ITP Top 20 Middle East MEP Consultants

2017

Retrofit Tech Energy Consultant of the year
ITP Top 20 Middle East MEP Consultants

2016

ITP Top 20 Middle East MEP Consultants

2014

ITP Middle East Boutique Consultancy of the Year



Energy Efficiency

Applied Technologies
Asset Assessment
Building Surveying and Auditing
Commissioning Management
Demand Side Management Consultancy
Energy Auditing
Energy Efficiency Consultancy
Energy Simulation
Feasibility Studies
Measurement & Verification
Net-Zero Energy Consultancy
Operational Efficiency Consultancy
Portfolio Sustainability and Compliance
Project Management
Technical and Regulatory Consultancy
Trainings and Capacity Building

Sustainability

Air Quality Management
Building Rating Systems
(LEED, BREEAM, WELL, Estidama, DGBR, Sa'fat, etc)
Carbon Management
Commissioning Management
Corporate Sustainability and Compliance
Energy Simulation
Feasibility Studies
Health and Well-Being
Independent Commissioning Agency
Low Carbon Design
Passive Design
Portfolio Sustainability and Compliance
Project Management
Renewables Consultancy
Smart Cities
Soft Landing
Sustainability & Environmental Consultancy
Technical and Regulatory Consultancy

Engineering

Air Quality Management
Applied Technologies
Building Information Modeling (BIM)
Building Services Engineering
(Electrical, ELV, Fire Protection, HVAC, LPG & Natural Gas, Plumbing, etc)
Building Surveying and Auditing
Commissioning Management
Computational Fluid Dynamics (CFD)
Concessions Advisory Services
Construction Management
Design Reviews
District Cooling Consultancy
Energy Simulation
Feasibility Studies
Operational Efficiency Consultancy
Planning and Permitting
Project Management
Soft Landing
Technical and Regulatory Consultancy
Value Engineering

Interior Design

Interior Design
Interior Renovation and Refurbishment
Project Management
Space Planning
Turn-key Fitout Solutions

Small Architecture

Architectural Design
Conservation and Preservation
Construction Management
Feasibility Studies
Passive Design
Planning and Permitting
Project Management
Urban Enhancement and Intervention

Sectors

Infrastructure & District Cooling
Buildings High-rise and Low-rise
Villas
Oil & Gas
Retail, food & beverage
Corporate

select clients



دائرة الطاقة
DEPARTMENT OF ENERGY



دائرة تنمية المجتمع
DEPARTMENT OF COMMUNITY
DEVELOPMENT



دائرة التعليم والمعرفة
DEPARTMENT OF EDUCATION
AND KNOWLEDGE



هيئة أبوظبي للإسكان
ABU DHABI HOUSING AUTHORITY



دائرة الصحة
DEPARTMENT OF HEALTH

ديوان ولي العهد
CROWN PRINCE COURT



DUBAI
REAL ESTATE
CENTRE

BY A.R.M. HOLDING



Hotels & Resorts



أبوظبي الوطنية للفنادق
Abu Dhabi National Hotels



المجلس
الوطني
للإعلام
National
Media
Council



المؤسسة العامة للرعاية السكنية
Public Authority for Housing Welfare



clients

new construction



Al Ferdous 1, 2, 3, 4

AED400M B+G+1 Mixed Use Buildings (Retail + Residential + Offices). Total built-up area is 120,000 m2. Full MEP design and construction supervision

ARYANA Five Star Hotel Tower

AED250M Full MEP design of the five star landmark in Sobha Hartland consisting of B+G+4P+30.



Sabreen

AED195M 2B+G+8 residential building with retail spaces on the ground floor. Total built-up area is 18,000 m2. MEP redesign (18% cost savings) and construction supervision.

UAE Pavilion for Expo2020

LEED Independent Commissioning Agent to achieve LEED Platinum and Sa'fat Building Rating

Industrial Complex

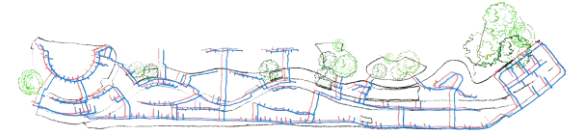
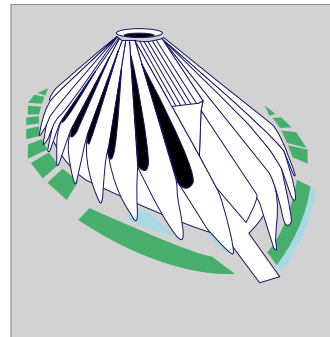
AED65M complex comprising a yacht factory, labor accommodation, and administrative offices. Full MEP design

Jumeirah Heights District Cooling Expansion

Design and supervision of the expansion of the existing plants to accommodate new developments.

Masdar Sustainability Framework

Framework agreement for multiple sustainability-related projects



Tabreed- Al Raha Beach 250 ETS's

Consultancy services

GEMS Al Reem Primary School

Estidama Consultancy and Independent Commissioning Agency

GEMS Al Reem Secondary School

Estidama Consultancy and Independent Commissioning Agency

Warehouses Complex

AED105M warehouses complex located in Jebel Ali Industrial Area is composed of 39 buildings housing 52 warehouses, cold stores, and administrative buildings. Full MEP design and construction supervision



ADHA Near-Zero Sustainable Villa

MEP design and Estidama consultancy (5 Pearl) for a near-zero villa prototype

Bugatti Villas

MEP design

Private Villa – Pearl Jumeirah

MEP design

Private Villa – Dubai Hills

MEP design

Private Villa – Sharjah

MEP design

Private Villa- Abu Dhabi

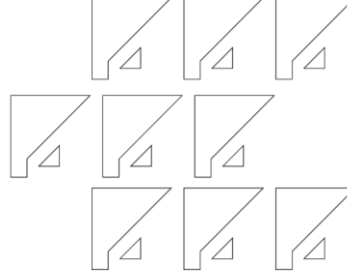
Interior design

GEMS National Schools for Boys and Girls

Energy Simulation and sustainability compliance

District Cooling Connection to School at Jumeirah Islands

District Cooling interface design and supervision



Al Khail Avenue

Peer review services and VAC design optimization

Nad Al Sheba Mall

Peer review services and VAC design optimization

Royal House in London

Interior design and fit-out management

Valentino Store at TDM

MEP design

EXPO 2020 Site Office

MEP design and commissioning management

Zayed University Students Club

Project management of MEP and interiors

Advect Offices

MEP design

Yinyang Spa

MEP design



Adventure ParX

Complete fit-out management including interior and MEP design and construction supervision

Ministry of Energy and Industry

Cooling load identification for the new HQ

Mamzar Hotel

Cooling load identification

Residential Development on Plot C-008-009, TECOM

MEP peer review

Residential Tower in Business Bay

MEP peer review



intervention



Burj Khalifa MEP Retrofit

Design, supervision, and commissioning management for the modification of Chilled Water system above level 150 the burj, Domestic Water System pumps retrofit and Firefighting Pump Line upgrade.

Retrofit Management for the Abu Dhabi Department of Energy

Consultancy services to facilitate the energy retrofit of eight DoE buildings including solar installations and the establishment of a central smart monitoring station

Retrofit Management for all ALDAR Buildings

Consultancy services to facilitate the energy retrofit of all ALDAR buildings including solar installations

Retrofit Management 198 TECOM Buildings

Consultancy services to facilitate the energy retrofit of TECOM buildings

Nakheel Energy Conservation Studies

Detailed energy audit and simulation of all typical buildings in the five communities (Ibn Battuta Mall, The Gardens (129 bldgs), The Gardens Furnished Apartments (8 bldgs), Discovery Gardens (41 bldgs), International City (111 bldgs))

Meraas Discovery Gardens

Detailed energy audit and retrofit management for 59 buildings.

Emaar Energy Benchmarking 2016, 2019

Energy benchmarking of all of Emaar properties

Etihad ESCO- Measurement & Verification

Sole M&V consultant for energy retrofit projects

Saudi Tarshid NESCO

Energy Audits and Retrofit Bid Management

Project Solis

Consultancy services for the 1,000MWh rooftop on-grid Solar Photovoltaic installation at Dutco Balfour Beatty labor camps



Etihad ESCO- Energy Audits

Walkthrough energy audit for select governmental entities

Royal Winter House Renovation

Complete retrofit of the architectural façade, interior, and MEP of a winter palace located in a nature conservation in the UAE to improve occupants experience, comfort, and views

Tabreed Seawater Plant

Technical audit

Chilled Water Consultancy Services at City Walk

Identification of and supervising the implementation of optimization and corrective measures

Emicool DCP 11

Client representative services for quality assurance for energy retrofit at the district cooling plant

Oman LNG

Feasibility study for the implementation of a District Cooling system in an LNG plant in the Sultanate of Oman



Dubai Festival City – District Cooling Plant Audit

Identification of optimization and corrective measures at a 50,000TR district cooling plant

Dubai Festival City – Low Delta T

Identification of the causes to and mitigation measures of low delta

Fairmont the Palm- Low Delta T

Identification of the causes to and mitigation of low delta T syndrome

Index Tower

Energy Performance Contract management/ Low Delta T mitigation

Hilton Corniche Abu Dhabi (now Radisson Sas)

MEP technical audit

Humidity and Mold Mitigation in a Five Star Resort in Dubai

Engineering consultancy services to identify causes and advise mitigation measures

Dutco Balfour Beatty Camps Energy Retrofit

Client representative services to facilitate and supervise energy retrofits from inception to completion of EPC

Transformers Rooms Study

Engineering consultancy services to identify causes of transformers deterioration and advise mitigation measures across tens of district cooling plants

Dubai Mall Aquarium

MEP design modification and on site supervision to upgrade the chilled water system feeding the Dubai Mall Aquarium

Dubai Mall Waterfall Fountain

Engineering services for the upgrade of the chilled water system feeding the waterfall

Court of HH Crown Prince of Abu Dhabi

Redesign for VAC system for improved thermal comfort

Dubai Mall F&B Exhaust System Retrofit

Rectification of F&B exhaust system in Dubai Mall's food courts for improved performance

Masdar City Offices

Redesign for VAC system for improved thermal comfort

Emirates Nuclear Energy Corporation Offices

Redesign for VAC system for improved thermal comfort

Honeywell Offices

Identification of measures for improved thermal comfort

Zee Tower Energy Audit

Detailed energy audit and simulation



Raha Building Energy Audit

Detailed energy audit

Hamza Tower Energy Audit

Energy audit

Sidra Tower Energy Audit

Detailed energy audit and simulation

Golden Mile 1&2

VAC bill allocation

M&V at Park Place

Measurement & Verification services

Al Sahel Contracting Sustainability Policies

Development of a comprehensive sustainability policy and management of successful adoption across the business units

Dubai Economic Department

LEED Existing Buildings and WELL consultancy services

Fairmont the Palm Energy Audit

Energy simulation and energy reduction measures selection



policy & advisory services

Dubai Cooling Market

Robust assessments of the size of the cooling market in Dubai, the extent of penetration by district cooling and other cooling methods, the actual efficiency of district cooling and the efficiencies of other cooling systems.

Technical Consultancy for the Dubai Demand Side Management Strategy

State-of-the-art technical consultancy to support the review and upgrade of the Dubai Demand Side Management with a focus on detailed energy modeling and advanced engineering techniques

Benchmarking for A Building Energy and Water Rating Scheme for Dubai

Technical consultancy and benchmarking to develop an energy and water benchmarking system for residential buildings, office buildings and hotels in Dubai



Kuwait Cities District Cooling Feasibility and Guide

Development of a comprehensive financial, legal, commercial, and technical guide to enable the adoption of District Cooling in Kuwait in addition to a concept level design of the network and plants in the new South Al Mutlaa City

Cooling Assets Concession Advisory

Concession advisory and technical due diligence for about 20 District Cooling and Chillers Plants. The plants are a mix of operational and under-construction plants, including both Water-cooled and Air-cooled plants with a total capacity of around 90,000TR.

DFC District Cooling Concession Advisory

Concession advisory for Dubai Festival City district cooling assets of about 50,000TR installed capacity and future expansion of around 40,000TR.



CFC District Cooling Concession Advisory

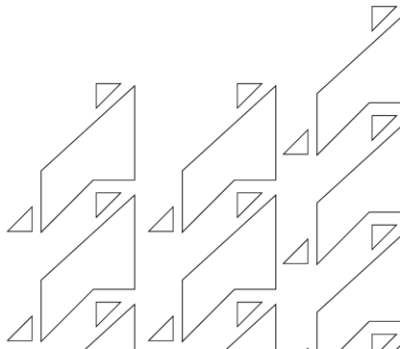
Concession advisory for Cairo Festival City district cooling assets of 15,000TR installed capacity and future expansion of 15,000TR.

Abu Dhabi Department of Energy's Plan to Energy Retrofit Project 150 Governmental Buildings

Five year plan to retrofit 150 buildings selected from a pool of 2,500 eligible buildings that display the highest potential of energy savings and the highest likeliness of retrofit success

Conventional Cooling Study

Techno-commercial analysis of the benefits of District Cooling against other conventional cooling techniques. The study was a holistic and comprehensive one covering all aspects of construction and operational benefits and costs over the life cycle of the systems.



CSR

We are enthusiastic about projects that improve the lives of **the people and their communities**. For many years, our core business has been to advise our clients on sustainable and energy efficient solutions, designs, and services to achieve their goals and requirements.

// We actively identify how our projects can be delivered using the UN SDGs targets as drivers for improvement. Through this alignment, we are able to better identify innovative solutions and actions that we can implement in our projects that resonate with our clients' targets all while ticking the UN Sustainable Development Goals.



The United Nations Global Compact is a voluntary leadership platform for the development, implementation and disclosure of responsible business practices in line with a set of principles that they have set forth under four broad topics: **Human rights, Labour, Environment and Anti Corruption**, as well as the **17 SDGs**. With this signatory, **grfn** commits to taking responsible business action to create the world we all want.



// Orphanage & Community Center for 300 underprivileged children in Tanzania

Together with a group of architects, master planners, interior designers and engineers from various companies and universities to complete the design of a facility for 300 orphans and under-privileged children in Tanzania, East Africa. The function of the facility is a children's home, school and sports center.

// Improving indoor Air Quality in kindergarten schools

Promoting a healthy learning environment for children is of utmost importance and should be better communicated and relayed to school administrators and education providers. With this goal in mind, we have committed to actively improve indoor air quality in kindergarten and schools in Dubai, through measurements and consultancy.

// Mangrove Cleanup

grfn's team took on a voluntary challenge of cleaning up the mangroves of Abu Dhabi, as part of our team-building activities, encouraging a collaborative attitude towards environmental activism.

knowledge transfer & other initiatives

// COMING SOON- grfn school

grfn is in the process of launching a student development program that will focus on curated internship programs across our five verticals of Energy Efficiency, Sustainability, MEP Design, Architecture and Interior Design. The platform will also offer a variety of workshops targeting different age groups, and will host a collection of trainings and webinars held by the grfn team. This initiative is aimed at ensuring quality and consistency of our internship programs, as well as embedding knowledge-transfer as a pillar within our operations.



// #grfnKIDS

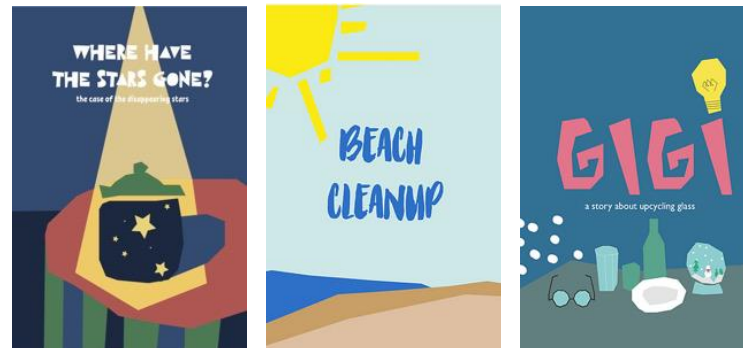
A series that we developed to simplify sustainability concepts and introduce them to our children. It is their #future that is threatened, and it is our responsibility to raise a generation that is aware, responsible and proactive in tackling some of the most pressing issues that face humanity.

[“Where have the Stars Gone?”](#) simplifies the concept of #LightPollution

[“Beach Cleanup”](#) explains how #PlasticWaste is detrimental to marine life

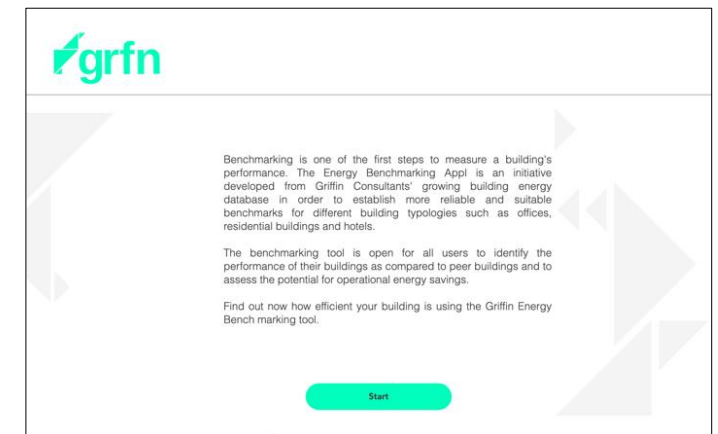
[“GIGI?”](#) a story about #RecyclingGlass

CLICK ON THE ABOVE TITLES TO READ



// COMING SOON- Energy benchmarking tool

With the lack of collated and published energy benchmarking references in the region, the firm has developed a free energy benchmarking tool soon to be rolled out on our website, free for use, as a means of our contribution to the energy efficiency movement. We hope that by giving the industry a tool to benchmark the energy use in their buildings, it will be a practical and true enabler to the energy efficiency drive in the UAE.



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Lebanon
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India
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