



experts of ingenious built environments

company profile

## 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**



**50+** team members in 2023



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

# 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



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# services



## buildings

*Project Development Consultancy*  
*Architecture and Interior Design*  
*Buildings Engineering*  
*FM & Operational Consultancy*  
*Commissioning Management*



## infrastructure

*District Cooling*  
*Smart Cities*  
*Data Centers*  
*Sustainable Infrastructure*



## energy and resilience planning

*Energy Retrofit Management*  
*Energy Audits*  
*Energy Modeling*  
*Resource Efficiency*  
*Building Performance*  
*Net Zero*  
*Regenerative Designs*



## strategy and advisory

*Trainings and Capacity Building*  
*Transactional due diligence*  
*Technical Expertise and Arbitration*  
*Technical Studies*



## sustainability and environmental consultancy

*Green Building Rating Systems*  
*Human-centric Design*  
*Sustainable Design*  
*Carbon Management*  
*Environmental and Social Impact Assessments*  
*Sustainability Strategy and Reporting*

### 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



مكتب التنظيم والرقابة لقطاع الكهرباء و المياه  
RSB FOR ELECTRICITY & WATER



clients

# Leadership team

## Hassan Younes

Co – CEO & -Founder



- 17+ years of experience
- MEP Expert
- ASHRAE HVAC design instructor
- Energy Efficiency Management
- Commissioning Management
- Highly Certified Professional
- Certified Trainer for international certifications and courses:
  - ✓ ASHRAE Lecturer & trainer
  - ✓ Certified CEM trainer
  - ✓ Certified CMVP trainer
  - ✓ EGBC trainer

## Omnia Halawani

Co – CEO & -Founder



- 17+ years of experience
- Combined Engineering & Business education and acumen
- Strategy Development
- Regional insights
- Project Management
- District Cooling expertise
- Controls & Instrumentation
- Energy Efficiency Management
- Certified Professional
  - ✓ CMVP
  - ✓ HBDP
  - ✓ LEED AP
  - ✓ Estidama PQP – PBRs

## Ayah Halawani

Head of Design & Partner



- 10+ years of experience
- Urban planning and design
- Architectural design
- Interior design
- Concept design development
- Sustainable materials and processes
- Project management
- Renovation and refurbishment projects.

# Leadership team

**Sandeep Dahiya**  
Technical Director



- 22+ years of experience
- Energy Efficiency Expert
- HVAC expert
- District Cooling efficiency expert
- Systems optimization and rectification
- ✓ Certified EVO L4 trainer

**Mohamed Anees**  
Country Director- Egypt



- 12+ years of experience
- Sustainable Developments
- Planning and Urban Development
- Energy Conservation
- Project Management
- Strategy Development
- Credentials:
- ✓ M.S. in Planning & Urban Development
- ✓ HeD – Building Performance Auditing
- ✓ M.S. in Energy Conservation & Sustainable Design
- ✓ B.Sc. in Architectural Engineering

**Mohammad Diab**  
Associate Director



- 10+ years of experience
- Energy, sustainability, & environmental consultant
- Feasibility and optimization studies
- ✓ Project Management Professional (PMP)
- ✓ Certified Energy Manager
- ✓ Certified Energy Auditor
- ✓ Certified Water Efficiency Professional
- ✓ Carbon Reduction Manager
- ✓ PMP® and CEA® Trainer

**Mohammad Matarneh**  
Associate Director



- 16 years of experience
- innovative Energy Consultant, Mechanical Engineer, and Certified Energy Manager
- Energy efficiency
- MEP Design and Supervision
- Measurement & Verification
- Testing and Commissioning
- BMS & SCADA
- Digitalization of energy management
- Certified Professional
- ✓ AEE CEM,
- ✓ AEE CWEP,
- ✓ Designing Toward Net-Zero Energy Buildings,

**Robert Haddad**  
Associate Director



- 16 years of experience
- Renewable energy
- Climate and Renewable Energy Finance
- Contracts administration
- Effective projects control
- Certified Professional
- ✓ PMP,
- ✓ FIDIC, Training on Red and Yellow Book - FIDIC

**Althaf PK**  
Projects Manager



- 16 years of experience
- Project Management
- Project risk management
- industrial, commercial, retail, and residential projects
- Consultancy and construction management
- Certified Professional
- ✓ Project Management Professional (PMP)
- ✓ Risk Management Professional (RMP)

# 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



# highlights



>135,000,000

kWh of Identified Energy Savings



## UAE Pavilion for EXPO 2020

LEED Platinum Achieved!  
grfn was the Independent Commissioning Agent

Technical and Project Management Consultants for Energy Retrofits of some of the largest projects worldwide

Over 200 buildings in Abu Dhabi  
Residential, Commercial, Retail, Hospitality and Schools



Dubai  
106 buildings, 41 boutique offices, 9 warehouses, 5 souks and various other types of buildings

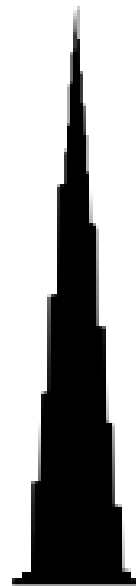


>22M SQM of Area  
9 Malls + 1 Hotel



>16,000,000

kWh of Verified Energy Savings



## BURJ KHALIFA MEP RETROFIT

Highest **water-cooled chillers installation in the world to segregate the chilled water supply in the top 15 floors. Innovative design of condenser cooling by return water from the return chilled water of the rest of the tower.**



>1,000,000

TR of District Cooling Designed, Assessed, and/or Optimized

# 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

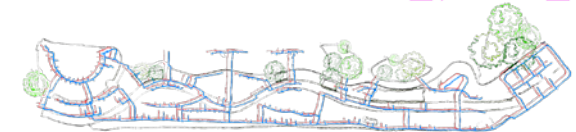
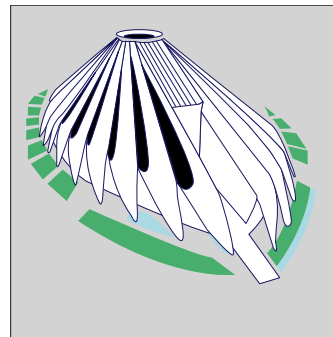
AED65M complex comprising a yacht factory, labor accommodation, and administrative offices. Full MEP design

## 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**

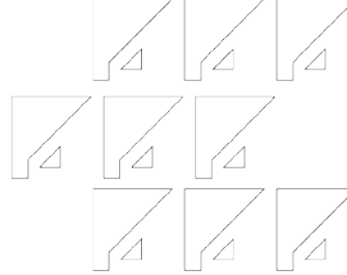
Interior design

**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

# existing buildings



## **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

## **Ethihad ESCO- Measurement & Verification**

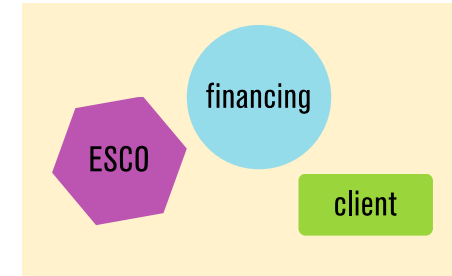
Sole M&V consultant for energy retrofit projects

## **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



## **Ethihad 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**

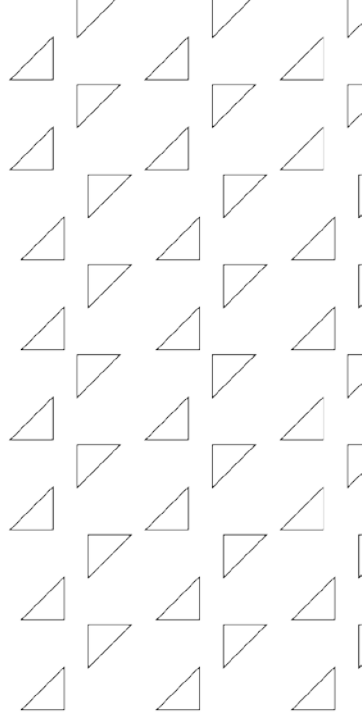
Identification of and supervising the implementation of optimization and corrective measures

## **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 Price 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 likelihood 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.

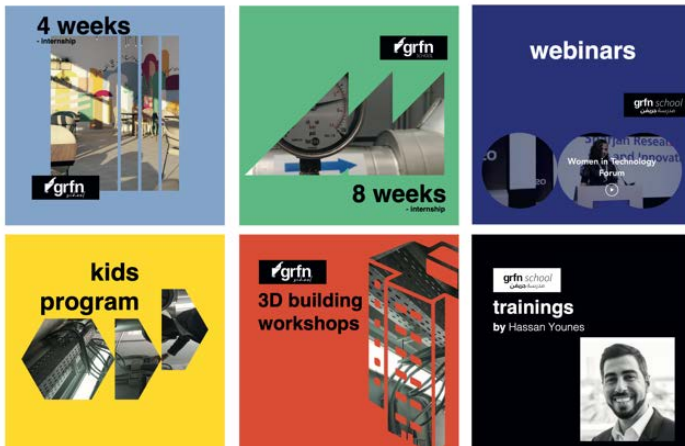
## // Mangrove Cleanup

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 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

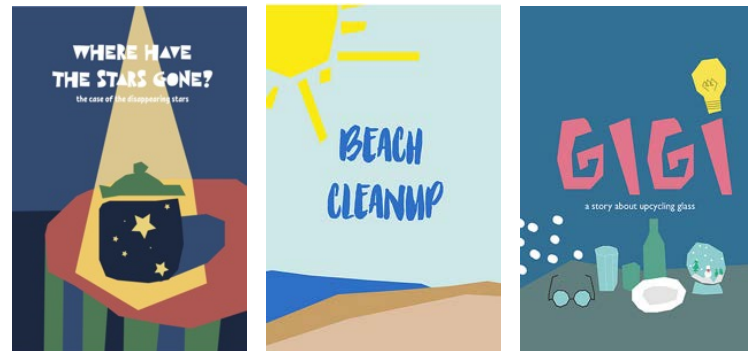
A series that we developed to simplify sustainability concepts and introduce them to our children. It is their #future that is threatened, and it is our responsibility to raise a generation that is aware, responsible and proactive in tackling some of the most pressing issues that face humanity.

"Where have the Stars Gone?" simplifies the concept of #LightPollution

"Beach Cleanup" explains how #PlasticWaste is detrimental to marine life

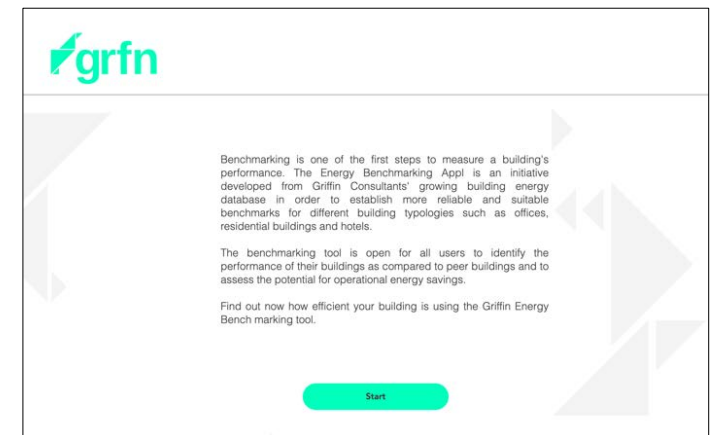
"GIGI?" a story about #RecyclingGlass

**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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team-based

