

# **CONSOLIDATED CONTRACTORS COMPANY**



**UNITED NATIONS GLOBAL COMPACT INITIATIVE  
COMMUNICATION ON PROGRESS  
JANUARY - DECEMBER 2008**



**WE SUPPORT**



**CONSOLIDATED CONTRACTORS COMPANY**  
**COMMUNICATION ON PROGRESS**  
**JANUARY - DECEMBER 2008**



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## **CORPORATE PROFILE**

**Consolidated Contractors Company (CCC)** is a contracting company formed in 1952 and incorporated under the laws of Lebanon. The managing office is presently located in Athens, Greece.

CCC is by far the largest Engineering, Procurement and Construction Company in the Middle East and is rated by the Engineering News Record (ENR) magazine as #19 among International Construction Companies. CCC currently operates in 40 countries across 4 continents, employs over 125,000 employees from over 85 nationalities, building some of the most challenging and complex facilities.

Drawing on its long and successful experience, CCC can provide a full range of projects services, from Project Development, through detailed Engineering, Procurement and Construction, to Start-Up, Operation and Maintenance pertaining to the following:

- ❖ Buildings and Civil Engineering Works
- ❖ Oil & Gas, and Water Pipelines
- ❖ Oil & Gas, and Petrochemical Plants and Refineries
- ❖ Power Plants
- ❖ Marine Works
- ❖ Offshore Installations
- ❖ Maintenance of Mechanical Installations and Underwater Structures





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## **STATEMENT OF CONTINUED SUPPORT**

### **Management Commitment to Corporate Social Responsibility and UN Global Compact**

We at CCC are committed to the Corporate Social Responsibility as well as to our commitment to the UN Global Compact Initiative and Ten Principles. CSR to CCC simply means our commitment to our children for a better future. We, as responsible human beings, have a duty to give back to society, preserve nature, protect the world we live in and, above all, we have a duty to our children to leave them an earth with sustainable ecosystems to live in.

In addition, we aim to ensure that business values and behavior are aligned to balance between improving and developing CCC's business as well as improving the quality of life of the workforce, their families, local communities and the society at large.

We strongly believe that our commitment to the CSR policy will help our business flourish in the long term. As is apparent in the attached report, the concept of CSR has been spreading through CCC and many of our employees are becoming ardent advocates of it, initiating innovative ways to promote it.

Committed Corporate Responsibility is always a work in progress like the rest of CCC's business. Every activity and practice is meant to make a lasting impact, economically, socially and environmentally.

CCC's CSR policy theme for 2008 was 'Green Initiatives' which focused on three general issues: Recycle, Reuse, Reduce. We are progressing in implementing this policy and hope to further expand it in the following year.

  
\_\_\_\_\_  
Samer Khoury  
Executive Vice President - Operations



**CONSOLIDATED CONTRACTORS COMPANY**  
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## **WE SUPPORT The UN Global Compact's Ten Principles**

CCC's commitment and support of the UN Global Compact's Initiative and Ten Principles was detailed in our 2007 COP report. The report presented CCC's policies that corresponded to these ten principles (please refer to the report for further details). Since then CCC has been further promoting those principles by actively following those programs and through a variety of new programs such as:

- Providing better education through funding of universities and providing student scholarships.
- Supporting various health, social and environmental programs and organizations.
- Supporting the arts, and cultural and social activities.
- Launching the "CCC Goes Green" campaign.
- Involvement in community development programs
- Supporting numerous Non-Governmental Organizations (NGO's) and charitable organizations that are involved in social, educational and environmental programs.
- Promoting diversity, equal opportunities, human rights, and ensuring a safe and secure working environment of its employees.

The attached **Corporate Social Responsibility Bulletin** which covers the period January - December 2008 further elaborates on the above points and provides a glimpse of the importance of CSR in CCC.

# Bulletin



## Corporate Social Responsibility in the LimeLight

CONSOLIDATED CONTRACTORS COMPANY





*Dear loyal Bulletin readers,*

"Charity begins at home" is an old and famous saying rooted in strong family values.

In a company that has placed, at its very core, deep family values ... this takes on an even stronger meaning.

The modern business term for this is CSR - Corporate Social Responsibility. At CCC, it has been practiced long before the term was coined by virtue of the fact that our deeply pious and humble owners feel strongly about sharing God's blessings.

CSR at CCC has spanned many activities in philanthropy; health; religious diversity dialogues; institutional capacity building; the empowerment of women; employment boosting; music; knowledge based economies and education.

This last subject is particularly dear to our hearts. We have been very active supporting universities like the American University of Beirut, Balamand University, Lebanese American University, Bir Zeit University and Athens Information Technology College to name but a few.



**AUB** American University of Beirut  
الجامعة الأميركية في بيروت



**LEBANESE AMERICAN UNIVERSITY**

**UNIVERSITY OF BALAMAND**



**جامعته بئر زيت**  
**BIRZEIT UNIVERSITY**

We are involved in many initiatives that aim at raising the quality of learning in kindergarten to grade 12 schools in Jordan and Palestine, all operated under the umbrella of the World Economic Forum Global Education initiative.



**JORDAN Education Initiative**



**Palestine Education Initiative**

To name a few of the scholarships we have granted: we have co-financed funding for needy students with the Hani Qaddoumi Foundation in Palestine that benefits hundreds of engineering and IT students annually. A similar smaller arrangement exists with the Athens Information Technology College in Greece.



**HANI QADDUMI SCHOLARSHIP FOUNDATION**



**ATHENS INFORMATION TECHNOLOGY**  
CENTER OF EXCELLENCE FOR RESEARCH AND GRADUATE EDUCATION

Our close relationship with the brilliant US-based Education for Employment Foundation has helped many accountants from Gaza take a mini-MBA course devised by the University of Maryland to improve their employment prospects. EFE also engaged the University of Colorado on a construction management course for West Bank engineers and architects.



**Education For Employment Foundation**

We also happen to be sponsoring the first ever Palestinian representation at the famous Venice Biennale starting this July 2009. This will shine light on a much obfuscated Palestinian human face, culture and professional talent.



Arte  
Architettura  
Cinema  
Danza  
Musica  
Teatro  
Archivio Storico

These successful interventions are the fruits of the owners' direct personal guidance and involvement.

So, friends, do be proud of our CSR programme and try to support it by getting involved. Please read on: a lot is revealed about it in this issue.

*Nafez Hussein*

## CSR: An Integral Part of the CCC Corporate Vision

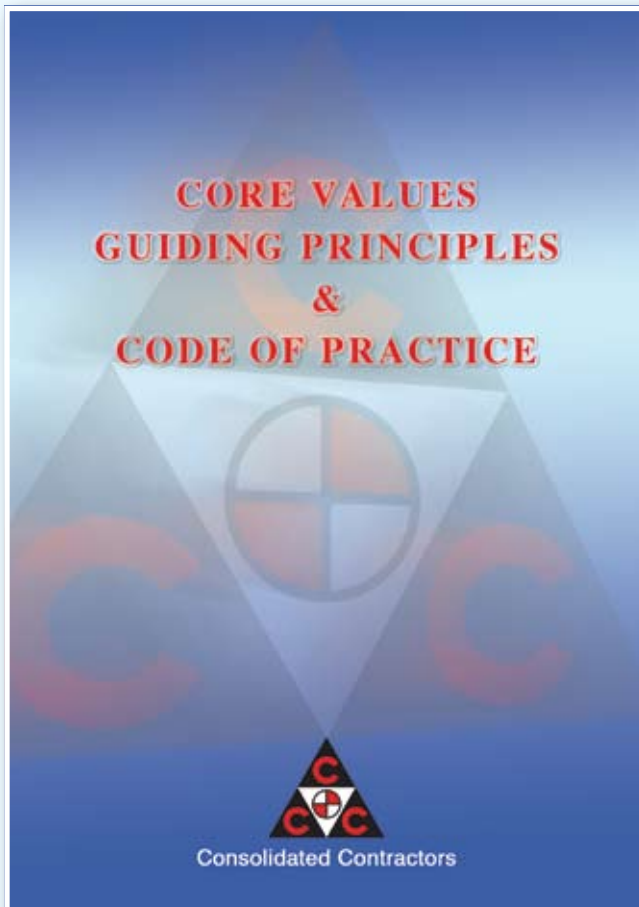
**CCC's Corporate Social Responsibility Initiative (CSR)**, also referred to as Corporate Responsibility or Sustainability, undertakes the role of "Corporate Citizenship" to ensure that business values and behaviour are aligned to balance between improving and developing the company's business as well as improving the quality of life of its workforce, their families, local communities and societies at large.

CCC's CSR Initiative includes programmes related to:

- Environment
- Human Rights
- Workforce and Labour Relations
- Community Involvement

### CCC's CSR Initiative

CCC's Corporate Social Responsibility (CSR) philosophy originated from the founders' strong belief that the company has an obligation towards its shareholders, employees, customers and society. CCC does not exist only to make profit, but rather to improve the livelihood of more than 170,000 employees and their families as well as to serve the societies and the countries where CCC has an operational presence.



CCC's CSR policy is guided by the company's strong and ethical family values and traditions, and ensures that its business values and behaviour are aligned with its Mission Statement; Company Core Values, Guiding Principles and Code of Practice; Health, Safety and Environment Procedures; and Human Resources Procedures.

Globally, CCC's CSR initiative covers humanitarian, environmental, sustainable development of local communities, social activities, equal rights, ethical behaviour and philanthropic activities. CCC is a member of various organizations and sponsors many activities that have an impact on communities worldwide.

### CCC's CSR Commitment

As part of CCC's annual commitment to CSR, "targets" related to the CSR Initiative are set by management for members of the group to achieve and implement during the year. Progress and achievements are closely monitored and measured.

#### CCC and the Environment

CCC has committed to carrying out its activities in an environment-friendly manner by reducing the environmental burden and improving environmental efficiency wherever possible. A number of initiatives to protect and promote clean environment are being implemented including, but not limited to the following:



- **CCC GOES GREEN** Campaign.
- Implementation of the 3 R's of the Environment - REDUCE, REUSE, RECYCLE.
- Paperless environment.
- Utilization of renewable energy wherever feasible.
- Water treatment plants in projects.
- Minimization of the carbon footprint associated with construction equipment.
- Disposal of waste and effluents in a responsible manner.

#### CCC and human rights, workforce and labour relations

CCC demonstrates its commitment to the CCC family by promoting diversity, equal opportunities, human rights and ensuring a safe and secure working environment for its employees. The CCC guiding principles incorporate a diversity programme, which embodies the key principles of respect, valuing differences and inclusion, and measures that ensure respect, fairness and equality among the employees.



## CCC and Community Involvement

Carrying on in the footsteps of its founders, CCC believes that business should be conducted in a manner which will benefit the local and global communities where CCC operates. CCC has engraved its humanitarian and philanthropic footprints in support of social development, health and education in every country or area that CCC operates in or passed through.

## CCC's CSR Global Initiatives

CCC maintains its global participation and memberships in international organizations including but not limited to the following:

- **United Nations Global Compact:**

A strategic policy initiative for businesses that are committed to aligning their operations and strategies with ten universally accepted principles in the areas of human rights, labour relations, environment and anti-corruption. Members since 2001.



- **Global Business Coalition**

- (GBC): An organization leading the business fight against HIV/AIDS, TB and Malaria and the only business-led organization committed to harnessing the power of the business community to fight these epidemics. Members since 2004.



- **Emirates Environmental Group - CSR Network**

A multi-stakeholder forum in the region dedicated to promoting CSR and sharing best practice under the slogan "Building Partnerships for a Sustainable Future".



- **The Disaster Resource Network (DRN):**

An engineering-construction industry commitment to saving lives and livelihoods. DRN acts as a bridge between the engineering-construction industry, humanitarian response organizations and government agencies to improve international disaster response and preparedness operations in vulnerable regions of the world. CCC is one of the Active Senior Partners contributing to the network.



- **UN Global Compact Local Network - Greece**

Launched under the "Hellenic Network for Corporate Social Responsibility" to promote the meaning of CSR to both the business community and the social environment.

## CCC's CSR Partnerships & Sponsorships

- CCC is a Supporter, Partner, Contributor and Sponsor to:

- \* Numerous Local Non-Governmental Organizations (NGO's) and Charitable Societies
- \* Health, Educational, Social and Environmental Programs and Organizations
- \* Cultural and Civil Activities within Local Communities

## CCC's Executive Management Pledges

CCC is always ready to participate and pledge in campaigns originated or sponsored by international organizations for good and honourable causes:

- **CEO Statement - Universal Declaration of Human Rights:**

On the occasion of the 60th Anniversary of the Universal Declaration of Human Rights on December 10, 2008, CCC along with CEO's of other member companies endorsed a statement published jointly by UN Global Compact and UN Human Rights in support of the occasion.

- **A Pledge to Fight against HIV Discrimination and Stigma:**

More than 100 Members of the Global Business Coalition (GBC), representing approximately 5 million employees worldwide, signed a first-ever pledge to stop workplace HIV discrimination and stigma, and CCC was one of the signatories.

## CCC's CSR Contributions to the Communities

Over the years, CCC has participated and contributed generously to the countries and communities in which CCC had operated and passed through. Contributions were in the form of monetary donations and in-kind participation.

To name a few of these countries and areas where CCC's participation has been recognized by the local communities: Azerbaijan, Botswana, Egypt, Ethiopia, Greece, Jordan, Kazakhstan, Kuwait, Lebanon, Madagascar, Nigeria, Oman, Palestine, Saudi Arabia, Turkmenistan, UAE, UK and USA.

Corporate Social Responsibility is the Road Map to a Sustainable Corporate Future.

*Tony Awad  
Corporate Social Responsibility Officer*

## CCC Corporate Social Responsibility Committee - MOA

A CSR Committee at MOA was established in April 2008 with the purpose of strengthening relations with Greek society and extending CCC's social responsibility to all areas of operation. It aims to encourage CCC offices to establish such CSR committees in other countries of operation as a way to strengthen and institutionalize relations with the local communities.

The MOA-CSR Committee has eight members who belong to different departments and who have strong ties with Greek society in addition to having an interest in CSR activities. These members have either a record or an educational background in CSR issues. The Committee meets almost every week and coordinates closely with management on larger policy issues.

The Committee started off with this general goal and gradually worked on focusing its aims to specific areas for higher effectiveness. Through discussions and suggestions from CCC employees and potential organizations, it elaborated ideas for intervention by CCC. As a result, the main areas to be focused on are: the environment, education, socio-economic, and health support while focusing on the first areas in 2008-2009. The MOA-CSR Committee joined other members of the UN Global Compact located in Greece and CSR Hellas as part of asserting its commitment to social responsibility.

In the environment area, the first project that was selected for implementation was the reforestation of an area in Nea Pendeli. It was implemented in coordination with the Municipality of Nea Pendeli along with other companies and volunteer organizations and took place on March 8, 2009 where CCC employees volunteered to plant these trees along with other volunteers.

A second project which is proceeding as well falls within the area of education. The project focuses on encouraging Greek undergraduates and graduates to apply to CCC projects for summer internships and for employment. As for Greek engineering graduates, the CSR Committee is supporting CCC and the HR department in encouraging them to apply to CCC and to secure their employment in one of its projects. It is communicating with Greek engineering universities, agencies supporting student internships and employment and engineering professors. Moreover, the Committee along with the HR department is participating in career fairs organized in Greece to recruit potential candidates.

The third area is the socio-economic area where the CSR Committee targets voluntary organizations serving the most marginalized groups of the community. In this category, CSR Committee Members visited an organization called Kivotos which targets the poor of all ages and

provides them with food and clothing and in emergencies it provides them with sheltering. The Committee is deliberating on which type of support it will provide this organization. CCC's goal is to provide sustainable support that will benefit these groups for the long term. A second organization which is under review is a kindergarten run by an African woman in the area of Kypseli where it offers young children of immigrants opportunities for recreation and pre-schooling.

The CSR Committee encourages initiatives by CCC employees and accepts different suggestions for supporting the community. It invites active employees to speak at its meetings and on ways CCC can encourage these employees to volunteer as part of CCC's interest in social responsibility.

*Salma A. Shawa, PhD  
Training and Career Development,  
HR Department*

## The Routes of the Olive Tree 2008



This important event organized by Olive Ways and Silk Ways was an international route that was scheduled on the occasion of the 2008 Olympic Games in order to spread the symbol of the olive tree as well as the message of the Flame of Peace. The journey started on July 14, 2008 from the ancient City of Messinia, located in South Greece, by a group of 50 motorbikers with sponsor logos placed on their bikes.

During their 46-day trip, the participants crossed Greece, Turkey, Georgia, Azerbaijan, Turkmenistan, Uzbekistan, Kazakhstan, Russia, Ukraine, Moldova, Romania, Bulgaria and back to Greece.

It was planned that 1,000 olive trees be shipped from Greece to Moscow, be displayed at Red Square for a week and after that be moved and planted in the "Routes of the Olive Tree and Peace's Olive Grove" at Sochi city, site of the 2014 Winter Olympics, on the Black Sea. However, due to a tragic incident (Mr. Kalogeropoulos, a member of the Organizing Committee, was killed in a road accident in Georgia) this event in Moscow was postponed until October 2009.

CCC contributed to the event by adopting 10 olive trees and CCC's name and logo will be placed on each one of them. A permanent plaque that bears the names of the Olive Tree Owners will be placed at the Olive Grove and CCC's name will be engraved there as well.

During that trip the participants passed through a lot of important cities such as Izmir, Baku, Ashkhabad, Tashkent, Almaty, Moscow, Kiev, Odessa and Bucharest, where the authorities organized promotional events about the civilization of the olive tree and its products. CCC organized several successful events in Azerbaijan, Turkmenistan and Kazakhstan. On the July 21, 2008 in Baku, CCC Azerbaijan organized a ceremony in front of the Ministry of Sports and the State Olympics Committee, where the planting of an olive tree was carried out by the Azerbaijani Minister of Sports Azad Rahimov, the Greek Ambassador H.E. Themistocles Dimidis, the Executive Di-

rector of the "Olive Ways" Cultural Organization Giorgios Karabatos and the CCC Business Development Manager, Juan Boulos.

Another important country that the motorbikers visited was Turkmenistan: firstly the team of motorcyclists visited Ashkhabad, the capital city where a CCC representative Mr. Nury met the delegation from Greece on July 25. Several meetings took place but due to the heavy schedule that the representatives had to follow, they left, to the city of Mary. In Mary, the motorcyclists were welcomed by another CCC representative Mr. Yazmurad. They made a short trip to historical places such as the ancient city of Merv and Sultan San Dzhar then soon left in order to continue their trip to the next town.

Meetings of special interest took place in Almaty, Kazakhstan as well. Mr. Karabatos had meetings with the Rector of the University and the President of the Chamber of Commerce and Industry of Kazakhstan in the presence of Greek Embassy representatives, the mass media and CCC representative, Ms. Luda Waarie. After all the official ceremonies and signing memoranda of understanding, Mr. Karabatos communicated with the mass media (television channels and newspapers) and mentioned CCC as a sponsor of "The Routes of the Olive Tree 2008".

The extension of the contact network in countries outside the Mediterranean and Europe, as well as the creation of a network of friends of the Olive Tree Routes was successfully accomplished. The route was concluded on August 28 when the motorcyclists returned back to Greece.

George Karabatos, President of the Arab-Greek Chamber of Commerce & Development and of the Messinia Chamber and Executive, Director of the Olive Ways Cultural Organization sent an acknowledgement letter to the President of CCC thanking him for our participation.

*Dimitra Ntalachani*  
Secretary - CSR Committee, Greece





## Summer Training for Greek Students

As part of CCC's Corporate Social Responsibility Programme, the company is seeking to enroll undergraduates from Greek engineering universities for summer training on its construction sites in the Middle East.

The campaign targets Greek undergraduates from the universities of Athens (NTUA), Thessaloniki, Patras, Xanthi, Volos or Crete, willing to work abroad during the summer period.

It is envisaged that we will engage six to eight students from the following disciplines:

- Civil engineering
- Mechanical engineering
- Electrical engineering
- Chemical engineering.

These students will need to have the following qualifications:

- Be 3rd, 4th or 5th year students (out of a five-year course).
- Have a good command of the English language (as a basic criterion).
- Have enthusiasm and willingness to work on site for eight to ten weeks.
- The students will be selected by each university and interviewed (face-to-face) by CCC, for final selection.

This arrangement will be mutually beneficial to the students (because they will gain experience and will be exposed to large international construction projects) and to the company (since it hopes to attract candidates for future permanent employment).

*Demetrius Dadakaridis and Thomas Kafarakis  
CS&QM Department, Athens*

## Donation to Local Authorities



As part of CCC's contribution to the local Greek community, it was decided to donate a fire engine to the municipality of Maroussi. This was a gesture on the part of our company to enhance the fire-fighting capacity of the municipality in which our offices are located.

On the evening of Monday, December 22, 2008, a presentation ceremony was organized by the mayor of Maroussi Giorgos Patoulis, at the town hall. Apart from the mayor himself, also present were the chairman of the city council and the councillors.

CCC was represented by Suheil Sabbagh, Tony Awad, Abdallah Attari and the undersigned. Suheil officially presented the fire engine to the mayor. In his speech he



expressed CCC's gratitude and appreciation of the municipality's continued efforts to expand and enhance their services over the years in which we have been located in the area.

The mayor thanked CCC for their generous gesture and the ceremony ended with hearty applause for CCC.

*Hani Elsafadi*

## The Cardiac Clinic in Addis Ababa

When Samer Khoury recently met Dr. Magdi Yacoub, the renowned cardiologist, he heard about the plans to establish a hospital and research centre for children with heart problems in Addis Ababa, Ethiopia. This was to be a charitable enterprise and treatment would be free of charge.

CCC management decided to donate US\$100,000 to the foundation. The undersigned attended the inauguration ceremony which was hosted by the Prime Minister, Meles Zinawi, and the dinner party which followed was honoured by the presence of the President of Ethiopia, His Excellency Girma Woldemorges.



I was called to the stage to represent CCC and to announce the donation in front of His Excellency the President and about 1,000 other senior officials. I introduced CCC to the attendees and described CCC's intentions to help the community, and outlined our continuous efforts to leave a positive impression wherever we are located.

All in attendance were delighted with the donation, and Dr. Magdi Yacoub personally asked me to cordially thank CCC management for their generosity.

It is worth mentioning here that CCC is conducting a programme to fight HIV/AIDS in the region in cooperation with the Gambella Hospital by educating employees and the public. This has been an ongoing effort since our project started in Ethiopia.

*Boulos Estilyanides  
Project Manager  
Gore-Gambella Road Project*



## How Can We Help CCC Go Green?

### Recycling

Everyone knows businesses generate loads of paper. Unfortunately, most of that paper ends up in the trash, and ultimately in our landfills. But fortunately, there is something you can do about that. And it's easier than you might expect: Recycle!!

Setting up an office for a paper recycling programme is a quick and simple way to reduce waste and help preserve our environment. Paper constitutes the largest portion of our waste stream, so reducing our paper use and recycling paper materials has a lot of potential to reduce the waste flowing into landfills and to save trees at the same time.

### Paperless Offices

The paperless office idea emerged along with the personal computer, its promise being that someday in the future, we will no longer need to use paper because everything will be in digital format. So while the ultimate paperless office remains a dream, eliminating paper from business processes to create a seamless digital workflow is a definite reality.

### Steps towards Recycling & the Paperless Office

A major factor in the success of a recycling programme is to make it easy to recycle. Many companies have started recycling programmes and failed. Where did they go



wrong? Usually they made the process too hard for people to follow.

- 1. Think Before You Ink.** The change has to start here. We all have to change how we look at paper. Before you print out anything, ask yourself if it is absolutely necessary. If you have a digital copy of that e-mail, why do you need a printed version?
- 2. Preview Your Documents.** The average employee prints six totally useless pages per day. All you have to do is walk over to the network printer in your office to see examples of them. I did just that and found a tray filled with blank pages, misplaced spreadsheet fields, and random HTML fields from printed Web pages.
- 3. Print to PDF.** PDF truly is a universal portable document format. Also, just attaching a Word document to an e-mail is pretty universal too! Send or save digital files whenever you can in order to locate and access them in a faster and organized manner.

There are more ways to cut back on paper usage, such as printing on both sides of pages, electronic invoicing, and using multifunction devices to scan rather than copy, but those three steps alone could put a huge dent in paper waste.

There are more ways to cut back on paper usage, such as printing on both sides of pages, electronic invoicing, and using multifunction devices to scan rather than copy, but those three steps alone could put a huge dent in paper waste.

### Facts and Figures

In 2008, 30 tons of paper or, in a more shocking and descriptive way, 6 million sheets of paper were consumed in MOA alone!

Fortunately though, we have managed to recycle,





## Qatalum Reduction Area Project



during the second half of the year, 18% of the above consumption figures.

How much paper are 6 million sheets? In order to have 30 tons of paper, you need to cut 545 trees, and use 7,200 kilowatt hours of electricity. This is equivalent to enough energy to power an average home for six months, almost two million gallons of water and 15,000 gallons of oil. Amazing figures aren't they?

The good news however is that we at CCC have become extremely committed and dedicated to going green and

helping save the environment for our children and for the many generations to come.

In fact, MOA has initiated CCC's mission towards the paperless office by digitizing almost all the company's data and allowing users to access information electronically in an easier and more organized manner.

Hopefully, by the end of 2009, MOA will be considered a 40% paperless office!

Moreover, many CCC projects and locations have joined the global effort to go green, namely:

**QRA Project:** Managed to recycle during January 2008 about 685kg of paper, 260m3 of cardboard, and 200 kg of tin cans.

**Al-Khobar office:** Is already implementing a recycling programme that includes paper, metal, glass, plastic and water consumption.

**SAR Project:** Is already implementing a recycling programme including water consumption, organic waste, solid waste, hazardous waste and recyclable waste



### Environmentally Friendly

Sangaredi Alumina Refinery Project – Republic of Guinea



**Red: Hazardous**  
**Blue: recyclables**  
**Yellow: burn pit**

**Segregation of waste is extremely important, we want to ensure we don't pollute the environment in and around the project site. We have a limited amount of space for waste storage and need the proper type waste to go to the burn pit for elimination.**

- ☑ **Sorting / recycling is a must!**
- ☑ **Must have adequate trash containers and bins located around the site**
- ☑ **Container bins must be emptied on a regular basis**
- ☑ **Houskeeping is important**
- ☑ **Do not mix hazardous waste with other waste**

### In Summary

Recycling is an excellent way of saving energy and conserving the environment, so make it the first step in your commitment to a greener company. Of course, reducing always comes before recycling, so it's important to think of reducing paper usage before we resort to recycling.

Changes in work schedules, energy use reduction and manufacturing processes can all be the next step in making CCC a green and healthy environment to work in.

*Ghassan Hourani  
ISD, Athens*

## A Solar Energy Initiative

The worldwide concerns about climate change and depleting fossil fuel resources, energy conservation and renewable energy have received a lot of attention. Over the last few years, the photovoltaic, concentrated solar power, thermal solar and wind industries have evolved to become multibillion dollar industries. We now find very large scale applications in all of these renewable energy fields.

In line with this strong interest in renewable energy in recent years, CCC has taken steps to position itself to participate in solar energy and wind development. CCC recognizes the vast potential in this field (particularly in solar energy in the Middle East and North Africa). There are also promising opportunities in wind power in some of the countries where CCC is already established.

In early 2007, CCC started a solar energy initiative that extended to i) identifying possible solar energy projects that CCC can take part in, and ii) deployment of solar energy applications in CCC's construction camps. This article concentrates on the efforts to date under ii), the Solar Energy Pilot Project.

### Pilot Project at Simaisma Camp, Qatar

Based on the study "Utilization of Solar Energy in CCC Construction Camps" initiated in February 2007 and concluded in May 2007 to reduce the electrical energy consumed in CCC camps, it was decided to start a pilot project at the Simaisma Camp, Qatar that includes providing hot water (solar heated water) to two junior units, two ablution



*Ablution: Siphon systems (two suppliers)*

units, the laundry and the labour kitchen, as well as photovoltaic lighting at five locations. In the last half of 2007, the systems configurations were completed, the specifications for procurement were prepared, invitations to suppliers were made, the offers received were evaluated, and purchase orders were made to four suppliers. The deliv-



*Junior - Mini Ablution: Siphon systems, including compact type*





*Laundry: Close up of the Siphon Systems and the Collectors of the Forced Circulation Systems*

eries to Qatar of the purchased equipment were made by the end of 2007. The structural supports and mechanical erection of the solar collectors / tanks were completed in June 2008.

The photovoltaic lighting was ready and operational by February 2008.

In addition to the Simaisma solar installations, a new type of solar collector (“New & Efficient”) was installed at the top of CCC’s main building in Athens. The performance of this type of solar water heater has been monitored since February 2008.

The solar heated water systems noted above have been instrumented to monitor the performance of the systems under the actual conditions both climatic and usage of hot water in the construction camps in the Gulf. The monitoring of the New & Efficient system in Athens proved to be quite helpful in guiding the measurements at the solar heated water systems at Simaisma.

In parallel to the pilot solar heated water project at Simaisma Camp, Qatar, surveys of the energy consumption in CCC camps in Qatar, UAE and Saudi Arabia were undertaken. The aim of the surveys is to establish the bases to commence the next step of the pilot covering air conditioning.

The efforts described above tie in with CCC’s other ongoing initiatives: the Green Initiative, the Water Conser-

vation Initiative and all target economical merits (in light of increasing fuel price trends), reducing our carbon footprint, keeping in mind users’ behaviour and operational flexibilities.

To date, a considerable amount of experience has been accumulated on a variety of aspects from the Simaisma solar heated water systems. Considerable challenges stem from the mismatch of the patterns of the use of hot water and the availability of the sun energy during the day, the size of the storage capacity and the interconnection of solar collectors and tanks in a “multi solar – collector tank” as well as the controls necessary to yield optimum performance,

that is, maximum utilization of the available solar energy. The considerable differences in the climate, particularly the ambient temperature in the winter with the summer represent a major factor that also plays in the selection of the optimum operational regimes. Add to these are challenges the need to find the right space with a sufficient area to install the collectors and effectively run the piping between the storage tanks and the users.

The solar heated water systems deployed at Simaisma camp use different types of solar heated water: natural circulation (thermo-siphon), forced circulation and vacuum tube collectors. The measurements / monitoring and the data collection that have been carried out at the Simaisma camp are unparalleled and constitute a pioneering example of solar heated water on such a large scale in the Gulf countries.

Many lessons have been learned and the foundations for effective designs for future applications of solar heated water systems in CCC construction camps are being established.

The deployment of solar heated water systems for the laundry and kitchen in CCC camps are recommended based on experience and economic merits. For ablutions, because of the short time hot water is needed (in the winter: a four-month period) the deployment of the solar heated water systems is marginal.





*Kitchen: Birds Eye View of the Siphon Systems and Collectors for the Forced Circulation Systems*

The photovoltaic lighting limited testing proved that the systems are dependable and reliable and require minimal care; however, photovoltaic lighting is a long way to being economically viable on a wide range application basis in CCC's construction camps.

### Acknowledgements

It is only because of the dedication of many in CCC that the Solar Energy Pilot Project has reached its current status and is able to contribute to CCC's goals and objectives.

As monitoring of the performance of the solar heated water systems at Simaisma continues, efforts are being made to start the second step in the Solar Energy Pilot Project to tackle the air conditioning loads. This entails improved insulation and applying reflective paints to reduce the loads and use of cogeneration.

With CCC's workforce being in the order of 180,000 with more than 75 per cent living in construction camps, continued efforts to minimize the electric consumption and conserve water is a natural objective both from CCC's CSR as well as on economical merits within continuously changing energy supply dynamics.



**Siphon with Vacuum Tube Collectors**

**Siphon Tank with Two Collectors**

**Collectors for Forced Circulation**

*Kitchen: Close up of the Siphon Systems and the Collectors of the Forced Circulation Systems*

Vahe Setrakian has provided overall support in Qatar for the pilot project. The Qatar installation team under Imad Beirouty has been instrumental in bringing the first stage of the project to its current status. Mohie Ddine Naddaf has led the Simaisma team, with the participation of Ahmed Aijaz and Khaled Farhat. The effort of Mahmoud Hayek is acknowledged. Two young engineers, Ayman Badreddine and Toufic Zaraket, joined CCC in August and October 2008 respectively and both have been diligently working in Qatar on solar activities. They have been contributing to the finalization of the systems and

the testing being conducted at the solar heated water and photovoltaic at Simaisma. Ayman and Toufic now form the nucleus of CCC's engineering in solar energy. Gunther Brauburger has participated in all the stages of the pilot project since the inception of the solar effort in February 2007.

Panos Arampos has been instrumental in compiling the data recorded in the HP solar heater in Athens. The support of Athanasios Anagnou is acknowledged. The IT team of CCC in Beirut has provided valuable contributions in the automation of the software that was developed to process the digital readings that are being recorded at the various solar heated water systems at Simaisma. For their support, thanks go to Zuhair Haddad, Aref Boualwan, Sami Souki and Ali Abdel Khalek.

Antoine Nahhas, Muhieddine Eljouz and Anas Hadi-di completed the insulation studies. Bassam Ghaleb and Samir N. Khoury's support to introduce insulation modification in Newfab's cabins are acknowledged. Nasser Nasser, Naim Abu Laila, Nidal Shamar and Majdi Hashem have provided valuable input for the UAE camps. The support of Imad Khaled, Yousef Ghantous and Omar Abdel Qader is acknowledged. The coordination with the Green Initiative and Knowledge Management under Amr El-Sersy and Sobhi Khoury is noted. Irene Plaggessi has provided a lot of support throughout the various steps of the project.

*Hemmat Safwat  
Segment Manager  
Group BOT Power & Desalination Projects*



*Laundry: Vertical tanks for the Forced Circulation systems*



## Reforestation in Pendeli, Athens

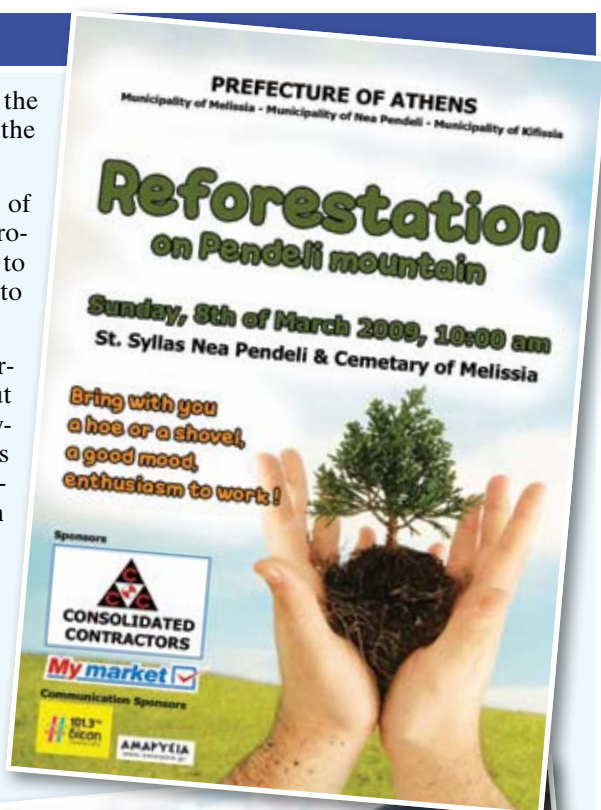
On August 16, 2007 around 500,000 trees turned to ashes during the fire that raged in Nea Pendeli. The catastrophe was disastrous with the fire reaching and burning some houses in that area.

CCC decided to donate 12,000 pine trees and two water tanks of 47m3 each as part of its CSR (Corporate Social Responsibilities) Programme. The water tanks will enable helicopters to have easy access to water instead of having to bring it from more distant Marathonas to fight a possible fire in the future.

On Sunday, March 8, a large number of volunteers from CCC participated in the reforestation activity and planted over 1,000 trees out of the 12,000 in the area which was specifically allocated by the Mayor of Nea Pendeli to CCC as a landmark for their contribution. It was great to see that the CCC employees were so enthusiastic to participate in a project, which enabled them to contribute to a future with a better environment and which brought their children closer to nature and the awareness that we all have to take care of it.

Our team - from the small child to the pensioner - did a magnificent job!!!

*Yvonne Wyss  
Personal Assistant, Athens*





## Corporate Social Responsibility in Madagascar

The job here in Madagascar is not an ordinary one, requiring extraordinary measures for its proper management. Regardless of this fact, and even though the management of the Ambatovy Slurry & Nickel Pipe Line Project (ASPI) is very busy and highly involved in the process of project execution, it always finds the time and resources to demonstrate on each occasion its commitment and faithful adherence to CCC's 17 Core Values & Guiding Principles along with a conscientious rejection of all practices that contradict them.

At ASPI, here in Madagascar, we are committed to CCC's Corporate Social Responsibility (CSR), as well, and we do strongly believe that faithful compliance with CSR principles ensures that business values and behaviour are aligned to balance between improving and developing CCC's business as well as improving the quality of life of the workforce, their families, local communities and societies at large.

We have already proven our commitment to the above mentioned principles on more than one occasion, despite the short period of our existence in Madagascar. We actively participated in the celebration of Madagascar Independence Day, which took place on June 26, 2008. Our project donated special sports uniforms for the national basket ball, football and table tennis teams of Toamasina. Three big cups and miscellaneous sportswear and equipment were also among our donations.

Dr. Rakotomanana Gervais, the mayor of Toamasina, who personally received the donations, had sent ASPI manager, Zahi Ghantous, a letter saying: "The celebration of our Independence Day, which took place on June 26, 2008, was a real success thanks to your help, that is, with equipment as well as with financial help". He continued to express "on behalf of the population of Toamasina and all the staff of the town council of Toamasina, sincere and deep gratitude".

To a letter dated July 11 from the Mayor of Toamasina addressed to Zahi Ghantous requesting that ASPI sponsor a campaign for the circumcision of 250 children, the project management promptly responded by providing half the required equipment, medicines and supplies for this campaign, worth a total of US\$4,500.

We also sponsored a football tournament that took place between October 13, 2008 and December 21, 2008, in Andasibe-Moramanga by providing all the equipment and supplies required for this event, as a response to a petition from the mayor of this region, who sincerely thanked us for our contribution to the success of this event.

We have sponsored the participation of one of the project staff in the GBS International roundtable on HIV/AIDS, Malaria & Tuberculosis, held in London on October 14, 2008.

We will continue to implement this CCC policy, regardless of all the difficulties and under whatever circumstances, because we do sincerely believe in and highly and heartily cherish the following from the CCC President's letter of February 2008: "Living in this troubled world

where human values and simple good principles are no longer the beliefs of many people around us, one must remember that neither short-term benefits nor following others can justify us from deviating from our main principles and beliefs".

*Jean El Moussa,  
Head of Project Accounts & Victor Karam, Chief Doctor  
Madagascar*

## Spring Holidays in Kazakhstan

Every year during the first month of spring CCC Astana plays its part in the celebration of the Kazakhstan National Holiday. During this time the employees of the company present their congratulations to the tenants of the local business centre: a nomad tent is erected where tables are placed and traditional drinks and dishes are offered to the locals and visitors to the capital.

*Aliya Omarova  
Astana, Kazakhstan*



## A Children's Creative Work Contest in Almaty

CCC sponsored and assisted in the organization of the 5th Republican Children's Creative Work Contest in Almaty, Kazakhstan. This involvement was deeply appreciated by the local public figures in the cultural world of Kazakhstan and its children. It is to be noted that the President of the Republic has a policy of affording great attention to the education of the coming generation.

Hundreds of thousands of children study at music schools, art studios and children's sports centres, thus producing the future ballet, opera, sports and television stars of Kazakhstan.

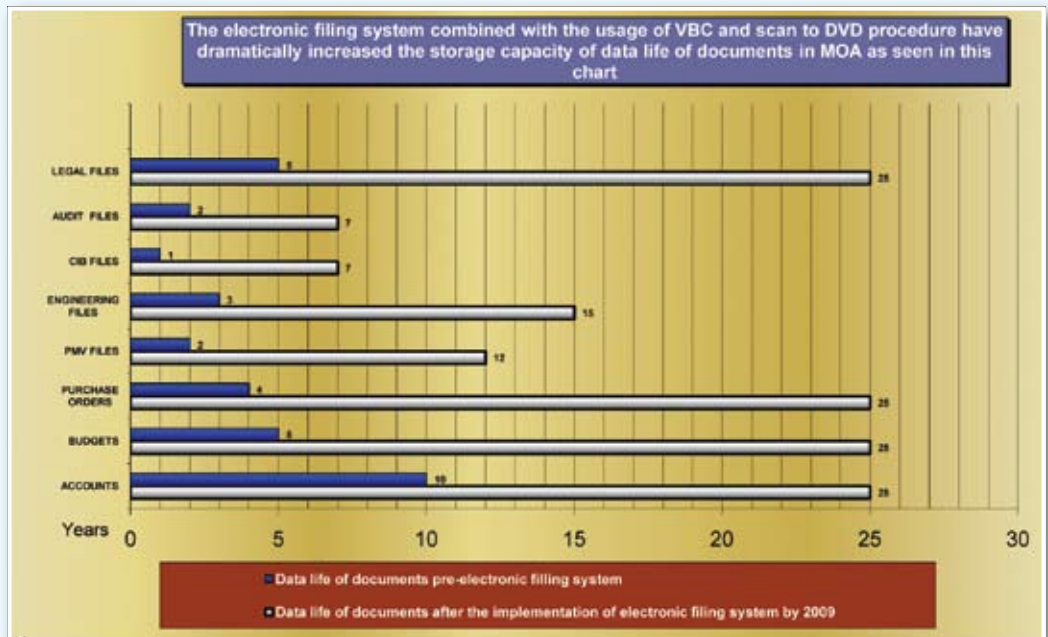
*Luda Waarie  
Administration & Accounts  
Almaty, Kazakhstan*





## Digital Imaging Solution

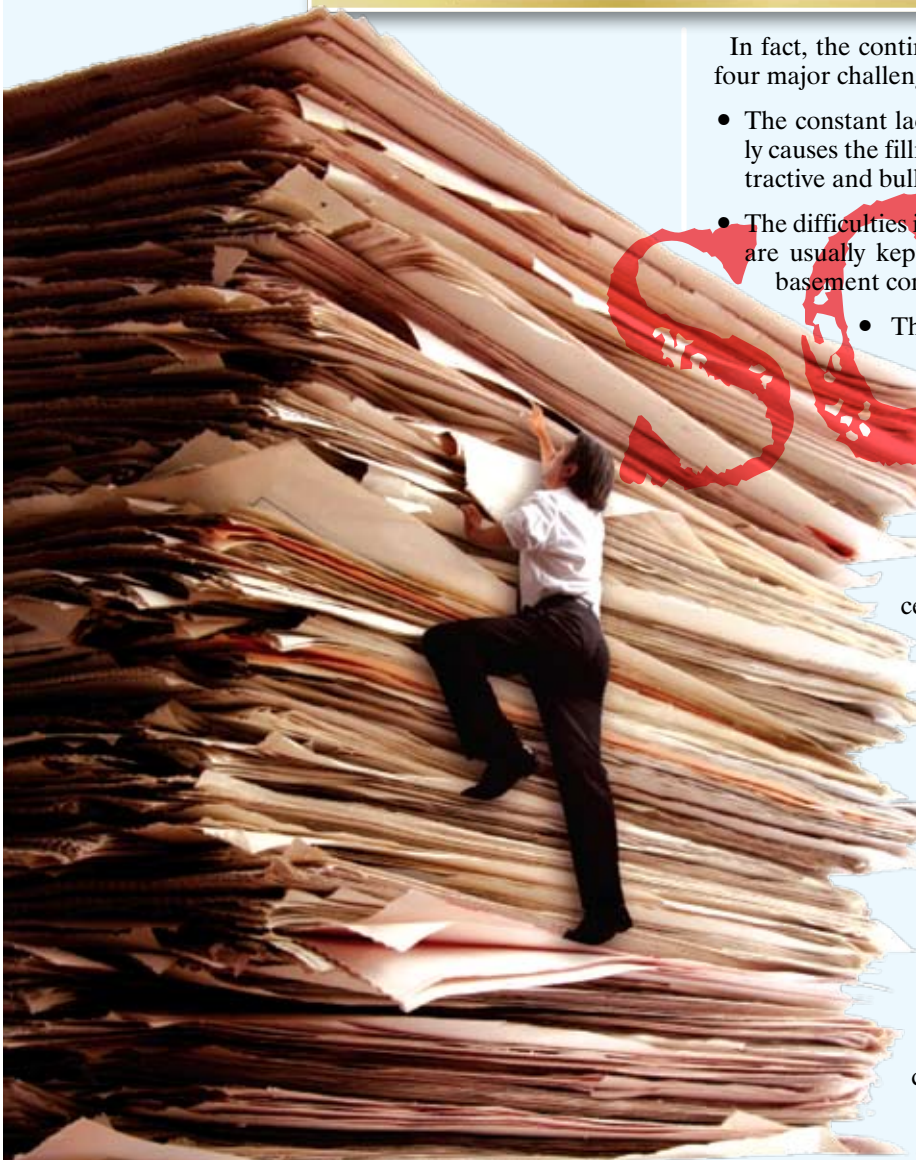
Good working practices and legal requirements dictate that businesses and organizations save a vast amount of data. This has led to the need for storage facilities full of bulky cabinets and endless metal racks in order to preserve records. As a result, large construction companies such as CCC that consume a huge quantity of paper on a daily basis have been facing problems when it comes to storage matters.



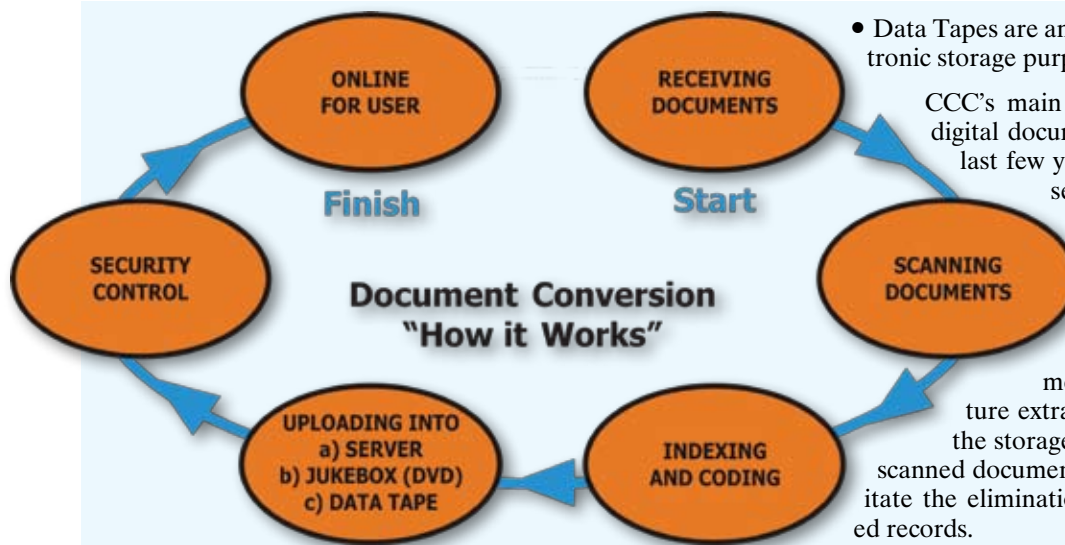
In fact, the continuous huge flow of paperwork creates four major challenges for companies such as CCC:

- The constant lack of storage facilities which eventually causes the filling up of the office premises with unattractive and bulky metal shelving systems.
- The difficulties in accessing the available records which are usually kept in labyrinthine and unapproachable basement containers.
- The continuous purchase of costly storage equipment such as: containers, cabinets, Dexion shelves and so on in order to meet the needs of the nonstop incoming documents.
- The loss of valuable data of a company due to the inevitable destruction of records in order to receive and store the current projects.
- Last but not least, another vital factor we should keep in mind is the possibility of a major catastrophe that may take place: should a fire or a flood occur, all important and significant records of a company's history would be lost forever.

In the age of computer technology, more and more companies are turning to digital document capture (scanning) to enable their businesses to integrate more efficiently with control and management of their archives.







- Data Tapes are another efficient solution for electronic storage purposes.

CCC's main office has been implementing digital document capture procedure for the last few years with outstanding results as seen in the chart. By putting into practice the scanning process in the storage facilities the following accomplishments have been achieved:

**Extra Space:** When implementing digital document capture extra space is freed up constantly in the storage area due to the disposal of the scanned documents which in the same time facilitate the elimination of duplicated and superseded records.

**Fast Access:** Immediate access and retrieval through a local jukebox of DVD's or database programme such as VBC is bringing to an end the old physical way of retrieving documents from the archives that used to waste endless time.

**Multiple Accesses:** Multiple users can access documents simultaneously through a database programme (VBC) and via the Internet, thus superseding the old fashioned way of only one person at a time when it comes to hard copies.

**Fast Transmission:** Electronic Documents can be transmitted to any part of the world fast and securely via e-mail or in the case of bulky documents by DVD, avoiding the waste of money on expensive couriers and the risk of delay or even in some cases the loss of original documents.

**Safety of Records:** Hard copies are always at risk of being destroyed or lost not only by a user but also by the manuscripts themselves which can deteriorate over the years and eventually become completely decayed. On the other hand, scanned documents under regular maintenance can last forever.

**Security of Records:** If records are stored electronically the organization has the capability of enhanced management and control of records by allocating different levels of security for access to information so that non-authorized personnel are shielded from sensitive and confidential data.

Since the above adjustments have improved our administration of the storage facilities in MOA, we all should take the scanning issue into very serious consideration to stop not only a waste of time and money but also to get involved in CCC's latest active mission to "Go Green"

Alex Khoury  
ISD

Document scanning is the process of using document scanning software and high-speed document scanners to convert an image of the paper to a digital picture. These electronic images can then be coded, indexed and stored in an electronic document database system which gives our users the ability to search through millions of scanned documents in a matter of moments.

The electronic storage document system could be as follows:

- A local server which can be accessed by authorized users through a database programme such as our impressive and thriving VBC programme and by all areas and sites via the Internet.
- A "jukebox" where scanned documents are organized into DVD's can also be an adequate system for archiving digital data where access is controlled as well.



600 box files (400 pages each)  
can be scanned into only  
2 DVD's as seen in picture



## Turning Deserts into Green Oases



SAUDI ARABIA: Camp of Khursaniyah Gas Plant Project (KGP)



As part of the projects' contribution to the environment and the local communities, wherever CCC goes, the offices, camps and worksites are turned into green spots. Examples are demonstrated by these photos received from the Wadi Dayqah Dams JV Project in Oman, Bu Hasa Camp Habshan in the United Arab Emirates and the Khursaniyah Gas Plant Camp in Saudi Arabia.

*Tony Awad  
Corporate Social Responsibility Officer*





...Turning Deserts into Green Oases



UAE: Bu Hasa Camp Habshan



OMAN: Wadi Dayqah Dams Project

