

BULLETIN

QUARTERLY MAGAZINE OF CONSOLIDATED CONTRACTORS COMPANY

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TOWARDS A MORE
SUSTAINABLE
FUTURE



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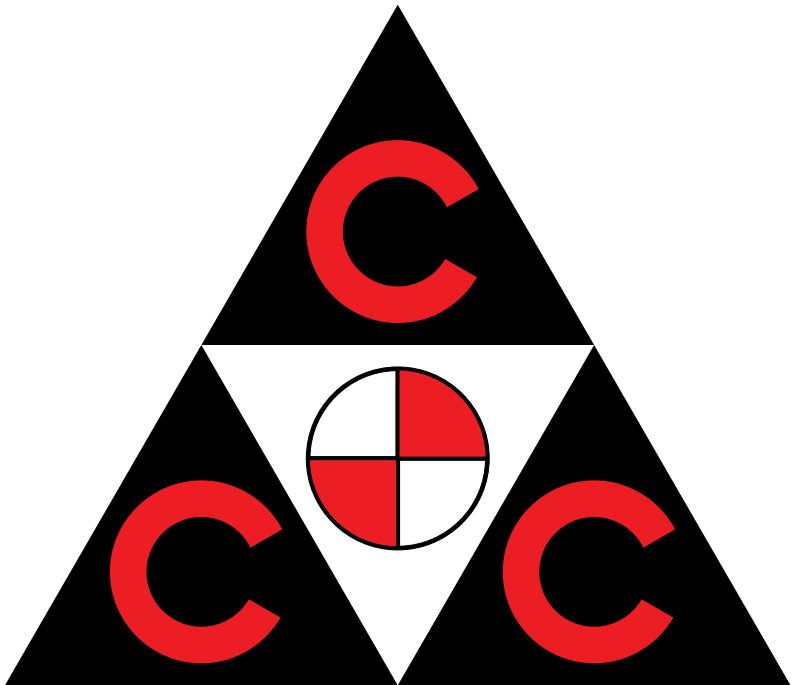
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FROM THE DESK OF ...



SAMER S. KHOURY
Chairman

World Environmental Sustainability

The world today is facing five huge environmental challenges:

1. The Ozone Layer Depletion
2. Water Pollution
3. Air Pollution
4. Solid Waste Management Pollution
5. Deforestation

We at CCC can do our share to improve the global environment for our children by taking some simple steps both at work and at home.

I have chosen three topics and I ask that you think about them and discuss them with your families at home and your colleagues at work:

1. How we can reduce the CO₂ emissions in our daily life.
2. How we can reduce water usage and water pollution and increase water recycling.
3. Wood and plastic are heavily used in our homes, offices and project sites. How can we reduce our dependency on them and increase recycling?

Don't judge each day by the harvest you reap, but by the seeds that you plant

Robert Louis Stevenson

I urge you all **TO ACT NOW**. Time is not on our side.

RECENT AWARDS

SAUDI ARABIA
NEOM Green Hydrogen Project

Award Date: May 2022
Duration: 40 months
Completion Date: October 2025
Client: Air Products Middle East Industrial Gases - LLC

Project Brief and Scope of Work

The Green Hydrogen Project is a Grass Root Plant in NEOM city, KSA. The project includes the following units:

- Air Separation Unit
- Hydrogen Production Plant & Storage Tanks
- Green Ammonia Plant & Storage Tanks
- Associated Interconnecting Pipe Racks, Common Utilities, and Steel Buildings.

CCC Scope of Work includes Civil Works, Structural Steel Supply & Erection, Mechanical Equipment Erection, Piping Fabrication and Erection, Electrical & Instrumentation, Painting, Insulation Works and Facility Precommissioning.

QATAR
Ras Laffan Petrochemicals Project
+ EPC Early Works

Award Date: May 2022
Duration: 16 months
Completion Date: October 2023
Client: Chevron Phillips Chemical Company Qatar LLC. and the Owner is Qatar Energy

Project Brief and Scope of Work

- Installation of a permanent fence around the Construction Site (E3/E4) and WWTP area in addition to a temporary fence around Construction Site laydown area (E2A);
- Site preparation of the Construction Site, Construction Camp and WWTP Plot
- Installation of temporary services including: 33 kV electrical feeder circuit, telecom fiber cable, desalinated water line and temporary potable water line.
- EPC of a Wastewater Treatment Plant ("WWTP").



QATAR
QAFCO 7 Project

Award Date: July 2022
Duration: 48 months
Completion Date: August 2026
Client: Qatar Fertiliser Company Q.P.S.C (QAFCO)

Project Brief and Scope of Work

The CCC scope of work consists of the construction of one new Ammonia Plant (A7) on the Q7 site, offsite and utilities works at the Q5-Q6 site, CO₂ transfer line over existing piperack and NH₃ loading area. The works comprise civil works, EPC for 2 buildings, EPC for 2 tanks, structural steel supply and installation, equipment erection, piping fabrication and erection, painting and insulation works and E&I.



IVORY COAST
Abobo University Hospital Center

Award Date: June 2022
Duration: 36 months
Completion Date: September 2025
Client: Ministry of Health & Public Hygiene / UPPH (Unité de Pilotage du Programme Hospitalier)
Consultant: GM Design / PEP Engineering / Direction des Infrastructures, de l'Equipement et de la maintenance

Project Brief and Scope of Work

The scope of work includes the Construction of a 3-floor 600-bed University Hospital Center and its annexes (research and training center, gymnasium, boarding school, morgue and technical rooms) on an area of 18 Ha with a total built-up area of 56,000 m². It consists of a 35,000 m³ of reinforced concrete structures, architectural finishes works, and MEP works including HVAC, medical gas piping (by others), fire system, electrical, IT network and elevators, in addition to all outdoor facilities such as internal roads, parking, driveways, squares, green spaces, street lights, sewage network and treatment.



NFE Project World Quality Week Celebration Program

Article by: NFE QA/QC & A. Papadopoulos

QUALITY MANAGEMENT

World Quality Week (WQW) is celebrated every year around the world in November. This is an annual opportunity to celebrate quality achievements and teamwork along with peers and the quality community, as well as to increase worldwide awareness of the important contribution that quality makes towards both organizational and national growth, and prosperity.

This year, the WQW theme is "Quality conscience: doing the right thing".

Between 6 and 10 November 2022, the North Field Expansion Project in Qatar marked World Quality Week with a special multi-day celebration program event, in which all stakeholders joined their forces. The 5-day event included various sessions at multiple locations on-site.

Day 1: Held at the NFE site office "Exhibition Hall"

The Company, JV Contractor, Subcontractors, and selected Suppliers were all present allowing for fruitful communication with each other. The keynote presentation conducted by QG & CTJV Top Management was on the subject of "Commitment of the top management for the quality requirements as per ISO 9001".

Participating groups exhibited their QA/QC systems & assets in the exhibition hall, and held practical demonstrations and awareness talks featuring an array of key site activities, such as:

- Raw material for concrete - Process of concreting - Quality Control - Curing
- Admixture advantages/disadvantages - QC of mixing the admixtures
- Installation for anchor bolts display
- Implementing the automated welding process in NFE-1
- Welding process for slug catcher piping
- Flange management requirements
- Piping activities
- HVAC in buildings
- Gaskets and their properties



QUALITY MANAGEMENT: World Quality Week Celebration Program in NFE Project

The NFE World Quality Week Celebration Program was attended by personnel from participants including:

- | | | |
|----------------------|---------------|------------------|
| ▪ Qatar Gas | ▪ Hilti Qatar | ▪ Qatar German |
| ▪ Chiyoda-Technip JV | ▪ GAC | ▪ Gasket Factory |
| ▪ CCC | ▪ Hydra-tight | ▪ Acciona Agua |
| ▪ Ready Mix Qatar | ▪ TEK FEN | |
| | ▪ HBK | |



Presentations by CTJV and CCC focused thematically on:

- "Do It Right First Time"
- "Preservation"
- "Build It Clean / Flange Management requirements"
- "Commissioning and Uninterrupted Startup (UISU)"
- "Implementation of Quality Culture in NFE-1"

Day 2: Toolbox Talk and 'Q&A' session on-site for the theme "Do it Right First Time"

Site Management emphasized to staff the importance of quality and the current level of compliance achieved by CCC at the NFE Project. A 'Question & Answer' session was conducted to workers and thereafter QG/CTJV/CCC Management awarded them various prizes. During the site visit, the management team had an added opportunity to evaluate the level of on-the-job awareness of site personnel and results were impressive, with gifts provided to respective top-performing employees.





QUALITY MANAGEMENT: World Quality Week Celebration Program in NFE Project

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Day 3: Toolbox Talk and 'Q&A' session on-site for the theme "Preservation"

A Toolbox Talk on preservation and cleanliness was conducted site-wide for small groups belonging to different disciplines. Lessons learned from previous projects and trend analysis from CCC site surveillance observations were considered for the toolbox talk material content. Awareness posters & boards were also displayed at site with "Do / Do Not Do" for Civil, Mechanical, E&I disciplines. Another 'Question & Answer' session ended with attractive prizes to staff.



Day 4: Toolbox Talks on-site for themes prepared by Quality & Construction personnel

Technical Toolbox Talk sessions were conducted at the respective site locations for Civil Works, Welding & Piping works, Cathodic protection etc. Representatives from CTJV and QG also participated in these sessions and addressed the project requirements, while showing their appreciation to CCC personnel with gifts for their level of performance.

Day 5: Closing Ceremony

On the final day, a Quality-award ceremony took place, in which selected personnel received recognition for their achievements. CCC received the recognition award for remarkable performance in Quality Compliance at NFE Project.

The NFE World Quality Week celebration event was deemed to be both unique and successful in its intended objectives by all representatives present. Hopefully such program can become a recurring event, to be held in each Project by CCC and our partners.



World Quality Week | NFE Project | Quality Award



UMRP Project Quality Excellence Certificate

Article by: A.H. Amiruddin

Consolidated Contractors Group-Teyseer (CCCT-JV), the main contractor of P008-C3 "Construction and Upgrading of Mesaimeer Road Project" (UMRP), received the **Certificate of Quality Excellence** by the Highway Projects Department of Qatar's Public Works Authority (ASHGHAL). The project's main feature includes the construction of an extradosed cable supported bridge - the first of its kind in Doha, Qatar.

The Certificate of Quality Excellence was awarded to the project in recognition of its contribution for implementing the Good Quality Management Practices among ASHGHAL projects. The award was handed over to CCCT-JV by Eng. Bader Mohammed Darwish, Manager of the Highway Projects Department, on September 15th 2022 at ASHGHAL tower.

A Message from the QA/QC Manager to the team:

Gentlemen,

On behalf of the Project Director and the team, myself and Muallem Ayman were Honored to receive such recognition. It is an Honor, because this Certificate represents the acknowledgement of the client for our commitment towards systematic quality management, and this happens because of our management support and your hard work. The awarding of this certificate would not have been possible without the guidance and supervision of the Project Director, Mr. Mohsen El Azzeh and the execution team Project Manager, Mr. Ahmad Dib.

In this gathering, we stated the following 3 pillars being the motivation for maintaining our quality standard:

1. Management support & commitment
2. Experience & leadership of the team
3. Technical know-how

This Certificate may look like a printed piece of paper, yet what it truly represents is the sweat and blood of the team who tirelessly work hard to complete the project without setting aside the quality of works in the project.

And lastly, this is another achievement to be added to your prize list and CV experience; its worth is more than an incentive. Thank you all.

Regards,
Al Ameen H. Amiruddin
QA/QC Manager. UMR Project



A New Frontier NEOM

Article by: A. Bosheh



FEATURE



About the Region

NEOM is a visionary future smart city that is located in the north-west of Saudi Arabia. That region has seen considerable development and technological advances. Tabuk, for example, that is located to the east of Neom is a major technological centerpiece in the field of Agriculture. A quick search on google maps will show you all these circular fields that produce different kinds of fruits and vegetables for local consumption. Industrial scale continuous agricultural development has been transforming Tabuk for over 30 years. Tabuk is also home to "Tabuk Castle", which is also known as the castle of "Companions of the Wood". The castle dates back to about 3500 BCE and has witnessed numerous events in history. The castle and others similar structures lined the pilgrimage route from the Jordanian Borders to Al-Madinah. Wadi Dam, which is located to the West of Tabuk is a significant historical site with rock art and inscriptions dating back to different chronological periods ranging from the Paleolithic to Islamic periods. Other important sites in the area include Ain Sukkrah and the Prophet's Mosque, which will foster tourism and interest in the region.



FEATURE: NEOM - A New Frontier



NEOM is REAL

About NEOM

According to NEOM's website "Neom is a vision of what a new future might look like. It's an attempt to do something that's never been done before and it's coming at a time when the world needs fresh thinking and new solutions. Simply put, NEOM will be a destination, a home for people who dream big and want to be part of building a new model for sustainable living, working and prosperity." The future city is under development with different ideas, such as "The Line", "NEOM Bay", "Oxagon", "Trojena" and other being proposed for feasibility studies. It is planned that NEOM will cover a total area of 26,500 km² and extend over 170 kilometers along the coast of the Red Sea. Although the project is still in its infancy, massive efforts and state of the art media campaigns are being developed to promote NEOM as the future of sustainable living. This for sure is attracting attention and generating huge interest in the area and what it has to offer to future generations.



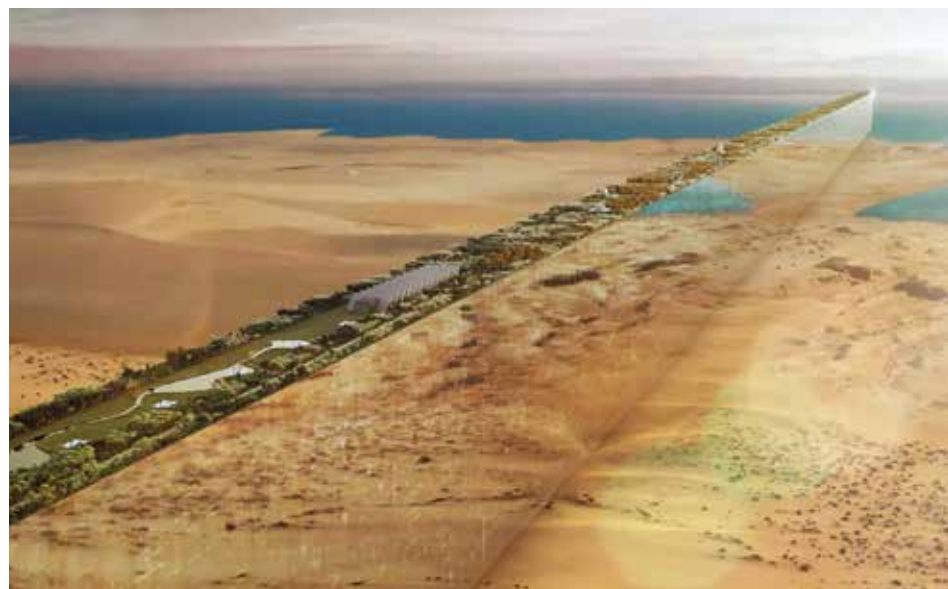


FEATURE: NEOM – A New Frontier

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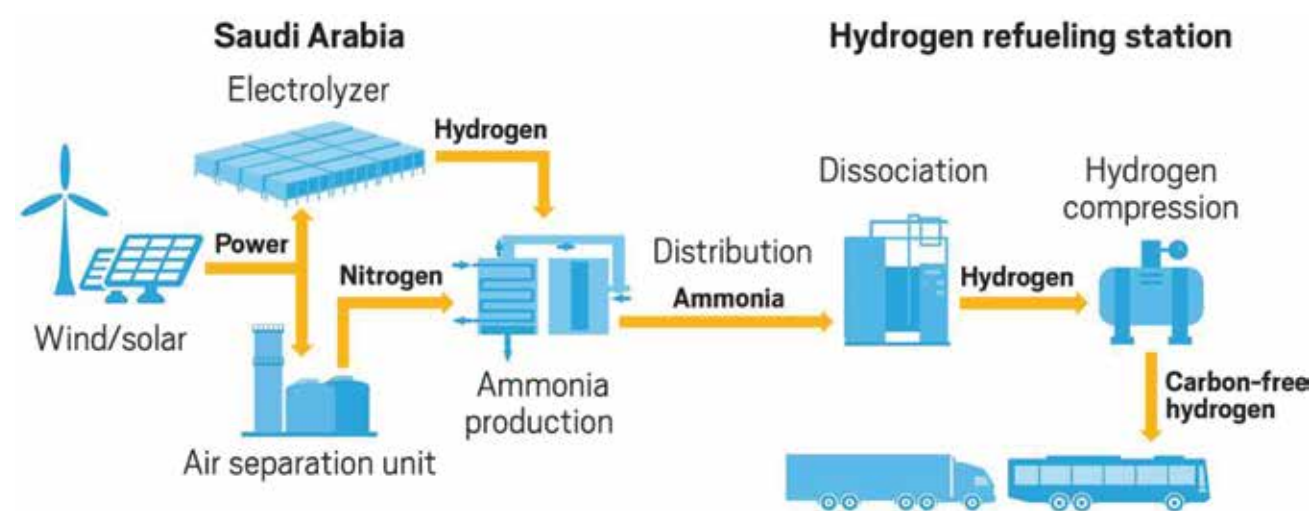
CCC's Involvement in NEOM

Business Development Teams exerted considerable efforts and participated in several workshops with NEOM development companies to see where best to position CCC as an active contractor in the area. For over two years, CCC has been participating in major prequalification initiatives and consequent bidding processes to put a foot on the ground in NEOM. All this effort blossomed when CCC was awarded the NEOM Green Hydrogen Project. NEOM Green Hydrogen will help CCC position itself as a leading contractor in NEOM as a whole and the field of Green Hydrogen that is considered by many the future of fuels.



About NEOM Green Hydrogen Project

The bidding process for NEOM Green Hydrogen Plant started over a year ago and during COVID-19 lockdown. The bid process was very challenging with many long presentations and clarification meetings, adding to the challenge the fact that CCC and client bidding teams were mostly working from home during the early stages of the process.



CCC's scope of work in NEOM Green Hydrogen Plant includes civil works, structural steel supply and erection, mechanical equipment erection, piping fabrication and erection, electrical and instrumentation, painting, insulation works, and facility pre-commissioning. The plant is fully run on renewable green solar (2GW) and wind (2GW) energy that is constructed by others. Power is then transmitted to the site, where some will be stored in onsite batteries and other will be used to run the plant, depending on peak green power production. The process uses desalinated water from a Seawater Desalination Plant through electrolysis to split H₂O to its basic elements of two hydrogen atoms and one oxygen atom. These will then be purified and stored for further processing where hydrogen will be transferred to ammonia using nitrogen that will be produced at an Air Separation Unit (ASU). The heart of the plant is 110 Modularized Electrolyser trains that are housed in 5 steel structure buildings.



FEATURE: NEOM – A New Frontier



CCC NEOM Outlook

Beyond Neom Green Hydrogen Project, CCC is actively working on numerous bids. Our teams are working hard to realize more work for CCC in NEOM and build on the strong relations we enjoy with local authorities, NEOM development company and other contractors working in the area. These relations are built on trust, hard work and belief in CCC's unmatched ability to deliver projects on time and within budget, while keeping contractual quality requirements and never compromise on safety. CCC is in a very good position to establish itself as the contractor of choice for challenging and complex construction activities in the region.

Author Note

In the 1989 film "Field of Dreams", Kevin Costner played an Iowa farmer called Ray Kinsella who was inspired by a voice he would hear in his farm saying, "If you build it, he will come". This inspired him to build a baseball field that for sure brought both players and spectators to his ground and provided him a decent return in the process. The visionary organizers behind NEOM scheme are just like Ray Kinsella, they are dreaming big, they have a vision, and they are banking on if they build it, they will come. I am cautiously interested and excited by the whole development and would love to see these ideas implemented and constructed on the ground in a manner described by NEOM marketing team. The fact of the matter is, the projects being proposed are very challenging; if completed, yes people will be interested, yes people will come, and yes, the area will flourish. With a little bit of regional flexibility, the region selected for NEOM already possesses an unparalleled natural beauty. In a worst-case scenario and if this vision is not fully realized and the area turns into a summer holiday destination in a manner like Sharm El Sheikh, visitors will come to soak up the sun and enjoy the clear water of the Red Sea, thereby bringing economic prosperity to the region. The catch and what differentiates NEOM from other touristic development is that it is not meant to be a tourist destination. NEOM is meant to be a sustainable green city that people will move in to and adopt the ethos of a sustainable lifestyle for generations to come.



IVORY COAST Foundation Stone Laid for Abobo University Hospital Center (CHU) in Ivory Coast

Article by: Z. Sammour

Under the patronage of the Prime Minister of the Republic of Côte d'Ivoire Mr. **Patrick Achi**, the ceremony of laying the foundation stone for **Abobo University Hospital Center (CHU)** project took place on 30th July 2022 in **Abidjan**, the economic capital of **Côte d'Ivoire**.



The ceremony was held in the presence of the country's Foreign Minister and Abobo's mayor **Kandia Camara**, Minister of Health **Pierre Dimba**, Speaker of Parliament **Adama Bictogo**, Director General of the Arab Bank for Economic Development in Africa **Dr. Sidi Ould Tah**, head of the delegation of the Saudi Development Fund **Yasser Al-Otaibi**, the Saudi Arabia's ambassador to the Republic of Côte d'Ivoire **Abdullah bin Hamad Al-Subaie** and other senior officials. **Ibrahim Dahleh**, Africa Area Managing Director, was present representing Consolidated Contractors Group (CCC).

The 600 beds health facility will be built on an area of 18 hectares in Abobo district and will include a 3-floor hospital and university hospital center in addition to its annexes including a training/research center which will contain a 200-seat amphitheater, 60-bed boarding school accommodation, staff accommodation villas consisting of two semi-detached villas and one isolated villa, a gymnasium with therapy pool, a morgue and other technical & service buildings with a total built-up area of 56,000 m².

The construction works which were recently awarded to **Consolidated Contractors Group** are due to be completed in 36 months. In his speech during the ceremony Mr. Patrick Achi added: *'I want to encourage the company Consolidated Contractors Group, winner of the works contract for the CHU. I count on their professionalism and their diligence in the work carried out, as well as in absolute respect for the contractual deadlines that we have set'.*



AREA NEWS: Foundation Stone Laid for Abobo University Hospital Center (CHU) in Ivory Coast



The project aims to support and increase the operational capacity of health facilities and improve the level of basic health services in Abidjan, targeting a population of around 6 million people. The center will have special emphasis on women and children through state-of-the-art pediatric and neonatology services occupying one third of the facility. In addition to this mother-child center and other medical departments, the Abobo University Hospital will have five other specialized centers: head and neck, osteo-articular, abdomen, general medicine and infectious. Additionally, a hemodialysis center with 50 generators, a sport area and an emergency helipad will be added. According to the Head of Government, the project upon its inauguration in 2025, will be the largest CHU in Côte d'Ivoire. One of the largest in the sub-region, it will not only strengthen the university hospital system of Abidjan, but it will also put Côte d'Ivoire at the level of the largest African and global university hospitals. The key characteristics include a strategic role in education, training, and clinical research for the development of quality care including the most advanced interventions in organ transplants.

The total cost of this flagship health infrastructure is about 80 billion CFA (US\$ 120 million) including the medical equipment. The financial contribution is divided between the Saudi Development Fund (SDF), the Arab Bank for Economic Development in Africa (BADEA) and the Ivorian Treasury. Mr. Achi lauded the Kingdom of Saudi Arabia's efforts in supporting the development sectors in his country and praised the work and development activities carried out by SDF. Presiding over SDF's delegation to Abidjan, Yasser Al-Otaibi thanked Achi and Ivorian officials for their warm welcome and invite to the ceremony. *'This is a vital project to develop the health sector,'* said Al-Otaibi.

The Client for this project is Ministry of Health of Côte d'Ivoire, designed by GM Design International from Tunisia and the Consultant is Groupement Alrabiah/PEP Engineering. CCC's scope of work includes reinforced concrete structures, architectural, interior finishes, MEP works including HVAC, fire safety, electrical, low current, medical gas piping (by others) and elevators in addition to all outdoor facilities such as roads, landscaping, external utilities, paving and sewage treatment. The official project start date is 6th September 2022.

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QATAR

CCC to take part in building the largest Blue Ammonia Plant in the world

Article by: Y. Hijazi

The Consortium of ThyssenKrupp Uhde and Consolidated Contractors Group Doha S.A.L was awarded an Engineering, Procurement, Construction, and Commissioning (EPCC) contract for the world's largest Blue Ammonia Plant to be built for Qatar Fertilizer Company (QAFCO; a subsidiary of Industries Qatar (IQ)). The contract was signed on the 31st of August 2022 in Doha, Qatar.

CCC's participation in this strategic project aligns with the management's directives of collaborating with select clients and partners of choice on projects that further advance sustainability in the construction industry and the energy sector. The one-team-one-goal spirit among all stakeholders has been on display from the onset of early activities and stems from the declared commitments of all parties engaged on the job towards steering this project towards a timely and efficient delivery.



CCC's scope of work consists of the construction of one new Ammonia Plant (A7) on the Q7 site in Mesaieed Industrial City south of Doha, offsite and utilities works at the Q5-Q6 site, CO₂ transfer line over the existing piperack and an NH₃ loading area. The works comprise civil works, EPC for 2 buildings, EPC for 2 tanks, structural steel supply, and installation, equipment erection, piping fabrication and erection, painting and insulation works, and electrical/instrumentation. The plant is scheduled for completion in 2026.

The design of the proposed plant will utilize Uhde® ammonia technology to build a single-line system with a record capacity of 1.2 million metric tons per annum or the equivalent of 3,500 metric tons per day of blue ammonia, making it the biggest facility of its kind in the world. QatarEnergy's sustainability and energy transition strategy include various initiatives to reduce greenhouse gas emissions in Qatar by 2035, with the blue ammonia production being one of the viable options towards reducing the carbon intensity compared to other energy sources such as LNG.

Recognized for its potential to help reduce CO₂ emissions and address global energy needs, blue ammonia is produced when the carbon dioxide (CO₂) generated during conventional ammonia production is captured and stored for reuse rather than flared or released into the environment. Blue ammonia could then be used in power stations to produce low-carbon electricity, as it is an efficient transport medium of hydrogen, itself an alternative fuel to carbon-based energy sources.

His Excellency Mr. **Saad Al Kaabi**, Minister of State for Energy Affairs, and President & CEO of QatarEnergy, said Ammonia-7 is a milestone project for the state of Qatar and the industry as a whole:

'It builds on our expertise in installing, operating and maintaining conventional ammonia plants to produce fertilizers. We are also building on our unique position in the renewables and carbon capture and sequestration space, as well as on our ideal logistical capabilities and advantages to supply differentiated, low-carbon products and fuels to the world.'



KNOWLEDGE MANAGEMENT

The increase of utilizing new technologies and automation across CCC, as part of the Company's Digital Transformation (DT) strategy, led to a natural skills and competencies gaps, in addition to creating new opportunities for employees to develop and enhance their skills in order to meet new job demands for new job transformation.

CCC has always carried onsite training courses as well as joined formal educational learning programs with highly ranked institutions. Motivated by Covid-19 and enhancements to online educational technologies and part of the DT plans, CCC's management decided to move forward with eLearning.

In early 2021 CCC partnered with Coursera, a leading global online learning platform which provides a wide range of courses, certifications, as well as under- and post-graduate education, delivered by 200+ partner universities and industrial institutes, across 55 countries, offering in excess of 6,500+ courses to more than 87+ million active learners across the globe.

Officially launched on 21 February 2021, the partnership focuses on delivering eLearning opportunities to CCC employees, in all disciplines through eLearning programs created specifically to meet CCC's training needs.

CCC eLearning engagement with Coursera was optimized to enhance employees soft and technical skills in various areas.

CCC staff who participated in the eLearning experience through Coursera were enthused to have been given such an opportunity to experience learning from highly respected and ranked institutes.

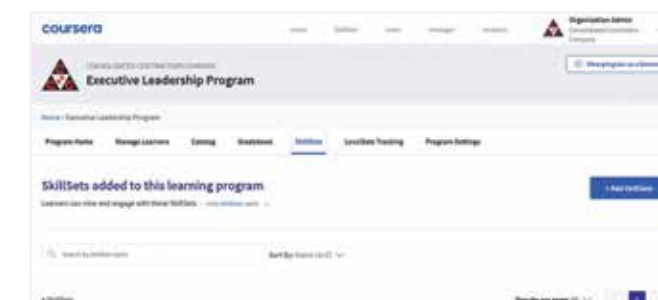
In addition, as part of the engagement, Coursera offered CCC a Learning Management Tool (LMS) to host inhouse developed online courses on their platform. This is along with an open-to-all-CCC employees' possibility to enroll in Coursera Guided Projects: short interactive courses that help the learner acquire or enhance specific skills. The access to the Guided Projects was welcomed by CCC employees.

All in all, since the inception of the engagement, some 1,500 employees from across the Group joined Coursera completing over 2,500 courses and 125 specializations spending a total of 22,000 learning hours. Of the overall learners, 11% were women.

CCC is an Authorized Training Partner (ATP) by PMI® and delivers training webinars approved by PMI for Professional Development Units (PDU's) for certification maintenance. Through this authorization, CCC offers a wide variety of in-house online webinars meant to introduce CCC employees to construction concepts, workflows and market trends, as well to develop their soft skills.

CCC Deploys eLearning Initiatives to Upskill Employees

Article by: M. Abusalah / A. Dabdoub



As it became difficult for CCC employees to attend technical conferences, we had the first online event: CCC Technology & Innovation Open Day 2022 – Online, an event that highlighted new business, technology and innovation trends. The slogan of the event was:

"Learn How Emerging Technologies are Changing the Way We Build"

In the CCC Technology & Innovation Open Day CCC employees have an opportunity to explore new market and technology trends, listen to industry experts and exchange ideas. In its first online event experience CCC has invited 8 speakers from different continents to talk about technologies and tools that CCC started using or will be using soon. Over 280 employees attended the online event from 15 different countries.

CCC will keep evolving its learning activities onsite and online to achieve its Learning and Development objectives.



The Importance of Sustainable Infrastructure

Article by: B. Kanj

SUSTAINABILITY

The State of Qatar has experienced a rapid and speedy development in the last decade with significant investments in various development sectors such as real estate, infrastructure, transportation and communication, education, health care, tourism and largely sports, as being the first country to host FIFA World Cup in Gulf Cooperation Council (GCC) Countries.

The Sustainable Infrastructure that is designed, constructed and operated to optimize environmental, social and economic outcomes of the long term. The World Bank has stated that Infrastructure Projects consume about 50% of raw materials and 80% of mineral raw materials used by the construction sector (World Bank). So, considering sustainable design and construction will:

- Identify the need for balance between economic, social and environmental aspects.
- Maximize the positive effects on productivity and quality of life.
- Minimize the negative impacts on the environment.
- Optimize the opportunities for cost savings in overall investment.

In view of this swift development, the Public Works Authority Infrastructure Affairs (ASHGHAL) has started various infrastructure projects in Qatar including Al Bustan North (P007 C7 P2) project. Ashghal engaged the Consolidated Contractors Group (referred as "CCC") - Teyseer JV (the JV) to design and build the proposed Al Bustan North (P007 C7 P2) project, hereafter known as "the Project".

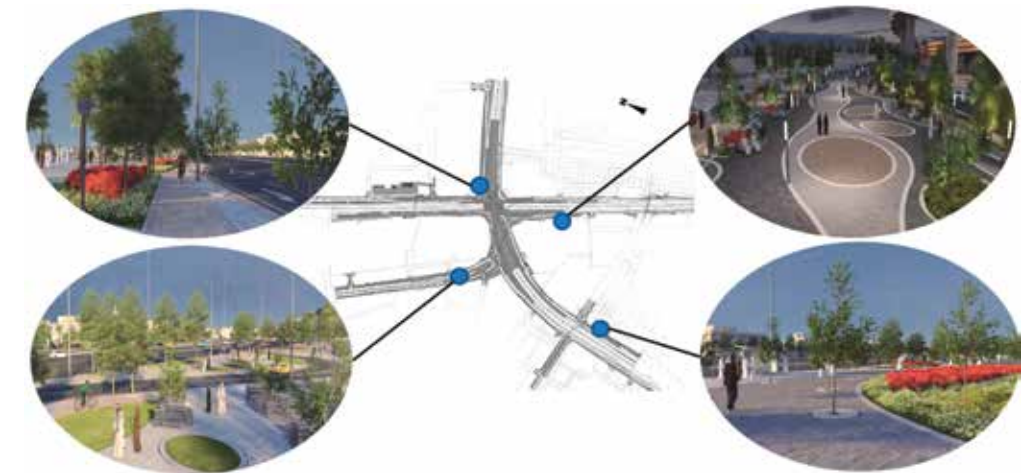
Project Description

Al Bustan Street North is approximately a 3.6 km expressway and it is located west of the existing Al Shamal Road (also referred as part of Al Sabah Corridor). The scope of work includes the complete design, approvals, permitting and construction of a new expressway, including four grade-separated interchanges with crossroads, frontage roads, overpass and underpass structures, retaining walls, pedestrian and bicycle paths, traffic signs, signals and Intelligent Transportation System (ITS), landscape and hardscape and artscape, street lighting, surface water micro-tunnel and all related infrastructure.



SUSTAINABILITY: The Importance of Sustainable Infrastructure

Landscape Design View, B5 + B6



Sustainability in Design

1. The Project Scheme Sustainability Strategy

- Establish a high quality and integrated public transport network that results in a modal shift from private motor vehicle to public transport across Qatar, whilst recognizing the right and desire of Qataris to transport choice.
- Ensure radial routes act primarily as transit corridors designed to reduce private motor vehicle usage and environmental costs and promote orbital routes to aid the creation of balanced growth.
- Ensure mega project and other large-scale development are integrated into the wide community and contribute to the overall quality and sustainability of Qatar.
- Promote equitable accessibility to community facilities and social amenities for all residents by co-locating them within key transit mixed-use centers.
- Develop a unique and high quality public realm which is equitably accessible and permeates throughout Qatar's urban areas.
- Plan and utilize urban block size, form and height to promote connectivity, a vibrant public realm, and improve environmental and social conditions that incorporate the best of both traditional and hi-tech solutions.
- Plan, coordinate, upgrade and deliver transport and utilities infrastructure services in a timely and cost-effective manner to achieve sustainable urban communities, mixed-use centers, balanced growth and environmental benefits for Qatar.

2. Design Elements & Measurable Targets

- The design of Al Bustan North Project incorporates some measures of sustainability best practice to promote sustainable development wherever possible.
- Consideration of these options will result in this project becoming an icon for sustainable transport infrastructure design within the region.
- Listed below are the elements which are considered within the development of the design;

2.1. Landscape Design

- Less than 6 % of the total soft landscaping areas (42,000 m²) are designed to be planted with grass/lawn and rest of vegetation are shrubs, succulent and cactus, hedges, ground covers and trees that are adaptive to the climatic region and require less water.
- Vegetation and shading are selected to encourage greening through native, low impact or productive vegetation to improve the urban living and enhance quality of lives and to minimize adverse wind conditions in surrounding spaces at the pedestrian level and contributed also in minimizing Heat Island Effect.
- Maximum irrigation requirements are set to ensure that the procured landscaping material reduces water consumption. The use of an evaporation-minimizing irrigation system such as subsurface or drip irrigation are specified.
- Irrigation with TSE water to be used to reduce outdoor water consumption of potable water sources. The TSE to be used in the irrigation of the landscape, trees, and small trees.
- The use of hard landscape sustainable materials such as recycled asphalt surface are also considered. Asphalt surface finish mixed with rubber particles from recycled tyres.
- The bicycle infrastructure is frequently and conveniently located and is appropriate for use by People.
- Decorative street lighting poles are specified with LED Lighting control system.



SUSTAINABILITY: The Importance of Sustainable Infrastructure

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2.2. Storm Water Drainage System

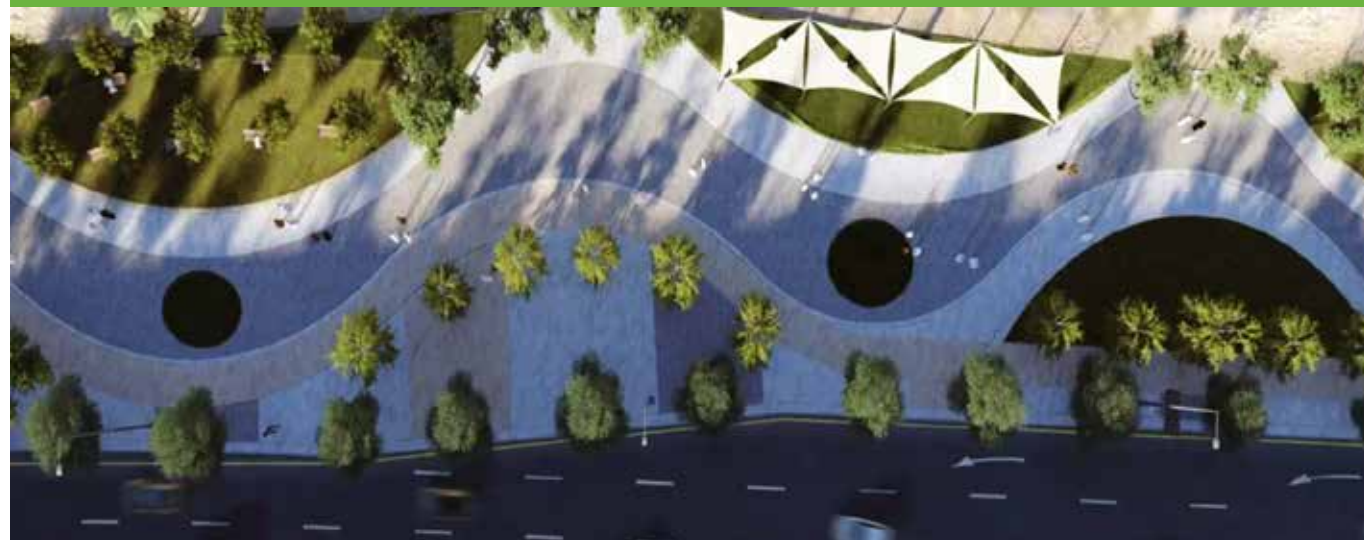
- The design considers that contamination of waterways is minimized by developing a storm water drainage system with settling tanks and filtration system.
- Project rainwater management plan including provisions for catching, storing, treating water, promoting infiltration and storm water treatment plan;
- Runoff are managed by designing an attenuation tank to cater the road tunnel catchment flow based on the 24 hours 100 years storm event considering 3.0 mm/hour rainfall intensity to accommodate 24 hours storage capacity and to minimize the amount of rainwater entering directly the storm sewers and cause flooding to the network system.
- To reduce the possibility of poor water quality and future contamination of waterways and in order to reduce the burden on public treatment facilities, sand trap and oil interceptor chambers to be provided in three separate locations within the attenuation tank to trap and monitor the impurities of the incoming storm water from the highway. The oil interceptor compartment is provided to hold tunnel inflow at least 6 hours storage inside the oil interceptor compartment with a capacity of 600 m³ in the event of contaminated incoming water from the tunnel.
- The feasibility and effectiveness of porous road surfaces are considered in the public realm for water infiltration to reduce surface water run-off which limits the amount of storm water flowing into the drains and neighboring properties or streets and which decrease the energy needed for pumping and treating water.

2.3. Public Realm

- The public realm are designed taking into consideration the reinforcement of the heritage and cultural identity of Qatar.
- The design considers the pedestrian connectivity among some bridges.
- Minimum shading targets are set to ensure thermal comfort in the public realm.
- Appropriate design is used to minimize adverse wind conditions at pedestrian level.
- All pathways meet but not significantly exceed minimum illumination requirements.

Pedestrian Connectivity, B5 + B6

- Green Ribbon Landscape Pattern
- Design approved by Ashghal RDD
- Design in conditionally approved by PPD
- Ave. shared path with 3.0 to 4.0 m
- Ave. segregated sidewalk 2.0 to 3.0 m
- Ave. segregated bicycle path 2.0 to 2.5 m
- Min. segregated bicycle path length 200 m
- Ave. landscape area 4.0 to 5.0 m



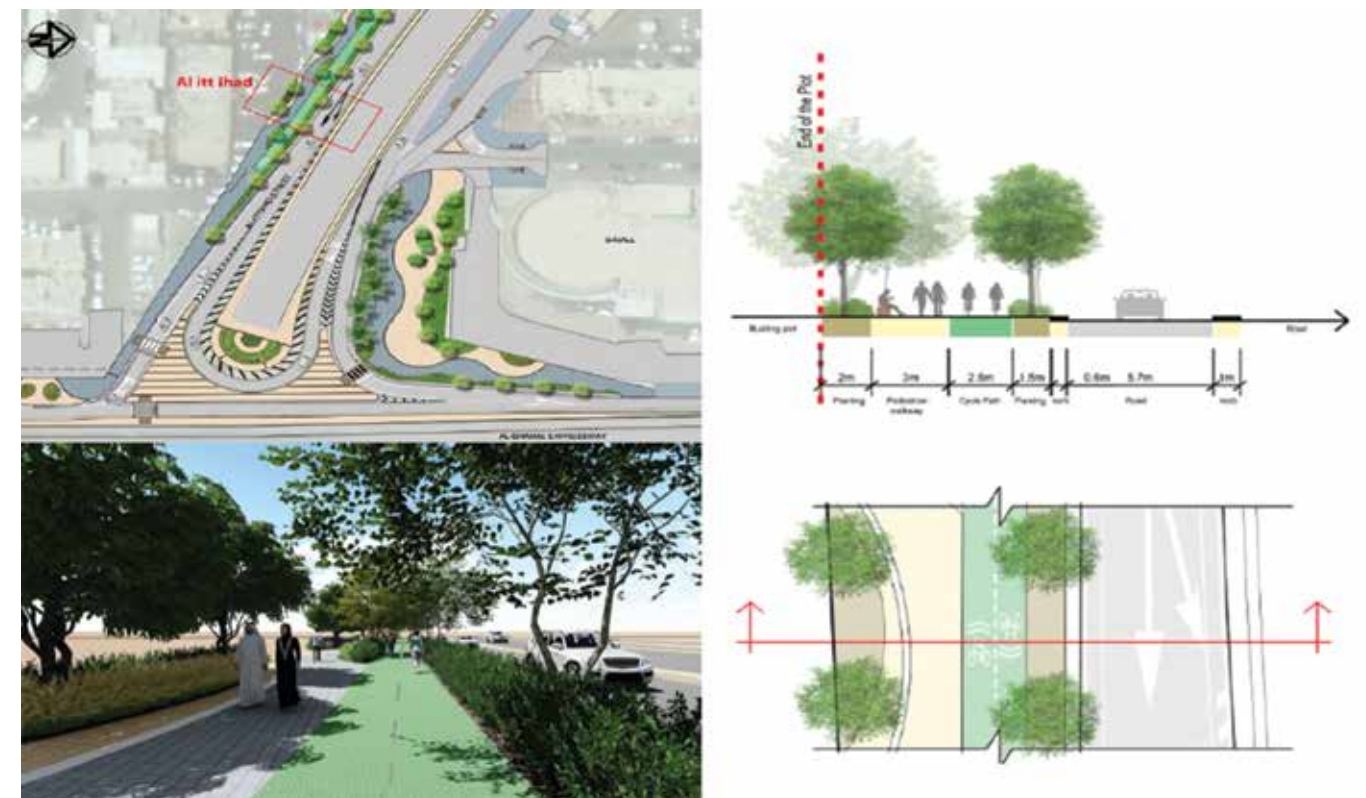
SUSTAINABILITY: The Importance of Sustainable Infrastructure

2.4. Lighting Design

- The street lighting is designed in accordance with following code and standard; BS 5489:2016 – part 1- lighting of roads and public amenity areas. It is designed to minimize the negative effects caused to the environment. This includes the selection of an optimized lighting solution to reduce light pollution, glare and to maximize the energy efficiency of the road lighting system.
- The design considers the street luminaire that provides optimal spacing for the street poles and at the same time provides comfortable lighting level on the pedestrian walkways on either side of roadways so that the need of standalone pedestrian poles is eliminated.
- The lighting design considers also for external lighting the illuminance levels and upward light emissions to minimize the amount of light emitted to the exterior from the site by maintaining average illumination level of 50 Lux and overall uniformity ratio of 0.4 Uo as minimum performance requirements for under bridge lighting and intersection performance requirements for road classification –A and maintaining average illumination levels of 10 Lux and minimum illumination levels of 2 Lux for bike paths/Pedestrian Walkways.
- Landscape lighting is designed to provide adequate illumination to contribute towards the safe use of the site by both pedestrians and cyclists. Also provides a visually appealing environment and minimize light pollution and visual glare for individuals and neighboring areas.
- Lighting within the tunnel consists of high-output LED fixtures for daytime lighting in the threshold, transition and exist zones and slightly lower wattage LED lighting throughout which shall serve as the night-time and emergency lighting for the tunnel.
- PLC-based control to be provided for the lighting in the tunnel. The lighting monitoring system shall have its main control from the control room, however, the system will have provision for interface with the SCADA system to allow for control remotely.

2.5. Water

- An evaporation-minimizing irrigation system such as subsurface or drip irrigation is specified for landscape -irrigation design.
- Irrigation with Treated Sewage Effluent (TSE) instead of potable water is specified.
- The landscaping design is selected to reduce the need for excessive irrigation.
- Water usage monitoring system incorporated within the project's water infrastructure.





SUSTAINABILITY: The Importance of Sustainable Infrastructure

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2.6. Energy

- LED luminaires in lieu of high-pressure sodium lamps is designed to be installed for all street, bridge, underpass, tunnel and intersection lighting along the 3.6 km stretch of the project scheme. Decorative street lighting poles are specified with LED Lighting control system for making the most efficient use of energy with minimum expenditure.
- Energy usage monitoring systems to be incorporated within the project's energy infrastructure.

2.7. Noise

- The project developed a plan to meet the minimum requirements for acoustic quality to protect occupants from outdoor and indoor noise.
- Calculations for traffic noise follow the U.S. Federal Highway Administration's (FHWA) traffic noise prediction model.
- Road materials which reduce traffic noise are considered, with particular consideration of the likely speed of vehicles.
- Noise barriers with suitable acoustic absorption ensuring no horizontal passage to be installed at the identified location (BS EN-1793) are also incorporated into the design to meet noise pollution targets and acoustic conditions.

2.8. Materials

- The use of healthy/non-toxic recycled and locally sourced materials with low embodied energy and carbon from sustainable are undertaken wherever possible. This should promote achievement of regional materials, responsible sourcing of materials, recycled materials and life cycle assessment.
- Estimated quantities for road works and other infrastructure work at the project are more than 43,000 tons of rebar with recycled content of pre-consumer and post-consumer recycled content of 85 % from Qatar Steel, 265,000 m³ of concrete with recycled content of cement Silica and GGBS of 10.85% fly ash, 420,500 tons of asphalt out of which 6,000 tons of asphalt base course laid with 15-to 20% of RAP in road traffic diversions, 394,000 tons of granular subbase and 1,306,000 m³ of general fill base 90-95% processed and reused onsite from the onsite excavated material.
- Materials and finishing with high Solar Reflective Index are specified to minimize heat gain. Non-roof heat absorption reduction strategies of the project include materials covering a minimum of 50% of the pedestrian paving material such as the interlock paving, granite paving and cobblestone paving with manufacturer SRI of at least 29.

2.9. Management & Operations

- A comprehensive Commissioning Plan will be developed to ensure the proper design, construction, calibration and performance of all critical building systems requiring commissioning: safety systems, HVAC, lighting, electrical, water-use, etc.
- Energy meters to be installed for energy consuming system within the building tunnel. Separate meters are to be provided for the various systems to be monitored.
- An Automated Control System will be installed to control and monitor major building tunnel systems, including safety, cooling, ventilation, lighting, electrical etc.
- The Automated Control System Plan will outline preventative maintenance program to ensure that components are tested, repaired, or replaced at the intervals recommended by the manufacturer.



SUSTAINABILITY: The Importance of Sustainable Infrastructure

Pedestrian Connectivity Overview, B5 + B6



2.10. Carbon and Climate Change Contributions

- Provision of a transit- and pedestrian-oriented corridor will integrate pedestrian and cycle ways, public transit and park and ride provisions to maximize modal shift away from use of private automobiles, reducing emissions.
- The use of locally sourced materials with low embodied energy and carbon are undertaken wherever possible.
- The use of tunnel monitoring sensors designed exclusively for road tunnel application that provide all the essential measurements necessary to monitor the tunnel atmosphere. Air quality monitor for carbon monoxide, oxides of nitrogen. Visibility, air flow, wind speed and direction are also measured. The device measures the concentration of pollutants directly, instantly, and automatically (Real Time Continuous Monitoring Sensors).

2.11. Socioeconomic Effects

- The design of the project provides a higher quality urban environment, enhancing the urban realm including landscaping and streetscaping.
- Improvements in connectivity and reductions in congestion are designed to support new development and attract investors.
- The streets are designed to promote natural surveillance and feelings of safety and security.
- No roundabouts are included within the design.
- The project scheme is designed to ensure safety, in particular through adhering to the Qatar Highway Design Manual through design speeds, junction approaches and link roads, radii and super elevation, and grade.

2.12. Public Transport Service

- Existing and planned public transport services is in the vicinity of the project area. The location of the proposed bus stops and design standards for the bus stops are also confirmed by the dedicated authority.
- Doha Metro Phase 1 is now operational; construction was completed and was opened to the public after December 2019. Doha Metro Green Line Phase 1 passes approximately 500m to the south and east of the Al Bustan North project area.
- In addition to Doha Metro, long distance freight and commuter lines are also proposed in the vicinity of the project. Long Distance Rail Phase 4 (National Commuter Line C 10) will pass under parts of Al Bustan North in a tunnel. Along with Doha Metro Green Line Phase 2, this is also expected to be constructed post-2030.

2.13. Design Optimization

- The overall change in the reference design for the Al Bustan North Project is considered as sustainable positive element as it reduces excavation, dewatering, land expropriation during the construction phase. The retention of the roads will ensure better utilisation of the current structure, prevents pollution caused by reducing the need to harvest new raw materials, reduces the amount of waste that will need to be recycled or sent to landfills and reduce cost.



Mall of Oman

Awarded with LEED Platinum Certification

Article by: **B. Alhusseini**

The joint venture (JV) of **Consolidated Contractors International Company (CCC)** and **Shapoorji Pallonji Middle East's Mall of Oman Project** was awarded the **Leadership in Energy and Environmental Design (LEED)** Platinum certification in May 2022. The Mall of Oman project achieved a platinum certification under the LEED 2009 Core and Shell Development rating system with a total of 81 points.

The **Mall of Oman** was built using low environmental impact construction materials: approximately 22.95% of the materials used in the construction were recycled-content products (the product was manufactured with recycled materials either collected from a recycling program or from waste recovered during the manufacturing process) and over 42.99% of the used materials were locally sourced. More than 82.5% of construction waste was diverted from landfill. The project achieved energy savings of 28.59% and a water-saving of 49% from the LEED design baseline. Social benefits include the creation of approximately 3,500 jobs as well as improved access to activities that support health and well-being.

The Mall of Oman project was fully developed in building information modeling (BIM), which resulted in the leveraging of BIM through the design and construction phases. In line with the Mall of Oman project sustainability goals and throughout the development of the eco-friendly integrated payment platform, the process of progress collection, verification, and reporting changed from the traditional process to a paperless workflow. Additionally, the BIM models assisted in reducing material waste by providing accurate quantities and predictions at early stages.

The Mall of Oman is the largest building in Oman and the country's first major retail project to obtain this significant accreditation. Additionally, the Mall of Oman was named the Sustainable Project of the Year at the Construction Innovation Awards 2021 held on 29 September 2021 in Dubai, U.A.E.

"The Mall of Oman project enhances Majid Al Futaim (MAF)'s reputation as a leader in sustainable retail development in the region. We are proud of all the construction team who maintained the standards throughout the construction process and helped us achieve this outstanding LEED certificate in addition to our construction sustainability goals."

LEED certification identifies Mall of Oman as a showcase example of sustainability and demonstrates your leadership in transforming the building industry.

Maresh Ramanujam
President & CEO, U.S. Green Building Council



SUSTAINABILITY: The awarded Mall of Oman with LEED Platinum Certification



Volunteering Activities CSR Projects

Article by: R. Nasser / D. Ntalachani



Contribution to CSR Initiative

CCC Staff are encouraged to come up with ideas and activities related to CCC's CSR Initiatives including **Going Green** and community involvement events. Please send your ideas, initiatives and achievements to "CSR-CCC" email address csr@ccc.net.

Economic Empowerment for Saudi Women

On April 1, in partnership with the Education for Employment (EFE), CSR launched the project entitled: **Economic Development for Saudi Young Women**. The 12-month project aims to address employability and economic development through a demand-driven training linked to jobs as one of the key tools for reducing unemployment and expanding economic opportunities for Saudi youth.

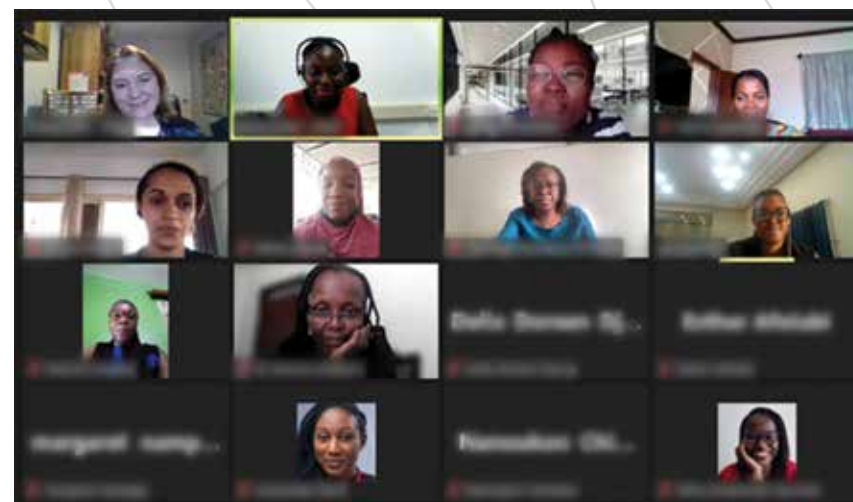
In line with Saudi Arabia's Vision 2030, the project will target 20 underprivileged and unemployed women with education ranging from secondary to undergraduate degrees. The partnership with EFE falls under CCC's CSR mission to improve the social and economic livelihood of youth by developing and supporting educational initiatives that build capacity and empower people.



The Launching of a New Women in Research Leadership Programme.

In August 2022, CCC announced the continuing partnership with the Africa Research Excellence Fund (AREF), and the launching of a new Research Leadership Program for women researchers from across Africa. The leadership development initiative will develop the leadership skills of 20 early career health researchers from 10 Sub-Saharan African countries, who have already participated in an AREF programme, to help them on their journey towards research leadership. Dr. Delia Doreen, one of the programme participants, is looking forward for the start of her journey in this program stated: *"I am fully committed and intend to participate in the ongoing process where African scientists are resolving African issues and global community problems. I'm putting all my efforts into establishing myself as an independent African woman researcher. This AREF Women in Leadership Programme is definitely the way forward to boost my career. It comes at a turning point for me. I have just joined a new team where I have to manage my own research projects and teams for my research to really have impact"*.

Women researchers in Sub-Saharan Africa face particular issues including gender inequality, bias and stereotypes that create challenging work environments; and a lack of career development opportunities that prevent them from achieving their potential. This leadership development programme will build skills to help women researchers on their journey towards research leadership. Participants will create their specific professional development objectives and will be supported through expert guidance, skills development workshops, mentorship and peer support. Rosie Nasser, CCC's Corporate Social Responsibility Consultant said: *"I am very pleased with our continued collaboration with AREF. I hope that our support will make a difference and help women researchers first, in having equal career development opportunities and second, in reaching their potential."*



Since the launching of the Program, AREF has conducted a training needs analysis to tailor the program to the needs of the participants, paired participants with mentors, delivered virtual training sessions and action learning groups. The training needs analysis indicated that career development mentoring, forming and managing research teams, developing a research strategy and having a work and life balance were some of the important areas that the participants wanted to focus on for their professional development.

At the end of the programme, participants will have developed their understanding of research leadership and themselves as research leaders, learnt how to critically evaluate their development needs and started to take action towards their research independence – including developing their research applications, sourcing potential funding, and having skills and strategies to build their international research profiles. Dr. Dawn Duke, AREF's Head of Research Development said: *"AREF is very thankful for the continued support of CCC. This leadership initiative will help to develop the confidence and skills that women researchers need to develop as research leaders in their institutions and their networks – where they can influence research priorities and deliver quality research that impacts healthcare policy and practice, ultimately, leading to more lives being saved."*



Youth Entrepreneurship and Employability Preparedness Program, Qatar

In partnership with INJAZ Al-Arab, CCC's Corporate Social Responsibility launched the **"Youth Entrepreneurship and Employability Preparedness Program"** to assist 250 Junior High School students in Qatar in acquiring skills and knowledge needed for career choices that lead to success, entrepreneurship thinking, communication and other soft and professional skills. The program will run for 6 months and will be coordinated through INJAZ Al-Arab's Member Nation INJAZ Qatar.



The goal is to equip students with the tools, knowledge and skills required to learn about high-growth career industries, improve their critical thinking, enhance their creativity as well as help them be entrepreneurial in their thinking to meet the requirements of businesses worldwide, and develop innovative personal strategies to achieve lifelong learning pursuits and careers.

CCC's relationship and collaboration with INJAZ Al-Arab in various countries goes back 20 years. CCC's Chairman, Mr. Samer S. Khoury, said: *"We are very pleased with our partnership with INJAZ Al-Arab and for the support they will provide Qatari youth to prepare them to excel in their next phase of their life and in their careers as entrepreneurs."* The program also aims to draw on the involvement of CCC's volunteers in the implementation of the program either through the delivery of the program, or giving talks on various business aspects, or through virtual online mentorship sessions with students.



CSR: Projects and Volunteering Activities

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Summer 2022 University Student Internships at CCC Qatar and Egypt

In today's competitive job market, obtaining a degree in Engineering may not suffice for a student to land a job and internships play an important role in helping students gain the required skills and experience. CCC, in cooperation with Qatar University and various Universities in Egypt, hosted 33 engineering student internships that provided the students with experiential learning through a one-month cycle of office and onsite training. The interns spent time in various departments such as the Engineering, Cost Control, Planning, Procurement, and Quality Assurance and Control departments, before going onsite.



The time and effort of CCC staff given to the student interns helped them gain the required skills and experience and allowed them to see how the theoretical knowledge they learned at the university is put into practice. One of the interns said: *"I learned new terminology used in the industry, and gained various skills which include reading drawings, planning and organization as well as reading technical documents"* and another said: *"I gained communication, organizational, and technical skills including how to work under pressure as engineers always have deadlines to meet"*

CCC's internships provided the students with first-hand exposure working under a mentor which is usually the best way to bridge the gap between the employer's set of work requirements and academic learning. Organized by the Personnel Departments at CCC, the internships fall under one of CCC's CSR main pillars: Education and Capacity Building and address 2 of the UN's Sustainable Development Goals (SDGs): **Goal 4: Quality Education** and **Goal 8: Decent Work and Economic Growth**.



CSR: Projects and Volunteering Activities

DONATING BLOOD SAVES LIVES...
Blood donation drives in Athens, Kazakhstan, and Qatar

On the occasion of World Blood Donor Day, June 14, 2022, CCC employees in Athens and Kazakhstan donated blood to save lives. In addition, in October 2022, a blood donation drive was held among employees at Ras Laffan Industrial City, in Qatar. Organized in collaboration with Qatar Energy and the Hamad Medical Corporation (HMC), 103 employees participated in the drive and donated their blood.

According to the American Red Cross, donating one unit of blood may save the lives of up to three people. Donors also benefit as donating blood helps in reducing cholesterol levels, lowering blood pressure, replenishes blood, and boosts the production of red blood cells.





CSR: Projects and Volunteering Activities

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World Health Day Celebrated by Giving in Kazakhstan and Greece

On World Health Day, April 7, and in cooperation with Emfasis Foundation, CSR in Athens organized a volunteering activity on World Health Day that targeted school children in need of support. CCC volunteers packaged 100 nutritional kits which consisted of various snacks for disadvantaged school children. *"Thank you to our super CSR team and Emfasis Foundation for their continuous support and their offer of relief to people in need,"* said Rana Makarem; one of the volunteers who participated in the volunteering action.



As a Covid-19 precautionary measure, many schools in Athens decreed that only children with packaged snacks can attend school. This measure put some financial stress on families that could not afford this extra cost. To this effect, Emfasis has been supporting these families in various ways in order to help them keep their children enrolled. *"It was a wonderful experience for a great cause! The feeling of knowing you are helping those in need and making a difference is very touching"* said Vanessa Manoura who also took part in the packaging activity.

CCC's contribution and the volunteers' time and effort will assist 100 children. Volunteer Karim Zein who felt happy to take part said: *"It is humbling to realize how impactful even minor efforts can be; and this is only made possible by actual participation."*

On the same day, CSR launched a medication donation drive among employees to provide them with the opportunity to donate any left-over medicine to those living in poverty and do not have access to medicine. The donated blood pressure, heart disease medication and paracetamol and Covid Self-tests were given to the social pharmacy in Maroussi, Athens that caters to the needs of the poor.

In Kazakhstan, a group of CCC employees donated blood at the Blood Center in Atyrau's Regional Health Department, and another group of volunteers distributed medication kits to 10 families in need. The volunteers included CCC's clinic doctors, who conducted an inventory of medical supplies, and all excess medication was packaged in a first aid kit and delivered to needy families living in Yerinkali, a rural district of the Atyrau region. Each kit included several medicines for different uses. Upon their delivery, CCC's clinic doctors explained their usage to the 10 families who received them.

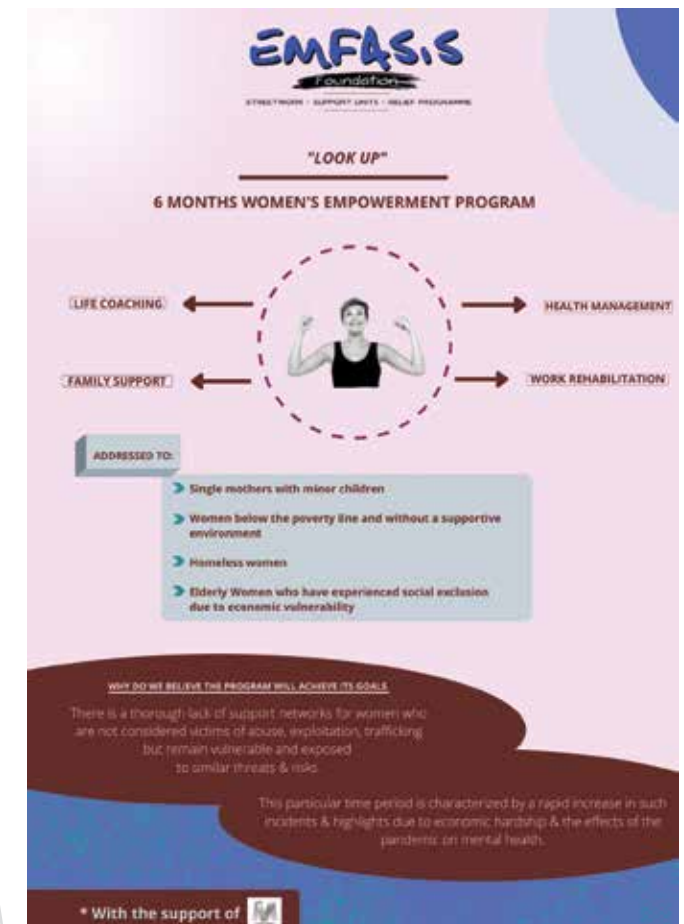
CCC Volunteers in Athens Provide Translation Services for NGOs

In its mission to support disadvantaged populations, CSR engaged two of its volunteers in translating NGOs program documents. Rabi Daoud; Proposal Leader from the Sales and Proposals Department in Athens worked with the Smile of the Child NGO to translate documents from Greek to Arabic. The documents included information to help children and adults in dealing with difficulties and arduous situations. The first document included information about children's SOS Help Line operated by the NGO and staffed with specialized psychologists and social workers who play a key role in preventing and dealing with physical, psychological, and sexual violence that children face.

The second document included tips for parents on the prevention of children's disappearance and tips for children on what to do in case they are lost. The third document included information on how to talk to children about what is happening in the world such as disasters, tragedies, displacement, and wars which they are exposed to through social media or via the internet. The fourth document included information for parents and teachers on how to deal and manage children's emotions if they are exposed to news about wars in the world.



CSR: Projects and Volunteering Activities



Similarly in November 2022, Senior Project Engineer; Nabil Najjar, helped Emfasis Foundation in achieving its mission of supporting socially disadvantaged people especially the homeless and those living under the poverty line. Mr. Najjar translated documents (from Greek to English) related to the Foundation's Women Empowerment Program entitled: Look-Up. The program aims to empower and improve the mental wellbeing of homeless women, single mothers with minors, and women living below the poverty line. Relying solely on private donations, the translated documents will be used by the Foundation to increase its outreach and solicit funding to support its programs.

Since 2013, the Foundation has been designing and implementing Relief Programs for people living or spending a great part of their day on the street. The number of beneficiaries who have received support and relief has so far exceeded 8,000. Mr. Najjar expressed his pleasure to help especially that sometimes a small effort can make a huge difference.



Ramadan Activities in Kazakhstan and Greece



On April 14, and during the month of Ramadan, CCC in Kazakhstan provided 70 people with disabilities with food vouchers worth of 10,000 tenge each. The initiative was coordinated with Atyrau's Department of Coordination, Employment and Social Protection, the Society of the Disabled, as well as with the mayors of the suburban villages of Kayyrshakty and Yerinkala, with whom 70 people from a number of socially vulnerable segments of the population were identified to receive the food coupons. The food vouchers were distributed during an event held at the Society of the Disabled.

Similarly in Greece, between the 7th until the 21st of April, CSR organized a **Feed a Family Ramadan Food Drive** amongst staff who donated a total of 167 kilos of basic foods. Moreover, CCC donated a total of 67 kilos of foods including olive oil, sunflower oil, sugar, rice, flour, pasta, lentils, and beans. The initiative was organized with the Goodwill Caravan (GWC); a non-profit organization that caters to the needs of disadvantaged populations such as refugees, with special focus on emergency aid distribution, sheltering and providing legal and medical support to the most vulnerable.

On April 21st, two of CCC's volunteers; Rana Makarem, and Dimitra Ntalachani transported the food donations to GWC's warehouse where they helped in organizing and packaging all the donations. The packaged food boxes were delivered to 20 families (48 beneficiaries of GCW) from Afghanistan, Iran, Syria, and Egypt.



Decoration of Children's Shelter Home, Athens, Greece

In coordination with the Smile of the Child NGO, CCC volunteers decorated the shelter home of 20 children of various ages and social problems. In a few hours of their time and effort, Rana Makarem, Tarek Hamid, and Paula Makris decorated the entrance hall and all doors of common rooms with wall stickers and placed the name initials of all the children on the doors of their bedrooms. *"Everything today was well organized, and we received direct feedback from the kids and staff who were very happy with what we did,"* said Tarek Hamid.

The volunteers also hung dreamcatchers and wooden decorations on the trees in the yard, which simply made the house come to life. When asked about her volunteering experience, Rana Makarem said: *"It has been a pleasure to give back to the community, especially activities that benefit children. Thank you, CSR team, for your continuous effort and opportunities."*





CSR: Projects and Volunteering Activities

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Environmental Awareness Activities on World Environment Day in Kazakhstan, Greece, and Qatar

The World Environment Day was initiated by the United Nations Environment Program (UNEP) to encourage worldwide awareness and action to protect the environment.

In **Kazakhstan**, CCC's CSR celebrated the day by organizing two environmental-related activities. The first activity engaged 32 CCC volunteers in cleaning up the surrounding area around Atyrau's production base, and the second involved a drawing competition among CCC employees' children.



The environmental drawing contest was announced in the Tengiz field among children grades 1 to 4, and grades 5-7 in May 2022, to be submitted by June 3. As a result, 60 drawings were submitted from 58 children, of which 24 winners were selected by the environmental committee. The 1st, 2nd, and 3rd place winners from the 1st to 4th and 5th to 7th grades were announced in an event held on CCC's premises where all the drawings were displayed.

In **Qatar**, From June 5 until June 9, CCC carried out significant environmental awareness-building activities among all of its workforce to highlight that saving the earth is the responsibility of each and every individual. The World Environment Day, was an opportunity for CCC to remind everyone about the importance of protecting our earth and to inspire and instill positive change among staff. The environmental week was inaugurated in a gathering where CCC's management and Qatar Gas talked about the importance of the World Environment Day, and all employees took the oath to conserve resources and reduce pollution.

The five consecutive days were filled with awareness building and practical activities to engage staff in such activities as tree planting near the project site offices and camps, and attending various talks and trainings on waste management, waste segregation for recycling, plastic waste reduction, and the benefits of recycling. After each talk and the distribution of useful information through posters and mass emails, staff was invited to participate in various Challenge of the Day events including:

- Reducing the use of energy Challenge Day
- Managing Food and Plastic Challenge Day
- Paperless Challenge Day
- Reuse, Recycle and Save Water Challenge Day
- Reduce the Impact of Carbon Emissions Challenge Day

In addition to the above activities, an environmental quiz was conducted and a waste reuse competition was held on-site inviting staff members to submit their innovative ideas on repurposing an old item into something new. The activity was designed to create awareness about reusing old items instead of throwing them away as waste. The winners of the best idea competition received prizes and cash rewards were given to everyone who participated in the competition.

CCC recognizes that its long-term success is directly linked with the existence of a prosperous global society and a greener environment, thus its sustainability policy is based on the 3 pillars of sustainable development: the economy, environment and society and is committed to reducing the environmental impact wherever and whenever possible.

In **Greece**, CCC volunteers played an active role in protecting marine life. In coordination with Safe Water Sports NGO, CSR in Athens organized the clean-up of Kavouri Beach, located in the south of Athens. CCC volunteers and volunteers from Safe Water Sports spent 2 hours cleaning the beach from all kinds of waste including plastics, cans, and cigarette butts. The efforts of volunteers contributed to the improvement of the coastal and ocean ecosystem by ensuring that the solid waste does not trickle down into the ocean and kill or disrupt the marine life or aquatic life cycle.



CSR: Projects and Volunteering Activities





CSR: Projects and Volunteering Activities

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Sustainability; a Core Value of CCC

Guided by CCC's commitment to responsible growth and respect towards people and the environment, and as an advocate of the global sustainability agenda and the United Nations Sustainable Development Goals (SDG's), CCC this year participated in Qatar's Sustainable Week held between October 8 and 13. The week was organized by the Qatar Green Building Council and Earthna Center for Sustainable Future to promote the nation's sustainability vision, encourage, and engage the larger community to achieve the nation's sustainable development goals, and highlight the importance of how we can meet our needs without compromising the ability of future generations to meet their own needs.

CCC projects in Qatar took part by carrying out various awareness building activities among its staff as well as engaging in community work. These activities included:

1. **Sustainability Awareness Building:** included sending out informational videos, posters, and a tool-box on environmental sustainability and how to minimize the use and consumption of resources such as wood, steel, concrete, water, paper, how to save energy, and tips on reusing and recycling of material.
2. Carried out a **Paperless Day** on all project sites, where all printers were switched off, and separate bins were placed for paper recycling.
3. Organized **Photo Sessions** with client representatives, project management team, site supervisors and staff members holding sustainability related posters.
4. Engaged employees in **Planting and Trimming Trees** on project sites to increase awareness on the importance of the activity to decrease and diminish the unfavorable effects of climate change.

Through its participation in the Qatar's Sustainability Week, CCC renewed its commitment to implement sustainable construction projects and reinstated its recognition that its long-term success is directly linked with the existence of a prosperous global society and a greener environment.



Ramadan Clothes Donation Drive in Qatar

From April 9 until the 21st of May 2022, CSR in Qatar in coordination with Qatar Charity organized a clothes donation drive among CCC employees working at all project sites. A total of 17 CCC volunteers were designated as responsible personnel for collecting and organizing the donations in 15 drop-off locations, and for transporting them to Qatar Charity. As a result, a total of 220 boxes of clothes were collected and delivered to the Charity which in turn will distribute to those in need.



Eid Al Adha Giving in Kazakhstan

On the occasion of Eid al Adha, CCC's CSR in Kazakhstan coordinated with the governor of the Atyrau region and the Public Association of Disabled People to provide 50 disabled and low-income families with food vouchers. The needy families from the Atyrau and surrounding areas of the city each received a voucher worth of 10,000 tenges to use for buying food and basic necessities for the household.



Exposure of Youth to Safety and Health Measures, Kazakhstan

On World Youth Skills Day, CCC in Kazakhstan hosted youth members of the Youth Lifeguard Public Association to train and demonstrate to them safety measures on the project production site of Atyrau. The Association consists of 50 school children aged between 10 and 17 and aims to provide them with the skills needed in emergency situations, improve their physical fitness and introduce them to a healthy lifestyle.



The first stop of the youths was at CCC's production factory, where they were met by CCC's IT engineer, Myrzabek Bakhtiar, who introduced them to the various IT technologies and how they are used in production. The second stop was at the Base fire Department, where they were accompanied by CCC's safety officer, Marat Sultanov, who showed them the fire equipment and inventory as well as the safety exercises and procedures taking place on the Atyrau production site.

The informative tour was concluded with CCC's transport officer, Najaf Aliyev, who talked to the youth about road safety. All the youths were provided with gifts such as backpacks, notebooks, and pens to prepare them for the new academic year.



CSR: Projects and Volunteering Activities



CSR: Projects and Volunteering Activities

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Volunteers' Good Deeds on World Humanitarian Day, Kazakhstan

August 19th marked the World Humanitarian Day, where CCC volunteers decided to act and organize a visit to a family-type children's village and youth home. Located in the suburbs of Atyrau, the children and youth village houses 58 orphaned children aged between 7-18 years old.

CCC's volunteers visited 6 houses within the children's village, and treated the orphans to a pre-planned lunch, and talked about the upcoming new academic year. All the children were also presented with gifts which included backpacks, school supplies, toys, and sweets. The children were delighted, and as a token of their appreciation, sang folk songs and read poems to the volunteers. The visit positively impacted the children and the good deeds of CCC's volunteers elevated the orphans' spirit, mental health, and wellbeing.



CCC Volunteers Raise Hope for Cancer Children, Egypt

On September 1st, CCC volunteers and some of their family members in Egypt visited the Children's Cancer Hospital, where they spent a few hours conversing, playing, and entertaining children during their therapy sessions. The children, whose ages ranged between 4 and 15 years old, were enthused to receive visitors as well as toys and games which helped them to pass the time during their treatment. CCC also donated some funds to assist the hospital in purchasing needed equipment for cancer treatment. The volunteering activity was an equally inspiring experience for the volunteers who contributed to drawing smiles on the children's faces and instilling courage and hope in the children's journey to fight off the disease.



CSR: Projects and Volunteering Activities

School Children in Kazakhstan; a Priority on the International Day of Charity

With the beginning of the school year and on the International Day of Charity, September 5, CCC volunteers in Kazakhstan organized a charity event that targeted school children. The event was organized in coordination with the Office of Employment and Social Programs, the Atyrau Department of Education, and the "Help Mothers" public association, and it provided school children of poor families with school uniforms, backpacks, notebooks, and stationery.



The volunteers worked closely with the "Help Mothers" Association, the local authorities, and schoolteachers, to identify the neediest children of disadvantaged and dysfunctional families as well as children of single mothers raising 2 or more children. Upon compilation of the list and with the support funds provided by CCC, vouchers were distributed to the parents to help them in purchasing the needed supplies for the new school year.

WORLD FOOD DAY CELEBRATED THROUGH VOLUNTEERING

When it Comes to Food Security, "No one should be left behind..."

CCC Volunteers in Greece, Saudi Arabia, and Kazakhstan Help in Securing Food for those in Need...

Ending hunger is not only about supply but also accessibility. According to the Food and Agricultural Organization of the United Nations (FOA), millions of people cannot afford a healthy diet and have a high risk of food insecurity and malnutrition. Thus, Food Banks in many countries were established to help those who have difficulty in purchasing enough to avoid malnutrition or even hunger.

On the Occasion of World Food Day, CCC volunteers in **Riyadh** helped Saudi Arabia's Food Bank in packaging food supplies, including but not limited to oil, milk powder, pasta, rice flour, and canned foods. Similarly, in **Greece**, CCC volunteers helped the Athens-based Food Bank in unpacking and sorting food products collected from 5 major supermarkets, which were distributed to 148 charity organizations. The food products sorted and packed in both countries will go to more than 8000 people in need.

In **Kazakhstan**, CCC collaborated with the Coordination of Employment and Social Programs and the mayor of the Yerinkalsky rural district, to organize a food distribution day that benefited 40 low-income families living in difficult conditions. With CCC's support, CCC volunteers organized the purchase of fresh lamb meat, packaged and distributed to family members.

Thanks to the kind and heartfelt acts of CCC's volunteers in Saudi Arabia, Greece, and Kazakhstan for being selfless and for making a tangible difference.





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Back to School Initiative, Egypt

On October 10, CCC's volunteers in Egypt participated in Misr El Kheir's "Back to School" Campaign by packing 270 backpacks with school stationeries and supplies that were distributed by the Foundation to their student beneficiaries enrolled in their community schools. The volunteers' kind support feeds into the Foundation's continuous mission of providing high-quality educational opportunities for deprived children or at risk of dropping out.



CCC Volunteers Plant Smiles on Children's Faces, Saudi Arabia

On International Children's Day, November 20, 2022, CSR in Saudi Arabia organized an entertainment program for 50 cancer patient children aged between 5 years and 11 years. Held at the National Guard Hospital in Riyadh, the event was organized in collaboration with the Association for Supporting Cancer Children. CCC's volunteers: Sarah Mubarak Aldosari, Fatimah AL-Hathlol, Meznah Ali Rahimi, and Abeer Saqr Alkhaldi, set up a drawing section for the kids, played and painted their faces, and had a nutritious breakfast with them.

World Children's Day was first established in 1954 as Universal Children's Day and is celebrated on 20 November each year to promote international togetherness, awareness among children worldwide, and improving children's welfare. The 4 hours spent with the children brought big smiles, excitement and cheer to children who are confined in a hospital and feeling bored.



CSR: Projects and Volunteering Activities

400 Trees Donated and 150 Planted by CCC Volunteers, Greece

Did you know that one tree can absorb 22kg of CO₂ and produce 117kg of oxygen per year? On November 25, 19 CCC volunteers and their family members planted 150 of the 400 trees donated by CCC. The volunteering activity took place in the town of Paiania, an eastern suburb of Athens, and was organized with the We4All non-profit organization that was established to help earth heal itself and remind people that this planet is our home.



After a few words of instruction on how to plant the seedlings by We4All representatives, the volunteers set out on a two-hour mission to dig, fertilize, plant and water the seedlings of Judas, Carob and Leyland Cypress trees. Tree planting requires strength and effort, but all volunteers worked cheerfully and cooperatively to the beat of the music playing in the background, knowing that every seedling planted will contribute to the purification of the air we breathe, and reduce climate change.



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Tree planting for Cleaner Air in Kazakhstan

On April 16, CCC in Kazakhstan bought and planted 700 trees and tree seedlings in 4 locations: the Besiktin secondary boarding school, the secondary school No. 39 located on the outskirts of Atyrau, and at CCC's accommodation camps of Atyrau and Tengiz field. While 100 tree seedlings and shrubs acclimated to local conditions were planted in the two schools, 500 trees were planted in Tengiz field and 100 in Atyrau.

The activity aimed to raise awareness among school children about the benefits of tree planting, such as reducing the negative effects of gas pollution and dust. CCC's volunteers worked tirelessly to plant tree seedlings, including pyramidal poplar, green ash, maple, and elm trees. All newly planted trees were watered, and organic fertilizers were applied to feed the soil and sustain the seedlings.



Celebration of CCC Volunteers on International Volunteer Day

A Year filled with Giving and Goodness

International Volunteer Day on 5 December was designated by the United Nations in 1985 as the international day to celebrate the significance and potential of volunteerism. CCC has chosen this day every year to recognize, appreciate and thank its volunteers in various areas of operation for all their efforts and contributions in helping those in need.

In Greece, Egypt, Saudi Arabia, Kazakhstan and the UAE celebratory events were held for volunteers where they received small tokens of gratitude along with certificates of appreciation.

In Greece, the 1st prize went to Zahida Khanum, the 2nd prize went to Nabil Najjar, and the 3rd prize went to Naim Trabelsi. All three volunteers volunteered with various NGOs in various tasks that included management of commodities, mentoring of youth, and translation of organization program documents. During the online celebration event in Athens, Chairman of CCC Mr. Samer Khoury, acknowledged the volunteers' efforts and hoped that the culture of volunteerism at CCC will continue to flourish in the coming years.



Since the establishment of CCC's Volunteering Program, CSR has recruited more than 1,700 volunteers who have so far helped more than 400,000 people in Qatar, Kazakhstan, Saudi Arabia, Egypt, Greece, Oman, Lebanon, Mozambique, Botswana, and Algeria. In her keynote speech, CCC CSR Consultant Rosie Nasser addressed the volunteers by saying: *"You are indeed the reason for the continuous success of the Volunteering Program at CCC, and the driving force behind CSR's mission to improve people's living conditions. A million thanks to all of CCC's volunteers, we couldn't have made it without you."* Ms. Nasser thanked the efforts of all the CSR Coordinators in all of CCC's areas of operation saying: *"that they too have voluntary positions and without them we couldn't have helped so many people."*



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Act together to build a Positive Safety & Health Culture

The annual **World Day for Safety and Health at Work** was celebrated in a special way this year in Qatar. The aim was to raise awareness on safety and health, and promote the prevention of occupational accidents and disease among staff members.

Held at **North Field Expansion Project**, the whole day event featured several activities including discussion talks on the culture of safety, practical demonstrations and trainings on how to deal with chemical hazardous substances, heat stress, first aid, and firefighting.

The event was attended by more than 1400 CCC personnel and other companies including COSMOZ, HILTI and ENERTECH QATAR who participated in the training and booth organization and contributed to the success of the event. In addition to the trainings, the day featured games, quizzes, and award distribution for the best personnel who applied the safety procedures.

At the end of the day, a survey was conducted to assess the employees' satisfaction and the results indicated that the event increased understanding, dialogue, and promoted the culture of safety and health. In addition, the workers' safety motivation was increased, and safety awareness and behaviors were brought to the forefront through the discussion talks.



CSR: Projects and Volunteering Activities

Employee Welfare Activities on World Health Day, Kazakhstan

On the occasion of World Health Day, the management of the CCC undertook several initiatives to promote and increase awareness about the importance of the health and wellbeing of employees. CSR organized a health seminar, basic health screening, and a sports activity for CCC employees in Atyrau and Tengiz field.

A health seminar was held at CCC's Atyrau camp premises to increase awareness about the importance of maintaining good health. The seminar was inaugurated by Deputy Director-General; and CSR Lead Coordinator; Amin Mushtaha, before giving the floor to the clinic doctors; Dr. Marat Kydyrbayev and Dr. Zhanna Turganbayeva, who talked about the importance of taking care of one's own health, and the significance of going for regular visits to doctors for check-ups. They also spoke about protective and preventive measures against the coronavirus and the importance of the recovery process.



On the same day, employees were given the opportunity to visit the doctor's clinic for basic health screening tests to determine the presence of diseases and adverse health conditions prior to the onset of signs or symptoms, as well as to identify risk factors that contribute to the occurrence of diseases. Some of the tests included: temperature measurement, blood pressure screening, and visual examination of the body, among others.

In the Tengiz field, and to highlight the importance of physical activity in controlling weight, reducing the risk of heart disease, and improving mental health, a mini-football competition was held after working hours among CCC employees and CCC's contractors. Five teams participated, and the winners of the 1st, 2nd, and 3rd places were awarded cash prizes.

The employee welfare activities that aimed to preserve the health of employees and their family members motivated staff members and created more health awareness.





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World Health Day - Announcement of Health Champion Awards in Saudi Arabia

CSR in Saudi Arabia chose April 7; World Health Day as the day to announce CCC's 5 health champion award winners to highlight the importance of physical fitness on health. A celebratory event was organized at South village BACS recreation center where the camp managers delivered a message on the significance of health and fitness. The criteria for winning included regularity in attendance of fitness sessions, and the ability to reduce body weight by at least 5kg within 3-6 months. The five winners: Jitendra Kumar Saini, MD Tahir Sheikh, Marouf Muhammad, MD Ramzan, and Jedee O-Leip-pan received award certificates and trophies.



CCC's fitness program at BACS is spearheaded by the Welfare Department and the gym instructor; Rainier Noche, who in the midst of the Covid 19 pandemic, when the gym was closed down, kept the momentum going by introducing the field exercising program for CCC employees who wanted to stay fit and lose weight. The gym instructor provided program participants with individualized fitness plans to achieve their fitness goals, and monitor their progress at regular intervals.

Increasing Oxygen Levels at South Village Camp, Saudi Arabia

World Health Day was celebrated at Riyadh Metro Project by rewarding workers at the South Village Camps who took their own initiative to plant flowers and greenery in front of their residential quarters and in the kitchen garden. In a small event, the workers were recognized and given trophies for their environmental work and effort. In addition, Mr. Ali Mohammad Touby Ibrahim, the camp gardener, was recognized for his efforts and was named "Oxygen Man" of South Village for planting, pruning, and maintaining around 1,500 trees around the Camp. The winning workers were provided with seeds of different vegetables to encourage them to continue their journey of planting and greening the Camp.



CSR: Projects and Volunteering Activities

CCC Children's Retreat at Eurasia, Kazakhstan

In coordination with the regional Public Association of Trade Unions of the Atyrau region, CCC organized a recreational activity for 70 CCC employees' children at Eurasia Wellness Center. Located in the middle reaches of the Ural River, Eurasia is a touristic Center that offers its clients various leisure and sports activities in a relaxing environment.

Divided into two groups, and on two different occasions (in June and July), children aged between 6 and 14 years spent 10 days in Eurasia and were accompanied by the chairman of the Trade Union Association, the security service staff, and doctors of the CCC clinic. The children spent a great time connecting with each other, playing sports competitions, taking river excursions, picnicking, hiking, and watching entertainment shows. The activities were administered by the Center's qualified teachers and sports instructors. The trip added a good new memory to the bank of their childhood moments.





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Blood Cancer Awareness at CCC Qatar

In coordination with the Qatar Cancer Society, CSR in Qatar organized an online awareness session for CCC employees. Founded in 1997, the Society is a non-profit humanitarian charity that aims to prevent and control cancer by raising awareness and educating the community, as well as supporting cancer research.

The online awareness session focused on blood cancer and was presented by health educator; Nour Makkia, who talked about the main types of cancer; leukemia and lymphoma, the risk factors that increase the chance of getting the disease, signs, and symptoms, as well as prevention measures. Besides the awareness session, CCC distributed informative awareness materials such as posters and videos to all CCC employees.

CSR hopes to continue its collaboration by engaging staff members in volunteering activities to help assist the Society in the achievement of its mission and programs.



Appreciation of CCC's Workers on Builder's Day

On August 14, CCC in Kazakhstan, in cooperation with the Trade Union Organization, celebrated Builder's Day by organizing a sports and musical event for CCC and subcontractors' employees at the Tengiz field. The day was inaugurated with the opening remarks of the project manager, the late Munir Said, and the Chairman of the Union; Mr. Zhaksylyk Musrepov, who congratulated the team and presented them with thank you letters and symbolic gifts as a token of their appreciation for their hard work.



Even though engineers and architects have their separate professional holidays, Builders' Day is a professional holiday for all people involved in the construction process. It is marked with official ceremonies, concerts, exhibitions, and other festive events. At Tengiz Field, employees relished their day by playing competitive sports games such as mini football, table tennis, tug of war, and arm wrestling, and winners were awarded cash gifts. The day was concluded with a concert where employees enjoyed their time while teamwork and spirit were strengthened.



CSR: Projects and Volunteering Activities

Sports and Games

Kazakhstan



A sports and chess tournament was organized at Tengiz Field where employees participated in competitive games of mini-football, volleyball, table tennis and chess. The winners of the competition were awarded with certificates and monetary prizes. The activities promoted a healthy lifestyle and enhanced collegiality and team building amongst staff and contractors.

Saudi Arabia

Between October 6 and November 17th, 19 cricket matches were held between 12 teams formed at BACS Project. The competition was overseen by Camp Manager; Mohammad Kalso and a 12-member Sports Committee. The South Toofan team emerged victorious and won the 2022 Cricket Championship.



Basketball, cricket and football tournament held on May 5, 2022 in Qatar





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Greece



On October 2, forty-five CCC employees and their families in Athens participated in the annual Race for the Cure. The race is organized on an annual basis all around the world and in Athens by the Hellenic Association of Women with Breast Cancer "Alma Zois" to increase awareness about breast cancer and to raise funds for its prevention. To support the mission of the Association, CCC employees purchased T-shirts to assist the Association in raising public awareness, promoting prevention and early diagnosis of the disease, as well as support those who are currently living with breast cancer.



CSR: Projects and Volunteering Activities

Lebanon



CCC Employees Participate in the 20th Edition of the Beirut International Marathon. On November 13, CCC employees and their family members in Lebanon participated in the 5 km fun race for a cause organized by the Beirut Marathon Association. The event comprised several races and brought together thousands of people from all over Lebanon for various causes. CCC this year supported the Neonate Fund at the American University of Beirut Medical Center (AUBMC). The Fund supports needy families of premature and sick newborns admitted to the neonatal intensive care unit at Medical Center, a much-needed support especially during the unprecedented financial crisis that the country is going through.



MILESTONES

Rami Abou Hweij (ZFCE Project Administrator, Abu Dhabi) and his wife Hanin Fatayerji are pleased to announce that they have been blessed with a beautiful baby girl called **Kanz**; she was born on 09.09.2022 in Lebanon.



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