



# 2020 MENA Green Building AWARDS

Celebrating Green Building Achievements and Rewarding Excellence

Wednesday 18<sup>th</sup> November 2020

Pullman Hotel, Dubai Creek

Organized by

Endorsed by

In Partnership With



WORLD GREEN BUILDING COUNCIL



مجلس الكويت للمباني الخضراء  
Kuwait Green Building Council



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## A WORD FROM THE EMIRATESGBC CHAIRMAN

“The 2020 MENA Green Building Awards underlined the concerted efforts of all stakeholders to support the nation and wider MENA region to create sustainable built environments towards the goal of ‘Net Zero Buildings’ by 2050. The awards not only highlighted the spirit of green innovation that thrives in the region but also the resolve of the industry to stay committed to pursuing environment-friendly best practices, despite the pandemic. This year, we recorded a significant increase in the number of entries in the net zero building category. This is very positive news as it showcases our progress towards the UAE’s New Zero Commitment by 2050. We are committed to working towards encouraging technology adoption and innovation to help create a greener future for all.”



**His Excellency Ali Al Jassim**  
***Chairman of Emirates Green Building Council***

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# WELCOME TO THE 2020 MENA GREEN BUILDING AWARDS

The Annual Awards program, since its launch in 2013 has been honoring organizations that exhibit evident implementation of sustainable design, construction and operation of building structures. Our main objective of the Awards is to help better establish a regional model for the build environment that is world-class and replicable. First launched as the Annual EmiratesGBC Awards, the program was rebranded in 2017 to the 'MENA Green Building Awards' to accommodate and celebrate the accomplishments of projects and organizations across the cope of the MENA region.



The **2020 MENA Green Building Awards** recognizes organizations in the region for their innovative and outstanding sustainable building principles and practices. The MENA Green Building Awards have become one of the largest gatherings of industry professionals and researchers who are focused on promoting sustainable built environments. Although this year has been different from others, the Awards were still focused on celebrating various works in the industry.

The **2020 MENA Green Building Awards** is organized by the Emirates Green Building Council and endorsed by the World Green Building Council and in partnership with six MENA Green Building Councils: Egypt Green Building Council, Jordan Green Building Council, Kuwait Green Building Council, Lebanon Green Building Council, Morocco Green Building Council, and Palestine Green Building Council. These partnerships provide a greater reach to organizations beyond the borders of the UAE and offer wider exposure of regional projects and achievements that showcase best practices of sustainability in the region.

The awards were presented in 16 professional categories this year. It is also a pleasure to announce that the awards ceremony was a **carbon-neutral event** for a fourth consecutive year.



Winning organizations and short-listed ones have been acknowledged and awarded during the 2020 MENA Green Building Awards Ceremony and Gala Dinner that took place on Wednesday 18<sup>th</sup> November 2020 at The Pullman Hotel at Dubai Creek.

The Emirates Green Building Council would like to extend sincere appreciation to all who attended, supported, and made the 2020 MENA Green Building Awards a success.

# THE 2020 REVIEW AND JUDGING PROCESS

## Processes and Progress

The Official Judges for this year's awards were chosen based on their extensive experience and expertise within the fields of sustainability and green building.

They are from a variety of backgrounds ranging from academic, to the public and private sectors. This equips them with the knowledge required to review the numerous applications objectively and systematically.

Based on the processes in place and the Judge's feedback over the past years, it is with pride that the Emirates GBC sees the number of applicants growing each year. Through the years it is also incredible to see an improvement in the quality of submissions.

The MENA Green Building Awards have become the leading platform for the industry to not only recognize outstanding achievements but also innovations, products, projects, and research that support the nationwide and regional vision on sustainability.

## Transparency and Lessons Learned

As part of the awards' internal processes and in order to guarantee strict transparency and confidentiality, our applicants and official judges are provided with specific guidelines outlining the 2020 Awards Terms and Conditions, in addition

to details of the information that is to be included with the award application submissions.

These guidelines are prepared and approved internally by EmiratesGBC. The guidelines are updated yearly to consider all feedback received from the previous award cycles' applicants and judges. Our categories are also reviewed, and when needed, refined to remain relevant to the green building industry.

The overall process ensures that Emirates GBC guarantees absolute confidentiality; from the Awards launch until the announcement of the results during the Awards Ceremony and Gala Dinner, all parties involved in the 2020 Awards Program signed and maintained Non-Disclosure Agreements.

We continue to strive to build a stronger Awards program that reflects the progress and industry needs of the region.

## Identification of Winners and Short-Listed Organizations

The identification of short-listed and winning organizations is based on the scores and comments received from the official judges. At the end of the official scoring phase, results are compiled and presented to the Emirates GBC Awards Taskforce for final review, recommendations, and validation.

# INTRODUCING OUR JUDGES

## **Dr. Afif Akel Hasan**

Mechanical & Mechatronics Engineering Department, Birzeit University

## **Afra Alowais**

Chief Efficiency Officer, SEWA

## **Ahmad Altibi**

PMP, CEM, EDGE Auditor

## **Amer Abu-Shamleh**

M.Sc. In Renewable Energy and Sustainable Development

## **Eng. Anas Al-Asmar, CEM, CMVP, CLEP, REP**

Technical Manager, Eco Engineering and Energy Solutions

## **Anas Filali Baba**

Civil Engineer and Innovation Manager

## **Anwaar Alshimmari**

Chief Innovation Officer, Ministry of Energy and Infrastructure

## **Betsy John**

Senior Cost Control & Sustainability Engineer, Alargan International Real Estate Company

## **Dina Mustafa**

Head of Sustainability Operations, EXPO2020

## **Elie Matar**

Head of Electricity, RSB Dubai

## **Dr. Ghalib Y. Kahwaji**

Chair of the Mechanical and Industrial Engineering Department, Rochester Institute of Technology

## **Hassan Younes**

Director & Co-Founder, GRFN

## **Khaled Naser**

Head of Energy Management Department, Eco Engineering and Energy Solutions

## **Kheira Anissa Tabet Aoul**

Professor and Chair of the Architectural Engineering Department, United Arab Emirates University

## **Mustapha Aanzi**

Manager Sales and Operations, JCI

## **Nada Chami**

Market Development Manager, Saint-Gobain

## **Nael Saadeh**

Manager, Royal Electromechanical Engineering

## **Nazly Asadollahpour**

Sustainability Manager, Majid Al Futtaim

## **Rima Sorour**

Architect, Sustainability Consultant

## **Saeed Al Abbar**

Director, AESG

## **Salim Zid**

Senior Civil Maintenance Engineer, Dubai Municipality

## **Sandra Draskovic**

General Manager, Kuwait Green Building Council

## **Taher Azmi**

Director/Advisor

## **Taleed Al Khatib**

Sustainable Tourism Professional, DTCM

## **Waseem Al Azzeh**

Head of Global Sustainability Sector, Khatib and Alam

# THE 2020 AWARDS WINNERS



# NET ZERO BUILDING PROJECT OF THE YEAR

Presented by Platinum Partner, Knauf

## THE WINNER

### **Solar Innovation Centre by Dubai Electricity and Water Authority (DEWA)**

The DEWA Solar Innovation Centre, part of Mohammed Bin Rashid Al Maktoum Solar Park has been developed in purpose to showcase the latest renewable and clean energy technologies to attract individuals, tourists, university students, schools, and businesses. This establishment will also serve as a permanent conference Centre for events, conferences, business meetings, training courses, and seminars to discuss green and sustainable initiatives. The Solar Innovation Center is a strategic building of DEWA equipped with the latest renewable and clean energy technologies and aims to raise awareness on sustainability, while enhancing national capabilities and increasing competitiveness.



## SHORTLISTED

### **RGS Guildford by Multiplex Constructions LLC**

The Royal Grammar School Guildford will aim to provide a 'Premium' school environment for children, on course to be the 1st BREEAM project in the UAE. The Design and Build project has 100% DD complete and made the final design submission for BREEAM rating. The project has completed construction over 50% and is designed for attaining Nearly Net Zero status in line with the EmiratesGBC Nearly Zero Project definition. The project site office has also been designed to comply with the nearly zero definition and with 6months of operational data, it is well on course to be the first site office of its kind.

### **SEE Institute by Diamond Developers**

Fairgreen International School (henceforth "FIS") is in The Sustainable City, an award- winning community in Dubai. The school is embedded in a vibrant community and surrounded by an equestrian center, an urban farm, and a green field. It is designed to receive up to 1,100 students, from pre-K to Grade 12. The curriculum is the International Baccalaureate.



# GREEN BUILDING PROJECT OF THE YEAR

## THE WINNER

### **Masdar Etihad Eco Residences Phase #2 by Abu Dhabi Future Energy Company PJSC (Masdar)**

The Etihad Eco Residences Phase 2 exemplifies the idea of Masdar City as a compact and walkable development. It is a commercially viable mixed-use city, providing a high quality of life with the smallest environmental footprint. The epitome of sustainability both in a desert environment and in a commercial mixed-use context, the Etihad Eco Residences Phase 2 introduce exemplary design which prioritizes a human-centered approach in harmony with reduced environmental impact, and connection to natural surroundings. This project creates a truly mixed-use community that is well connected, walkable and a stimulator of innovation. The mixed-use development establishes a fine urban grain, encouraging active and sustainable lifestyles, and promoting community-building at all scales.



## SHORTLISTED

### **My City Center Masdar by Majid Al Futtaim**

Located in the heart of Masdar City, the most sustainable city in the world, My City Centre Masdar is the community's location of choice for convenience shopping, dining and leisure. Encompassing over 18,000 square meters, it brings a variety of the most sought after international and local retail stores, and varied dining options for visitors to enjoy. Following the highest sustainability standards My City Centre Masdar will stand out as a progressive hotspot in the city of Abu-Dhabi and serve as the community's location of choice for their everyday shopping and lifestyle needs.

### **LANDFORM House by theOtherDada**

LANDFORM house stands out for its landscaping strategy and for the use of a formal language derived from the study of the region's past indigenous civilization, the Nabateans, proposing a green approach. Employing a formal vocabulary culled from the study of the region's past indigenous civilizations, LANDFORM draws its inspiration from the land-embedded monuments they left behind. Local natural materials are used to translate landscape into architecture, creating a residence that appears to be carved out of the earth, blurring the line between the natural and the artificial. Based on biomimetics, the work of theOtherDada fosters a symbiotic relationship between nature and the built environment, exploring new ways to create regenerative buildings.

# SUSTAINABLE DESIGN PROJECT OF THE YEAR

## THE WINNER

### **Al Sheraa Building by Dubai Electricity and Water Authority (DEWA)**

DEWA is currently constructing Al Sheraa Building which is expected to be the largest, and smartest Net Zero Energy Building in the world. The project is located at Al Jadaf, Dubai, near the Jadaf Metro Station. The design for the DEWA Headquarters Office Building and Associated Facilities at Jadaf is required to be a Net Zero Energy Building and targets LEED Platinum, WELL Silver & Al Safa'at Platinum certification levels. In addition, the project will also certify its parking spaces under Parksmart certification. The building will be designed to accommodate 5,000 people with a total GFA of approx. 66,000 m2 office spaces.



## SHORTLISTED

### **Zayed 2071 Villa Innovative and Sustainable Housing by Sheikh Zayed Housing Programme & ECOBUILD Engineering Consultants LLC**

The developer, Sheikh Zayed Housing Program, had the vision to design and build a sustainable eco-villa in the Emirate of Ajman that would meet the highest sustainability requirements. The Sustainability Design Consultant, ECOBUILD, worked with the developer, SZHP, and project's consultant to incorporate innovative construction materials and equipment to the villa design, which endorse it as a benchmark for a sustainable villa in UAE. The main objective was to integrate sustainable design strategies into the early design phase of the eco-villa to minimize energy and water consumption, reduce external heat gain, and create healthy indoor and outdoor spaces for the future occupants of the villa while keeping an eye on the overall life-cycle cost and construction budget.

### **Sharjah Sustainable City by Diamond Developers**

Sharjah Sustainable City is the first sustainable and net zero development in Sharjah, which meets the highest standards of green economy and environmental sustainability. It is the outcome of a strategic partnership between Sharjah Investment and Development Authority (Shurooq) and Diamond Developers. The AED 2 billion project is spread across 7.2 million sqft, and is strategically located in Sharjah near Al Rahmaniya area, easily accessible from the Sharjah International Airport and Sharjah University City. The project was designed to be aligned with the global movement towards becoming climate positive, which means not only reducing carbon emissions but having a positive impact on the environment through energy production and encouraging others to be more eco-aware

# FACILITY MANAGEMENT ORGANIZATION OF THE YEAR

## THE WINNER

### Emaar Facilities Management

EFM has developed a world class FM strategy to complement Emaar's vision, mission and strategic objectives. A five year (2016 – 2021) strategic roadmap provides a comprehensive, holistic and balanced approach to meet the organization's objectives related to customer satisfaction, financials, sustainability, energy conservations and achievement of a safe & secure environment. In addition, Emaar Facility Management aims to support UAE Sustainable Development Goals (SDGs) in terms of clean water (SDG 6), sustainable consumption and production (SDG 12) and climate action (SDG a3). Emaar Facilities

Management reports its progress toward achievement of its SDG's to the Private Sector Advisory Council on SDGs (PSAC) founded by the Federal Competitiveness and Statistics Authority (FCSA). Oliver Wyman in partnership with PSAC has reported Emaar's performance and contribution toward the achievement of UAE's SDG's.



## SHORTLISTED

### Adeeb Group

Our Company has taken the lead to set the vision of being superior and has made the planning process through the proper mission and has aligned its strategy towards its achievement. To add the crown to our company, we have achieved major prestigious projects in UAE such as ADNOC SKEC (4 Highrise buildings), Etihad Rail, Nation Tower, Al Ain Tower, Sama Tower, Dubai South, Seychelles projects etc., by entering the key competitive tenders among different FM Players. Currently the company holds a satisfactory market share in the region and strives continuously on improvements in terms of FM services. The company has reached nearly 30 years of excellence by retaining our major clients and have achieved OSHAD certification from Abu Dhabi Municipality and BICSc certification from UK for our soft services.

# GREEN CONTRACTOR OF THE YEAR

## THE WINNER

### **Multiplex Constructions LLC**

At Multiplex, we are committed to driving positive change by collaborating with our clients and industry groups, developing policies, best in class business practice, services, and innovations for both us and our industry. Positive Impact is our expression of the net positive idea where we aim to do better than harm as a business thereby driving a positive change on the pillars of Environment, People and Communities.



# DEVELOPER OF THE YEAR

## THE WINNER

### **Diamond Developers**

Diamond Developers is a leading sustainable developer that is fully committed to address climate change by building net-zero energy communities, promoting renewable energy sources and reducing Greenhouse Gas (GHG) emissions contributing thereby to the good of our communities and of the planet. Diamond Developers design masterplans to build and maintain sustainable, evidence-driven, and intelligent, live-work-and-thrive cities. It has built its own DNA, which encompasses Social, Environmental and Economic considerations. Hence our sustainable cities are socially inclusive and cohesive, environmentally conscious, and proactive, commercially viable and economically sustainable. Beyond these cities, Diamond Developers also share the know-how, to inspire other to join the journey for a better tomorrow.

## SHORTLISTED

### **Majid Al Futtaim**

Majid Al Futtaim has committed to ambitious goals and strategies such as Net Positive by 2040, single-plastic free by 2025, Net Zero Building commitment. To support that we officially launched our Dare Today, Change Tomorrow strategy in 2018 and were careful to spend time listening to stakeholders, both internally and externally, to make sure our 2019 targets were in line with the ambitions expressed in our Sustainable Business Commitments which run to 2022. With the business spanning 17 countries and 500+ assets, our mission is to implement sustainable development and strategy throughout.

# GREEN CONSULTANT OF THE YEAR

## THE WINNER

### **Cundall Johnson and Partners LLP**

Cundall is an international multi-disciplinary consultancy, operating from 21 locations across the globe with over 950 people since 1976. Sustainability is integral part to Cundall's mission, vision, and values. With sustainability at the heart of everything they do, their team of engineers delivers innovative, sustainable design solutions to address the project's whole life cycle. Their award-winning practice has been established in the MENA region for over a decade with offices in Dubai and Doha and associated offices in Oman and KSA. Cundall is the world's first consultancy to be formally endorsed as a One Planet Company by sustainability charity Bioregional.

## SHORTLISTED

### **Alpin Limited**

Alpin believes that as a company, and a Sustainability Consultancy firm no less, they strive every day to practice what they preach, and this submission shows the myriad of ways in which they foster knowledge and innovation in green/sustainable practices, and use that to influence their management, employees, partners, clients, as well as the general public. Alpin is proud to be a pioneer in the region with our involvement in introducing sustainability and wellness certifications to the region: they had the first WELL-certified office in the Middle East, and worked on the first BREEAM-certified project in the region as well.

# Green Building Project Of The Year – Indoor Air Quality

## THE WINNER

### **Eolis Air Manager by EOLISAIR**

Eolis Air Manager S-model with its Active Oxygen feature and 1-hour Deep Cleaning treatment is now added to the cleaning protocol. Research studies have been conducted about the effectiveness of Active Oxygen (O<sub>3</sub>) gas in destroying viruses, bacteria, molds, and fungi. It is now used as an air disinfectant in indoor environments to stop viral infections. An experiment on ozone disinfection in SARS contaminated areas proved the high effectiveness of ozone in reducing airborne virus in a vacant room. Since ozone is a gas, it can disinfect the entire room from the floor to the ceiling. This property will allow LFJM to deep clean daily all classrooms after school hours.



## SHORTLISTED

### **DAIKIN FCU with PCO Filter Technology by Daikin Middle East & Africa**

Chilled Water Fan Coil unit with Photo catalytic oxidation (PCO) filter technology. PCO filter technology utilizes ultraviolet radiation to create highly reactive hydroxyl radicals and super-oxide ions on the surface of a metal oxide catalyst. Biological contaminants coming in to contact with the hydroxyl radicals are oxidized and decomposed. Volatile organic compounds (VOCs) are converted to simpler chemicals, carbon dioxide and water. PCO filters are equipped with multiple high power UV lamps and metal plate TiO<sub>2</sub> filter to ensure effective purification. As a photo catalytic raw material, TiO<sub>2</sub> adopts high temperature film forming coating technology to give full play to its photo catalytic effect

### **Carrier Negative Pressure HVAC Solution for Isolation Rooms by Carrier Middle East Limited**

Carrier with more than a century of expertise in Indoor Air Quality (IAQ) is offering a range of engineered solutions and advanced technologies to reduce airborne contaminants while at the same time targeting patient's thermal comfort with cleaner and healthier IAQ. Carrier's negative pressure solution for isolation rooms has been designed to significantly reduce the presence of airborne contaminants including biological contaminants from the air, at the same time targeting patient's thermal comfort with cleaner and healthier air to breathe. The solution offers air conditioning besides ventilation to provide proper IAQ in the room.

# GREEN BUILDING PROJECT OF THE YEAR – ENERGY MANAGEMENT

## THE WINNER

### **Sageglass Harmony by Sageglass by Saint-Gobain**

SageGlass contributes to significant long-term savings over the course of a building's life cycle. In addition to reducing the upfront material costs of shading systems, incorporating dynamic glass in a building design can reduce operating costs by 20 %, reduce peak power demand by up to 30 %, decrease HVAC system needs by 25 % and reduce cooling loads up to 20 %. SageGlass is even more sustainable than traditional solar control panels, which consume more energy during manufacturing, transport, installation, maintenance and operation.

In fact, SageGlass can help a building earn a wide range of Green Labels such as LEED, BREEAM, HQE and more.



## SHORTLISTED

### **Carrier Xpower VRF Unit by Carrier Middle East Limited**

Innovation is at Carrier's core, proven by Carrier variable refrigerant flow (VRF) Xpower technology that circulates the minimum amount of refrigerant needed for each individual zone to satisfy building load. Since there are no ducts, this eliminates the energy waste associated with the duct loss. A single outdoor VRF condenser can power up to 64 independent indoor units, depending on the system. Carrier offers Xpower VRF solutions with the top discharge VRF ranging from 8HP to 20HP having a combination of up to 56HP. The Carrier Xpower VRF was developed to ensure performance and efficiency in a solution that is easy to install, easy to service, highly reliable and quiet. Carrier Xpower VRF offers ultra-efficient operation with intelligent system connectivity.



# GREEN BUILDING PROJECT OF THE YEAR – WATER MANAGEMENT

## THE WINNER

### Permavoid by Polypipe Middle East

Permavoid can be used as a water management solution that enables the creation of multi-functional green spaces, through innovative Capillary Cones or Permafoam, which provide the plants with important nutrients and water by irrigating from below – creating natural irrigation without using pumps, hoses, or energy; just like nature. This reduces the demand for water for irrigation by up to 40% when compared to over-soil irrigation systems where water is lost to evapotranspiration. Permavoid green roofs have a significant benefit to cooling load reduction in buildings by providing an insulation layer to the roof construction whilst creating an environment that promotes well-being and biodiversity in the city.



## SHORTLISTED

### Tristar Effluent Treatment Plant by Tristar Group

Tristar's JAFZA Warehouse integrated green building standards was certified with the LEED Gold Green Building certification. The Leadership in Energy and Environmental Design (LEED) certification by the U.S. Green Building Council (USGBC) is the sustainability initiative most applicable to warehouses. The project was designed, developed and is being operated as per LEED Gold rating under USGBC LEED NC v3.0 rating. This warehouse houses a state of the art Effluent Treatment Plant (ETP) to effectively treat the large amount of hazardous waste water resulting from our truck washing facilities. Operating as a responsible business, the project was aligned with the vision to reduce environmental pollution, reduce the consumption of fresh water resources and protect community's health and safety along with being economically sustainable.

# GREEN BUILDING MATERIAL OF THE YEAR – CONSTRUCTION MATERIAL

## THE WINNER

### **Saint-Gobain Façade System – Glasroc X by Saint-Gobain UAE**

The Glasroc X sheathing board is a gypsum base board used externally that provides a full weather proofing to the building envelope. It is installed on a light steel frame structure in a drywall system assembly, filled with stone or glass wool insulation in the cavity for advanced acoustic and thermal performances. Lightweight and fast to install, the full system is opening new opportunities to the UAE and wider Middle East building sector.



## SHORTLISTED

### **Hydro CIRCAL by Hydro Building Systems Middle East**

Hydro Building Systems, a part of Hydro group, has launched a new series of certified low carbon aluminum alloy called Hydro CIRCAL which are used in windows, doors, and glazed facades. By using Hydro CIRCAL, we are minimizing the carbon footprint of our facade and fenestration products and maximizing opportunities for our customers. Currently Hydro CIRCAL alloy contains a minimum of 75% post-consumer scrap. When guaranteeing more than 75% recycled content, we exclusively refer to aluminum that has reached its end of life as a product in use and is brought back into the loop. Using recycled post consumed content, we reduce energy use drastically while still being able to offer high quality architectural aluminum windows, doors and façade systems.

### **CapaCare Protect by Caparol Paints**

CapaCare Protect is an innovative premium emulsion, specially formulated with unique patented SILVERbac technology to persistently inhibit the growth of microbes such as viruses (eg. Human coronavirus), bacteria, fungi, molds and algae on the coated surface, decreasing the spread of contagious diseases. CapaCare Protect prevents the growth of micro-organisms using active silver. Its anti-microbial properties will remain for as long as the paint film is intact, without any additional treatments or special cleaning required. CapaCare Protect is based on naturally occurring pure silver and is proven to be entirely safe, having been certified as bio-compatible and non-toxic, passing tests for cytotoxicity, skin irritation and sensitization. The new CapaCare Protect is an innovative and sustainable solution that families can trust to provide better protection against harmful micro-organisms, while aesthetically enhancing their interiors at the same time.

# GREEN BUILDING RESEARCH AWARD

Supported by Category Sponsor, Enova Middle East

## THE WINNER

### **SIFS Building Envelope Analyzer by Smart Insulation Finishing Systems LLC**

The “Building Envelope Analyzer” (SIFS BEA) is a novel test facility in the United Arab Emirates, which is capable of full-scale testing of building envelope systems under realistic boundary conditions. The facility is owned by Smart Insulation Finishing Systems (SIFS) and was designed and built by the SIFS R&D team in close collaboration with Tecnalia (Spain). The facility is envisioned as the cornerstone of in-house product development & testing for SIFS, allowing to assess the comparative performance of insulation materials on the envelope, and the energy and cost savings associated with them. SIFS plan to use this facility to raise awareness on the benefits of using green building materials in the envelope and the energy savings associated with it.



## SHORTLISTED

### **3-YEAR Research Performance of High SRI Coatings and Development of Nano Dust Pickup Resistant Paints by RAK Research and Innovation Center, AURAK**

Continuing the motivation received through recognition of our efforts in this field of research and testing of building insulation solutions, RAKRIC has collaborated with Abu Dhabi Quality and Conformity council to develop a unique pilot facility for conducting research/testing of high solar reflective index (SRI) materials. The facility has been funded by to support QCC Trustmark certification schemes on cool paints/coatings. However, there is significant knowledge gap about the performance of the high SRI paints in UAE climatic conditions. To fill this gap, we have initiated a 3-year research project in March 2017 for evaluation of long-term performance of these materials exposed to natural environmental conditions of UAE

### **Thermal Performance of Living Wall System for Green Buildings by Heriot-Watt University, Dubai Campus**

This study investigated the thermal performance of a Living Wall System (LWS) in sustainable buildings, and to analyze its thermal behavior. In such climatic situations, the thermal comfort of the indoor spaces of buildings cannot be overlooked. A field experiment was carried out with two identical thermal sheds, with the LWS installed on the south-facing wall of one shed while the other shed did not incorporate the LWS. The findings showed that the foliage layer of the LWS had higher surface temperature compared to the bare wall, this is due to two main reasons; the sun and the internal chemical reactions happening in the plants, a mechanism called non-photochemical quenching also plays an important role.

# RETROFIT PROJECT OF THE YEAR

Presented by Platinum Partner, Majid Al Futtaim

## THE WINNER

### Radisson Blu Deira Creek hot water retrofit by Energie GCC

Energie GCC was created in 2016 to distribute and provide turnkey solutions using Thermodynamic Solar Systems in the GCC countries. After the proper certification in UAE by Dubai Municipality's Dubai Central Laboratory (DCL), we started implementing the technology with bespoke results as it perfectly fits the Gulf weather and its energy and space requirements. The solution has been successfully implemented in UAE, KSA and Kuwait in hotels, hospitals, staff accommodations, residential buildings, and villas. Our aim is to switch off inefficient system as boilers and electrical heaters and replace them with high performance thermodynamic solar system. One perfect example of this application was the project implemented in 2019 at the Radisson Blu Deira Creek. The project aim was to retrofit the oldest 5-star hotel in Dubai by implementing an energy saving measure – the thermodynamic solar system – for generation of all the hot water demand of the hotel.



## SHORTLISTED

### Mosques Retrofit Project by Siemens Industrial LLC

DEWA's Etihad ESCO has partnered with Siemens to aid the Islamic Affairs and Charitable Activities Department (IACAD) with reducing the energy consumption of 115 mosques and two buildings through the execution of a retrofit project. Siemens supported Etihad ESCO and IACAD to provide heating, ventilation, and air conditioning (HVAC); and water and lighting retrofit solutions; along with the installation of control systems to further reduce the energy consumption of HVAC and lighting.

### Hot Chiller Plant Optimization Project by Siemens Industrial LLC

Grand Hyatt is part of the Hyatt Hotel Group Corporations. Established in 2003 its one of the largest hotels in Dubai. Siemens was selected to carry out an audit for the facility and propose measures for Energy conservation. Post the survey, the chiller plant was identified as the primary area for energy savings through implementation of Siemens patented Demand Flow solution. which was specifically developed to improve the efficiency of water-cooled plants, through years of accumulated information, knowledge and energy simulations. As is the case in the hospitality sector, the Chiller Plants are always operational and the associated challenges in execution were expertly handled by Siemens project management team.

# BEST OPERATIONS & MAINTENANCE (EXISTING BUILDING)

## THE WINNER

### **Burj Khalifa Operations and Maintenance by Emaar Facilities Management**

In the entire history of mankind, optimal utilization of resources be it time, energy, water, or manpower, has always been and will always be a top priority for sustainable living. In today's world, a common habitat for human life are buildings. One such building that has found a prominent place in human minds for its sheer presence is Burj Khalifa. In this nomination, we would like to highlight, how Burj Khalifa, the world's tallest building, pays enormous attention and consciousness to its Operation and Maintenance and achieved astonishing results over the past years. The

nomination depicts the main objectives of Emaar Facilities Management Strategy adopted in Burj Khalifa such as Best Maintenance practice, Reducing Carbon Footprint, Improving Energy Efficiency, Reducing Water consumption, Increasing staff productivity, Reducing operation cost, Increasing recycle of materials, Waste Management, Health & Safety of the occupants, Innovation, Learning & continuous development.



## SHORTLISTED

### **Nation Tower by Adeeb Group**

Nation Towers is an exemplary addition to the capital's skyline, located on Abu Dhabi's Corniche. Nation Towers comprises of two towers that have world class facilities including a 5 star deluxe hotel, loft apartments, office space, retail area, recreational amenities, beach club and ample parking for residents and visitors. The 5 star deluxe hotel will be situated in the top 17 floors of Tower 2, giving visitors breathtaking views of the city and the sea. The remaining floors in Tower 2 will include class a leasable office space. This include 350 rooms, spas and a fitness facility. It is also home to upscale boutique shops geared towards high-end consumers.

# TRAINING INITIATIVE OF THE YEAR

## THE WINNER

### **Cundall Diploma by Cundall Johnson and Partners LLP**

As part of our CSR initiatives, we have developed an internal training program to ensure all of our engineers deliver sustainable designs with support as required from our specialist sustainability and building analysis team. The Cundall Diploma is a Sustainability focused CPD certified diploma created by Cundall Sustainability global team which is offered to all Cundall staff globally. March 2019 saw the first batch of 25 graduates with over 100 enrolled ranging from Graduate Engineers and Technicians to Partners.

## SHORTLISTED

### **Sustainable Energy & Economic Development Project in Jordan “SEED” by Cowater International INC**

SEED follows a unique holistic approach; one which puts training at its heart to build the capacity of skilled workers in EE&RE with the goal to boost and expedite regional sustainable development. The SEED Training Initiative, which commenced in the year 2019 and will continue until project end, provided free-of-charge public community development opportunities on the topics of green building concepts and EE&RE solutions, targeting the local communities of Ajloun and Deir Alla in Jordan.

### **Zmerly Academy Training & Social Effect by Zmerly & Co.**

Education is the most powerful tool that can be used to make a positive impact on our planet causing a sustainable change. Because we know the value of investing in success, we agreed to offer the experience we accumulated over the years to technicians and students from all over Lebanon in the form of various training programs that suit their needs, and by developing exceptional educational facilities about all heating and solar systems, in addition to sustainable energy. We also aim to tackle a wide range of social issues including school dropouts, by discovering new skills, increasing their contribution to the business, building their self-esteem and adding livelihood and function capabilities. This will lead to the creation of more Eco-Oriented green jobs and contribute to a better future for generations to come.

# HEALTHY SPACES PROJECT OF THE YEAR

## THE WINNER

### Dubai Police Young Leaders Hub by Dubai Police

The Skyline Building in Dubai Police headquarters was developed to welcome people from all around the world - whether students, employees, or entrepreneurs, and connect them to collectively achieve one mission: Dubai, The World's Safest City. While the definition of safety entails achieving the security and well-being of the community, it is then only right to provide the building occupants with a healthy and innovative environment that inspires and imitates the definition of this ambitious mission.

Skyline is one of Dubai Police latest transformational efforts into modern policing, bringing the community closer together in a safe and productive environment. It models international best practices in achieving environmental sustainability, economic viability and social prosperity through its human and community well-being centric approach. The shipping containers used are in many ways an ideal construction material, as they carry heavy loads and provide modular elements that can be combined into larger structures. This simplifies design, planning and transport, making it at the forefront of the most efficient, durable and cost-friendly structural architecture ever designed in Dubai Police to date.



# A THANK YOU FROM EMIRATES GBC

It was truly a pleasure to plan the 2020 MENA Green Building Awards as this year was unlike any other year. The COVID-19 pandemic greatly impacted economic activity and society not only in the UAE but also around our region. We would like to extend our gratitude to all of those who helped us with the awards in these unprecedented times. It is remarkable that we received the greatest number of applicants this year as compared to our previous years despite the lockdowns, remote work, and other disruptions.



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## Special Thanks

Emirates GBC would like to extend a special thanks to the platinum partners and category sponsor who contributed to making the 2020 MENA Green Building Awards a success

### Platinum Partners



### Category Sponsors





Emirates Green Building Council would also like to thank all those who contributed to the success of the 2020 MENA Green Building Awards Ceremony and Gala Dinner:

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### Awards Ceremony Emcees:

Noura Alhammadi and Sarah Alzarouni

### Office Team:

Lora Shrake, Lynsey Crerar, Majd Fayyad, Jinan Al Hajjar, Adelita Cortenia, , Jason John, Tara Tariq & Menaka Bhatia

### Congress & Awards Board Taskforce:

Ali Al Jassim, Habiba Al Marashi, Farah Yassine, Huda Shaka, Amin El Najjar, Hunyum Murya, Ioannis Spanos, Nada Chami, Sanjeev Coelho, Tushant Suri, Ali Amiri, Nour Attia



### GBC Partners:

WorldGBC, LebanonGBC, PalestineGBC, KuwaitGBC, JordanGBC, MoroccoGBC, EgyptGBC

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The Emirates Green Building Council (EmiratesGBC) was formed in 2006 to contribute to the United Arab Emirates' goal to be a global leader for sustainability in the built environment. Globally, EmiratesGBC represents the UAE on the World Green Building Council and supports the MENA Network of Green Building Councils.



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