SAS SYSTEMS ENGINEERING
2011 YEAR IN REVIEW
Welcome to the SAS Systems Engineering 2011 Year in Review.

With this document, my colleagues and I are honored to provide you with comprehensive information regarding our company, including, in particular, noteworthy activities and achievements during 2011.

This past year has been an extraordinarily rewarding time for SAS, given the many improvements we have made. As we continued to innovate and explore new technological frontiers, and as we maintained our tradition of constantly broadening the skills of our corps of engineers, technicians, and administrators, the quality and range of our services have further been advanced. As important, we believe that our corporate culture, the way we do business, has accordingly reached a new and exemplary level of refinement.

Such strides give us the confidence to grow, and inspire us to continue building on our success.

As Chairman of SAS, I am proud to help steer a visionary team of executives, which in turn energizes our dedicated and diverse workforce, the hundreds of talented, enthusiastic men and women who have made SAS what it is today.

Thank you.

Alawi Baroum, Chairman, SAS Systems Engineering
As we reflect on our work during 2011, it is with a sense of profound gratification that we single out the word trust. This small, even modest, word has of course far-reaching implications, and today I am as ever delighted to state that it functions as the foundation stone of SAS Systems Engineering.

Trust, first and foremost, is what motivates our investors to work and grow with us. It is the trust placed in us by our clients and partners, as well as communities at large, that drives us to not only excel as a top regional company, but conduct business in accordance with our abiding principles of corporate governance and corporate social responsibility. And it is the trust that we place in our staff — in its skills, dedication, and creativity — that translates into superior products and services, and, ultimately, a thriving corporation.

Two thousand and eleven was a significant year for SAS, in several respects. The year was marked by a number of new contracts for mass-scale projects, as well as a great many new or ongoing projects throughout Saudi Arabia. Professional development was another hallmark of 2011, as SAS organized seminars and presentations for industry professionals, and our key engineers received advanced technical training. The year was also a turning point in that we began our long-anticipated effort to launch a branch in Qatar.

None of these strides could have been made without a model culture of corporate governance, which is why we continuously strive to enhance the way we do business. Indeed, our success is living proof that integrity, honor, and conduct of the highest ethical standards go hand in hand with a company’s reputation and financial health. All of our employees, irrespective of rank or position, receive rigorous training in ethical business conduct, and are always encouraged to value honesty and scrupulousness above expediency.

Finally, our culture of corporate governance also encompasses our ideals of corporate social responsibility. As SAS is a leader in the field of security and fire-protection systems, it is certainly a given that we adhere to the strictest international safety standards, in order to safeguard the well-being of our employees and clients. Yet, beyond our irreducible attention to safety, we are deeply committed to helping protect the natural and human environments in which we work, through our ongoing efforts to adopt green technologies, to recycle, preserve, and renew.

It is not surprising perhaps that our company’s achievements in 2011 have been complemented — and even fueled — by the improvements we’ve made in our corporate governance, as detailed in the present Year in Review. These improvements, coupled with our relentless quest for professional excellence, are a reflection of our belief that successful businesses help improve the human condition.

I thank all of our investors, clients, partners, suppliers, and employees for their continued trust in SAS.

Hovig Kurkjian, General Manager, SAS Systems Engineering
It is a distinct honor to be entrusted with the task of editing this publication, the inaugural Year in Review of SAS Systems Engineering.

In the several weeks that my colleagues and I prepared the reports and articles that appear in this document, I was filled with a deep sense of gratification, given the many significant strides made by the company during 2011.

I joined SAS in January 2011, as its Business Practices Officer. Ever since that time, I have been privileged to work with a wonderful personnel that persistently strives for corporate excellence. It is thanks to the skills and dedication of our staff, as well as the wise guidance of our executive corps, that today SAS maintains its international reputation as one of Saudi Arabia’s top companies in the fields of fire protection, communications, automation, and integrated management systems.

Throughout 2011, we focused equally on improving the way we work as a company and further raising the quality of our products and services. As importantly, SAS continued to operate in accordance with its deeply held convictions of corporate social responsibility, always prioritizing the well-being of the communities and natural environments in which we work.

As we welcome 2012, we are confident that our operational strategies, complemented by an outstanding workforce, an unrelenting quest for technological innovation, and our resolve to deliver products and services of the highest possible quality, will enable us to continue to grow, in Saudi Arabia and across the Middle East.

Thank you.

Sona Hamalian, Business Practices Officer, SAS Systems Engineering
A passion for the art of engineering

Salem Agencies and Services Company (SAS) was established in October 1986 as a high-tech company specializing in the engineering and supply of low-current systems.

Since then SAS has consistently expanded its operations to become a globally acclaimed technology corporation specializing in systems engineering. Our growth owes as much to our vision of corporate excellence as our abiding commitment to technological innovation.

While our associates include some of the brightest minds in the industry, we remain strongly invested in groundbreaking technological advances. Moreover, we are constantly innovating through our own research and development, all in an effort to design and maintain systems which ensure the optimal safety and efficiency of our clients’ operations.

Today we serve commercial establishments, industrial institutions, auditoriums and other public sites, and residential buildings across Saudi Arabia by providing them with state-of-the-art security, fire-protection, automated building-management, and communication systems.

Our reputation rests on our know-how and experience in:

- Consultation
- Design
- Supply
- Installation
- Supervision
- Testing and commissioning
- Service and maintenance
- Warranty backup

A fundamental advantage that sets SAS apart is its ability to create and maintain custom-designed, fully integrated environments where various systems are centrally controlled and work together seamlessly.

In this respect, SAS has pioneered a single-platform approach, through which all systems and subsystems are brought together via a single control unit, powered by our Centralized Management Software. Recognized as the future of intelligent building solutions, this software interfaces with all subsystems to achieve full integration and “intelligibility,” thus simplifying operation and maintenance while eliminating system vulnerability.

As we look ahead to the future, the ultimate success of our systems rests in a synthesis of corporate values and technological strengths which we place at the service of every single client, irrespective of the scope or scale of a given project.

Our experienced, highly qualified engineers are in charge of the design, installation, testing, and commissioning of systems as well as all aspects of after-sales service. This core portion of our work is complemented by our ongoing effort to expand our knowledge and skills base, and to ensure that our products and services alike are of the highest possible quality.

Thus SAS managers and engineers focus considerable attention on attending conferences and training seminars as well as visiting manufacturers and suppliers. Our strong links with our manufacturers and
Riyadh branch

Ever since 1989, when the SAS Riyadh branch was launched as a regional sales office, it has grown to assume a key role in the success of our company.

Covering a significant portion of central Saudi Arabia, our Riyadh branch has put its signature on numerous landmark sites, with a distinguished clientele that includes various Saudi-government agencies, the Air Force, multinational corporations, foreign embassies, palaces, airports, shopping centers, residential complexes, and power plants, among others.

The combined power of leading-edge products, technical expertise, and after-sales support continues to propel our Riyadh branch forward, with plans to hire more personnel while increasing its client base.

Today the Riyadh branch independently handles projects by providing engineering, technical submittals, site support, testing and commissioning, sales, and maintenance services (with certain account and commercial aspects administered by the SAS Head Office, in Jeddah).

Thanks to the hard work of the Riyadh-branch personnel and the resulting high quality of services, particularly in the past two years, the branch’s Fire Protection Department has earned the full confidence of the Saudi Electricity Company, Saudi Arabia’s biggest company, which has bestowed the department with a special mention of achievement. Indeed, the Fire Protection Department of the Riyadh branch is now recognized as a leader in the fire-protection field throughout the Central Region.

As shown in the following achievements list, services provided by the SAS Riyadh branch run the gamut of systems, with projects delivered to a wide spectrum of clients.

- King Abdulaziz City for Science and Technology, Johnson Controls building-management system.
- Saudi Arabian National Guard Office Building, Siemens standalone HVAC control system.
- Schlumberger Data Center offices and laboratory facilities (Dhahran), Siemens standalone HVAC control system.
- Riyadh Aircraft Hangar Facilities, Contract for maintenance of building-management system.
- Dabab Towers, Contract for maintenance of security systems.
- Ministry of Interior Police Investigation Office, Contract for maintenance of CCTV system.
- Ministry of Defense Military Facilities Department, CCTV system.
- Al Qasr Mall, Contract for MATV system.
- SEC Wadi Dawaser Power Plant, Fire-protection system.
- SEC Power Plants No. 5 and No. 9, Full upgrade of fire-protection system.
- 380 KV Substations at Princess Noura University and King Abdullah Financial Center and Hiteen area, Fire-protection system.
- 132 KV Substations at Princes Noura University, King Abdullah Financial District, and ITCC, Fire-protection system.
- Central Region Telecommunication Control Center, Fire-protection system.
- Marketing of Siemens KNX lighting-control technology following personnel training in Siemens KNX/GAMMA system.
Al Khobar and Jubail branches

The SAS Al Khobar branch was established in 1998, essentially as a liaison sales office representing the company in eastern Saudi Arabia. In the ensuing years the branch was expanded considerably, in particular following the Saudi Aramco Shell Refinery (SASREF) industrial-security project, which was awarded to the Al Khobar branch in 2001.

As the reputation of SAS quickly grew in the eastern provinces, the Al Khobar branch was awarded ever larger projects — including various fire-alarm (FA), firefighting (FF), integrated security, and communications projects as well as maintenance contracts for the Saudi Electricity Company (SEC), SASREF, Saudi Aramco, Sipchem, and Advance Petrochemical Company, among others.

By 2009, when SAS continued to secure high-profile contracts based in eastern Saudi Arabia, the company opened yet another branch, in Jubail, where top clients included TASNEE, Advance Petrochemical Company, and Sipchem.

Ever since SAS established its presence in eastern Saudi Arabia, our Al Khobar and Jubail branches have had a long string of successes, with clients including the Saudi Electricity Company, Saudi Aramco, Sipchem, Advance Petrochemical Company, and SATORP, among others.

Two thousand eleven was an outstanding year for the Al Khobar and Jubail branches. They completed several projects, secured a number of prestigious contracts, and continued to increase the professional capabilities of their engineering staff through new trainings.

The following are some highlights of accomplishments in 2011:

- Completion of integrated security project for SASREF, Stage 3.
- Completion of project for Sipchem, with components including integrated security system, ECC AV, administration-area road blockers, UPS, and barriers.
- SEC contract for installation of FA and FF systems at substations in the Eastern Region.
- Contract for TASNEE integrated security project.
- Contract for Oaft FA and FF project.
- Saudi Aramco contract for implementing Manifa FA project.
- Participation of engineers in various advanced trainings offered by Moxa Industrial Data Network, GE, Remdaq, and Lenel USA, leading to certification.

Currently the SAS Al Khobar and Jubail branches are carrying out a number of extensive projects. Among these is the installation of integrated security systems at 13 hospitals throughout the Eastern Region; the execution of two FA and FF projects for SATORP; a planned Saudi Aramco refinery in Jubail 2 Industrial City; a contract for FA and FF systems from Al Osais, Package 7, for the same project; and the installation of KABA time-attendance systems for SWCC sites throughout Saudi Arabia.

Madinah branch

The SAS Madinah branch has had an instrumental role in the consistent growth of the company, helping it earn its reputation as one of Saudi Arabia’s premier corporations specializing in low-current-systems engineering.

Today the distinct imprint of our Madinah branch is found across the Madinah area, in a diversity of public and private landmarks ranging from airports, hotels, and commercial buildings to palaces, banks, residential complexes, shopping centers, hospitals, and universities.

The fact that our Madinah branch, like SAS as a whole, is a top provider of integrated security, fire-protection, building-management, and communications systems is due as much to our world-class expertise, products, and service delivery as our extensive after-sales maintenance and support.

Over our 20-year history, as the trust of our distinguished clientele has enabled us to establish the highest possible benchmarks for technical know-how, product quality, and customer support, we have garnered kudos from the government of Saudi Arabia and private-sector clients alike. Our Madinah branch, as a key part of the SAS family, is approved by the Quality Management Institute as an ISO 9001-2000-compliant company. This recognition pertains to our demonstrated quality and expertise in the installation, trading, and maintenance of integrated security, communications, fire-protection, automation, and industrial-automation systems.

In 2011, our passion for protecting life and property, and our abiding commitment to helping perfect various structures through the marvels of cutting-edge engineering, have found expression in a string of prestigious projects. As we acknowledge our wonderful suppliers and partners for giving us the tools to do what we do best, our heartfelt thanks also go to our Madinah personnel — our outstanding teams of engineers, sales specialists, and service technicians — whose continued professional growth is attested to by their thirst for knowledge and participation in seminars, trainings, and conferences.

The following is a partial list of major projects implemented by the SAS Madinah branch:

- Taibah Commercial and Residential Center. Integrated fire-protection and centralized building-management systems covering entire complex.
- Madinah Haram Car Park. Extensive fire-protection system installed around Prophet’s Mosque.
- Prince Sultan’s Palace. Fire-protection system.
- Madinah Hilton Hotel. All fire-suppression systems.
- The Oberoi Hotel. Complete fire-protection system as well as BTU and electricity billing system.
- Al Baya Substation. Complete fire-protection system.
- Dar Al Hijra Inter-Continental Hotel. Fully integrated building-management system.
- Dar Al Tafwa Inter-Continental Hotel. Fully integrated building-management system.
- Dar Al Iman Inter-Continental Hotel. Fully integrated building-management system.
- Anwar Al Madinah Movenpick Hotel, including King Abdullah Royal Floor. Fully integrated building-management and fire-protection systems, as well as BTU and electricity billing system.
- Taibah Commercial and Residential Towers. Building-management-system design and onsite installation supervision; DDC programming, testing, and commissioning for the control of HVAC systems (chillers, pumps, AHUs, FCUs), including graphical workstations.
- Al Haram Shopping Center. Complete fire-protection system.
- Maintenance projects for all Saudi Electricity Company substations in Madinah and Yanbu. Maintenance of all fire-protection systems; linking of all systems with the main fire-alarm systems.
Two thousand eleven was a standout year for SAS Systems Engineering, given our exceptional performance as one of the Saudi Kingdom’s foremost companies specializing in the fields of fire protection, security and communications, and building-management systems and automation.

We believe the high level of our performance in 2011 owed as much to corporate vision and the enthusiasm of our workforce as quantifiable factors such as industry-leading products and services, projects of great scale and complexity, as well as our steadily growing market share and investment returns.

We are also convinced that what made 2011 a watershed year for SAS was due equally to a consistent effort to enhance our organizational modus operandi, in our ongoing quest to work, think, and strategize as a model corporate citizen. Our abiding principle behind this particular effort is that, simply stated, good corporate practices are the foundation stones of a successful company — and that they are the engine that fuels continued growth.

It may come as no surprise, therefore, that our milestones in 2011 have given us the confidence to make one of our most exciting moves yet: to begin the process of launching a corporate branch in the Emirate of Qatar.

**Trade exhibitions**

In 2011, SAS secured both local and international exposure by exhibiting at prestigious trade shows including the IFSEC Arabia Exhibition, the Saudi Electricity Company Exhibition, and the Saudi Safety and Security Exhibition (SSS). Our presence at these events led to great sales leads and contracts. The SSS Exhibition, for instance, at which our Al Khobar branch was featured, led to a major contract, for the Arcel Mittal Firefighting and Fire-detection project.

Our presence at these preeminent industry exhibitions gave us the opportunity to showcase the wide range of our products and services, expand our client base, and keep abreast of the latest in cutting-edge technologies. As importantly, such exhibitions have helped us forge our future direction in terms of offering our own technological innovations and service enhancements, in keeping with the fast-changing demands of the global marketplace.

A core factor in our success as trade-show exhibitors in 2011 has been the logistical support provided by SASNET, our newest department (please see below).

**The launch of SASNET: the shape of things to come**

Our commitment to corporate excellence took a fresh turn in 2011 as we created SASNET, a department devoted entirely to doing the things we do even better.

SASNET wears several hats. It is, first and foremost, an in-house think tank, an incubator of new ideas; it fosters professional advancement by providing training and continuing-education
opportunities for staff members; it plans and designs marketing and public-relations campaigns, as
well as participation in industry exhibitions, for sustained and optimal corporate exposure; it conducts
up-to-the-minute market evaluations in support of the company’s business strategies; and it
administers the newly established SAS Award, which will be given to staff members who come up
with the best ideas for various spheres of our operations.

The overarching goal of SASNET is not only to spur new thinking, but to integrate fresh ideas into an
evolving vision of corporate growth and success.

Trainings and seminars

Throughout 2011, SAS Systems Engineering organized a string of presentations, trainings, and
seminars, aiming to increase the knowledge and skill levels of staff members and colleagues from
other companies alike.

Among these educational events were a series of seminars dedicated to the 3M Novec 1230 Fire Protection
Fluid. The seminars were organized jointly by 3M, Kidde Fire Systems USA, and SAS, and attended by
large numbers of engineers, fire-safety professionals, and end users. One strong indicator of the
success of the seminars was that, immediately following the conclusion of each event, participating
end users approved the conversion of their existing FM-200 systems to the Novec 1230 protocol.

In his welcome remarks at the opening seminar, SAS General Manager Hovig Kurkjian spoke of the
Novec 1230’s merits: “The 3M Novec 1230 Fire Protection Fluid is a pioneering gaseous fire-suppression
agent,” he said. “It has rightfully earned high praise, not only for its absolute effectiveness, but
extraordinary environmental profile. Indeed, the Novec 1230 is such a well-designed product, with years
of research and development to perfect it, that it is simply unmatched by any other halocarbon agent.”

Mr. Kurkjian also reflected on the synergistic nature of the seminars, stating: “Perhaps what I find
most gratifying in these events is the fact that our three companies — 3M, Kidde Fire Systems, and
SAS — have joined forces, not just fostering continued education and training, but advancing mutual
support and partnership, in the best possible sense of this word.”

Corporate governance:

“Self-improvement is a state of mind.”

This is how Mr. Alawi Baroum, Chairman of SAS Systems Engineering, describes the company’s
commitment to always working as a model corporate citizen.

In 2011 that commitment manifested itself in a diversity of internal-enhancement processes, which
helped to further strengthen the professional, ethical, and operational foundations of the company.
Moreover, these endeavors resulted in a new benchmark for transparency and openness across the board.

A key effort came early in the year, when SAS introduced extensive improvements to its Code of
Business Conduct. This most central of documents articulates the SAS policies with regard to ethical
and professional behavior, providing clear and detailed guidance on how to work and think as
exemplary employees, irrespective of rank or position. In addition, the SAS Code of Business Conduct
states policies with regard to ethical dealings with suppliers, partners, clients, and government
agencies, as well as principles in connection with corporate social responsibility, including
environmental stewardship and community give-back.

Another area that saw enhancements in 2011 was the company’s Competency Assessment
process. A comprehensive mechanism that includes an employee self-assessment component, the
SAS Competency Assessment process is designed to nurture the highest level of professionalism
among personnel and to address areas that can benefit from remedial action.

In order to promote increased openness and communication, in 2011 SAS placed renewed emphasis
on the importance of Grievance and Suggestion Boxes, which are provided for the use of employees
in all company offices. Throughout the year, staff members responded with overwhelming enthusiasm
as they made use of these boxes, offering scores of helpful suggestions — and, occasionally, infusing
much-appreciated humor into their notes.

Also within the context of transparency and openness, in 2011 SAS began the tradition of monthly
Letters from the General Manager. Circulated among all staff on the first of each month, these letters
are much more than mere internal memos, as they touch on important themes and issues, announce
significant achievements and upcoming projects, or discuss particular challenges whose resolution
may require a concerted effort by employees.

Finally, the year 2011 saw unprecedented improvements in the company’s IT security system.
These critically needed enhancements, which were preceded by extensive research and planning,
resulted in the implementation of new, state-of-the-art protocols, safeguarding the security of all
electronic communications.
Two thousand eleven was the SAS Fire Protection Department’s most successful year to date. The department’s achievements during this time comprised the implementation of several projects of mass scale; the signing of an unprecedented engineering, procurement, and construction (EPC) contract; expansion into various market sectors; and the organization of a series of far-reaching seminars.

It has been a great honor for the Fire Protection Department to complete two vast projects in 2011 for the Saudi Electricity Company, one of our most valued and important clients. These projects were the Power Plant No. 10 in Riyadh and Stage 3 of the Shoaiba Power Plant in Jeddah.

Another extraordinary accomplishment in 2011 was our newly forged partnership with the globally renowned contractor Doosan Heavy Industries and Construction, which entrusted us with the prestigious Rabigh Power Plant No. 2 project. This initiative is not only the largest in the history of SAS Systems Engineering, but our first EPC contract with a Korean company.

For ten months prior to the awarding of the contract, our engineers worked closely with Doosan counterparts to develop the project’s master plan. In order to achieve this, the Fire Protection Department created an engineering team dedicated specifically to the Rabigh project. The resulting plan, which reflected our 20 years of experience working with the Saudi Electricity Company and compliance with the most up-to-date industry rules, regulations, and technical specifications, garnered the highest praise from Doosan, which went on to award the contract to SAS in May 2011.

In addition to contracts for Saudi Electricity Company projects as well as various power-plant extensions and substations, the Fire Protection Department penetrated several market sectors in 2011. Our work in these spheres included:

1. A multispecialty project at the King Khalid University in Abha, commissioned by the Saudi Ministry of Higher Education;
2. A halon-replacement project for the Islamic Development Bank headquarters in Jeddah;
3. A fire-protection-system project for the Industrial Waste Treatment Plant in Marafiq Yanbu; and
4. A multispecialty project for a new, 500-bed hospital in Jeddah, commissioned by the Saudi Ministry of Health.

In its ongoing quest for innovation and adaptation of cutting-edge technologies, the SAS Fire Protection Department conducted a series of highly anticipated seminars in 2011, on the subject of the 3M Novec 1230 Fire Protection Fluid. These events, designed equally for fire-protection engineers and end users, were held in three major Saudi cities, namely Jeddah, Riyadh, and Khobar. The effectiveness of these seminars was attested to by not only impressive attendance numbers and the enthusiasm of participants, but the fact that end users completing the seminars subsequently approved the conversion of their existing FM-200 systems to the Novec 1230 protocol.

Throughout 2011, as the SAS Fire Protection Department expanded into various market sectors, it tackled the challenge of developing designs that would both satisfy the project requirements of sector-specific consultants and comply with the latest technical specifications introduced by the Saudi Electricity Company. This challenge was met with seamless success, due as much to the skills, knowledge, and experience of our engineers as the dedicated client support which they provided at every step of the way.
During 2011, SAS Systems Engineering maintained its position as a top provider of security and communications systems, completing several large-scale projects in the Saudi Kingdom’s public, commercial, and industrial sectors.

Offering leading-edge products from Geutebruck, GE, Lenel, and Interflex, the SAS Security and Communications Department custom-designed and installed fully integrated security and safety systems, as well as state-of-the-art audiovisual and public-address systems, at many of Saudi Arabia’s most prominent sites.

In the sphere of security, the systems we have provided cover surveillance, access control, and intrusion detection, using Closed-Circuit Televisions (CCTV) and motion detection based variously on microwave, vibration, and infrared-sensor technologies. The public-address and sound systems we have provided encompass all aspects of sound management, intercom, simultaneous interpretation, and conferencing. We have also installed room-management, Uninterrupted Power Supply (UPS), and clock systems at scores of sites.

Throughout 2011, our dedicated teams of engineers implemented complete-solution packages for our clients — not only designing, testing, and installing complex security and communications systems of diverse technical requirements, but conducting post-installation equipment maintenance at every single site under contract.

The facilities on which we worked during the year included airports, power plants, petrochemical plants, banks, auditoriums, conference centers, mosques, palaces, parking structures, and private residences.

The following is a sampling of major projects we worked on in 2011:

> **Bank Aljazira:** At the time SAS was contracted by Bank Aljazira, the physical security of the institution’s branches hinged on non-integrated systems which were based on various electronic-security technologies. Given the cost-prohibitive nature of these mostly outdated systems, Bank Aljazira commissioned SAS to completely overhaul its security apparatus. Subsequently our department provided the bank (comprising headquarters and all branches) with an innovative, fully integrated access-control solution. Powering our enterprise-wide security systems for Bank Aljazira is the UTC Secure Perfect software-and-hardware combination, which is ideal for large installations.

> **King Abdulaziz International Airport Private Aviation Hub, Jeddah:** The King Abdulaziz International Airport Private Aviation Hub, which is designed to provide optimal air-travel convenience to business executives and other VIPs, required an ultra modern security system. As contracted by the General Authority of Civil Aviation of Saudi Arabia, SAS designed and installed state-of-the-art, fully integrated, and user-friendly security systems in all three buildings of the airport’s Private Aviation Hub. Our department implemented this challenging project by installing GE’s VisioWave Intelligent Video Platform (IVP), which manages over 250 cameras across the hub. Featuring the latest in encoding compression (H.264), VisioWave has superb surveillance capabilities, facilitates system growth, and is uniquely flexible for integrating access-control and fire-detection systems. Thus, in order to complete the apparatus, our department also installed the UTC Secure Perfect system, which communicates seamlessly with VisioWave. The resulting security system, monitored through
plant was a great success, in no small measure due to our utilization of the SkyPoint software, which enabled us to integrate three core security systems: fence protection, microwave detection, and video surveillance.

> Qurayyah Combined-cycle Power Plant: Following the completion of the Qurayyah Power Plant open-cycle project, the SEC has been implementing a combined-cycle conversion of the plant. The conversion, based on five blocks—each comprising three GTGs, three HRSGs, and one STG—will result in a net combined-cycle gas-turbine power rating of approximately 3,190 MW, with an expected rating for each of the STGs of close to 260 MW. The SAS Security and Communications Department, which worked on the open-cycle project, was once again awarded a contract by the SEC, this time for handling the security scope of the combined-cycle conversion. Our department went on to successfully execute the project, in collaboration with our longtime German partner, Geutebruck. The systems we installed, with components manufactured by Geutebruck, provide around-the-clock surveillance, camera recording, and long-term storage of all recorded video in different, protected ring buffers featuring an export function. Moreover, the systems we installed allow security personnel to manually record specific suspicious activities, and enable the integration of video motion detectors with alarm-reporting.

> Al Massa (Mekkah Haram) Sound and CCTV systems: Ever since 1992, SAS has served as the Al Haram Mosque's sound- and CCTV-systems provider. Recently the SAS Security and Communications Department was awarded an extensive sound-system project for the Al Massa project. Within the framework of the initiative, SAS will install a combination of 3,000 analog and line-array speakers at the holy site. SAS was also awarded a comprehensive CCTV-system contract, which comprises the installation of 800 analog security cameras at the mosque. We have designed the system in such a way that it gives the client the flexibility to monitor the site through either an analog-matrix solution or a converted, network-based IP protocol. The SAS Security and Communications Department, as the entire SAS family, is profoundly honored for being of service to the holy sites of the Saudi Kingdom.
In 2011, the SAS Building-management Systems Department brought its expertise to major public and industrial projects across Saudi Arabia.

Our state-of-the-art automation and building-management systems allow our clients extremely easy and precise control and monitoring of all electrical, mechanical, and HVAC networks. We also enable full integration with third-party systems such as automation, security, access control, fire alarms, lighting controls via Bacnet/IP, Lon/IP, and KNX as well as Mod bus communications. The automation and building-management systems we provide are manufactured variously by the globally renowned companies Siemens and Johnson Controls.

While we are proud to serve all of our clients, we are particularly honored for the opportunity to supply automation and building-management systems to two landmark projects, those of the Holy Mosques of Mekkah and Madinah — as commissioned by the King of Saudi Arabia, Custodian of the two holy sites.

The following are among the major projects our department was awarded in 2011:

> Relocation of equipment building, Al Haram Mosque, Mekkah. SAS was contracted for the design and installation of systems that would ensure the treatment, correct temperature maintenance, and supply of potable Zamzam water inside the Al Haram Mosque (holy water from the Zamzam well is provided to billions of visitors annually, especially during the Hajj and Umrah pilgrimages). SAS designed and is in the process of installing Siemens building-management systems for the operation and monitoring of mechanical equipment (variable-speed drives, pumps, heat exchangers) as well as all apparatuses for the chilling and treatment of Zamzam water (sand filters, micro filters, ultraviolet sterilizers, storage tanks, and other equipment).

> Building-management system for Al Riyassa Building No. 6, Al Haram Mosque, Madinah. Our department is supplying the holy site’s Building No. 6 with a Johnson Controls building-management system to control and monitor the structure’s electrical, mechanical, and HVAC services, with full integration of the York chillers.

> Building-management system for correctional facilities. SAS was contracted by the Ministry of Interior of Saudi Arabia to help automate more than 100 correctional facilities planned to be constructed throughout the Kingdom. Our department has designed and is currently supplying, testing, and commissioning Johnson Controls DDC systems for the control and monitoring of all HVAC equipment at the sites.

> Building-management system for Qurayyah Power Plant. One of the largest in Saudi Arabia, the Qurayyah Power Plant consists of open-cycle and combined-cycle plants. SAS designed and supplied a Siemens building-management system for the control and monitoring of the electrical, mechanical, and HVAC services of the entire site. Data communication inside the buildings is based on BACNET/LON. Data communication between the buildings and the central workstation is based on BACNET/IP, through fiber optics.

> Building-management system for Tabuk Regional Airport. SAS was contracted to implement an extensive automation project at Tabuk Regional Airport. Our department designed and supplied a Johnson Controls building-management system for the control and monitoring of the electrical, mechanical, plumbing, and HVAC services of the entire site. Data communication inside the airport buildings is based on BACNET/LON. Data communication between the buildings and the central workstation is based on BACNET/IP, through fiber optics.
### MAJOR COMPLETED PROJECTS, 2011

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<td>Al Toukh Co.</td>
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<td>Qurayyah Power Plant (Simple-cycle project)</td>
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<tr>
<td>Power Plant No. 5</td>
<td>Full upgrade of fire-protection system, including transfer of foam-mixing tank for 12 units, along with associated piping, to new covered area of outdoor turbine hall</td>
<td>SEC</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>Power Plant No. 10</td>
<td>Fire-protection system</td>
<td>SEC</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>Shoaiba Power Plant Stages 1, 2, and 3</td>
<td>Fire-protection system</td>
<td>Airstor</td>
<td>Jeddah</td>
<td>SEC</td>
</tr>
<tr>
<td>Islamic Development Bank headquarters</td>
<td>Hielan replacement</td>
<td>Islamic Development Bank</td>
<td>Jeddah</td>
<td>Islamic Development Bank</td>
</tr>
<tr>
<td>Industrial Waste Treatment Plant</td>
<td>Fire-protection system</td>
<td>SETE Energy Saudia for Industrial Projects</td>
<td>Yanbu</td>
<td>Marafiq</td>
</tr>
<tr>
<td>New Hospital</td>
<td>Multispecialty project</td>
<td></td>
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</tr>
<tr>
<td>Tabuk Regional Airport</td>
<td>Johnson Controls building-management system for control and monitoring of electrical, mechanical, plumbing, and HVAC services equipment of entire site</td>
<td>Saudi Binladin Group (SEG-FRAD)</td>
<td>Jeddah</td>
<td>Ministry of Health</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Tabuk</td>
<td>Ministry of Defense</td>
</tr>
<tr>
<td>Saudi Arabian National Guard Office Building</td>
<td>Siemens building-management system including standalone DDC's for control and monitoring of various building services equipment. Integrated with fire-alarm system</td>
<td>SBG</td>
<td>Riyadh</td>
<td>Saudi Arabian National Guard</td>
</tr>
<tr>
<td>Saudi Aramco Shell Refinery, Stage 3</td>
<td>Integrated security system</td>
<td>Saudi Aramco Shell Refinery</td>
<td>Jubail</td>
<td>Saudi Aramco Shell Refinery</td>
</tr>
<tr>
<td>Project</td>
<td>Description</td>
<td>Contractor</td>
<td>Location</td>
<td>Owner</td>
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<tr>
<td>Schlumberger Data Center (offices and laboratory facilities)</td>
<td>Siemens building-management system including standalone DDCs for control and monitoring of various building services equipment. Integrated with fire-alarm system.</td>
<td>MCC</td>
<td>Dhahran</td>
<td>Schlumberger</td>
</tr>
<tr>
<td>Sipchem</td>
<td>Integrated security system, ECC AV, road blockers, UPS, and road barriers.</td>
<td>Sipchem</td>
<td>Jubail</td>
<td>Sipchem</td>
</tr>
<tr>
<td>Taibah Commercial and Residential Center</td>
<td>Integrated fire-protection and building-management systems.</td>
<td>SBG-PBAD</td>
<td>Madinah</td>
<td>Taibah Commercial and Residential Center</td>
</tr>
<tr>
<td>Madinah Haram Car Park</td>
<td>Extensive fire-protection system installed around Prophet’s Mosque.</td>
<td>SBG-PBAD</td>
<td>Madinah</td>
<td>General Presidency of the Affairs of the Two Holy Mosques</td>
</tr>
<tr>
<td>Prince Sultan’s Palace</td>
<td>Fire-protection system.</td>
<td>Arabian Benco-SBG</td>
<td>Madinah</td>
<td>Prince Sultan</td>
</tr>
<tr>
<td>Madinah Hilton Hotel</td>
<td>All fire-suppression systems.</td>
<td>SBG-PBAD</td>
<td>Madinah</td>
<td>Hilton Worldwide</td>
</tr>
<tr>
<td>The Obens Hotel</td>
<td>Fire-protection system as well as BTU and electricity billing system.</td>
<td>SBG-PBAD</td>
<td>Madinah</td>
<td>Obens Group</td>
</tr>
<tr>
<td>Al Bayda Substation</td>
<td>Fire-protection system.</td>
<td>Siemens</td>
<td>Madinah</td>
<td>SEC</td>
</tr>
<tr>
<td>Dar Al Hijra Inter-Continental Hotel</td>
<td>Fully integrated building-management system.</td>
<td>Madinah</td>
<td>Dar Al Hijra Inter-Continental Hotel</td>
<td></td>
</tr>
<tr>
<td>Anwar Al Madinah Movenpick Hotel, including King Abdullah Royal Floor</td>
<td>Fully integrated building-management and fire-protection systems, as well as BTU and electricity billing system.</td>
<td>SBG-PBAD</td>
<td>Madinah</td>
<td>Anwar Al Madinah Movenpick Hotel</td>
</tr>
<tr>
<td>Dar Al Taqwa Inter-Continental Hotel</td>
<td>Fully integrated building-management system.</td>
<td>SBG-PP</td>
<td>Madinah</td>
<td>Dar Al Taqwa Inter-Continental Hotel</td>
</tr>
<tr>
<td>Dar Al Iman Inter-Continental Hotel</td>
<td>Fully integrated building-management system.</td>
<td>SBG-PP</td>
<td>Madinah</td>
<td>Dar Al Iman Inter-Continental Hotel</td>
</tr>
<tr>
<td>King Abdulaziz City for Science and Technology</td>
<td>Fully integrated Johnson Controls building-management system including control and monitoring panels for HVAC, AHUs, CHPs, pumps, VAVs, FCUs, fresh-air fans, exhaust fans, staircase pressurization fans, and humidifiers, as well as monitoring of lighting system, fire-alarm system, smoke dampers, electrical panels, and Genset. Building-management-system design and onsite installation supervision; DDC programming, testing, and commissioning for the control of HVAC systems (CHPs, pumps, AHUs, FCUs, VAVs), including graphical workstations.</td>
<td>Al Saha Safir</td>
<td>Madinah</td>
<td>Al Saha Safir Hotels Group</td>
</tr>
<tr>
<td>Taibah Commercial and Residential Center</td>
<td>Building-management-system design and onsite installation supervision; DDC programming, testing, and commissioning for the control of HVAC systems (CHPs, pumps, AHUs, FCUs, VAVs), including graphical workstations.</td>
<td>S. Constr’s</td>
<td>Madinah</td>
<td>S. Constr’s</td>
</tr>
<tr>
<td>Al Haram Shopping Center</td>
<td>Fire-protection system.</td>
<td>E. A. Juffail</td>
<td>Madinah</td>
<td>E. A. Juffail</td>
</tr>
<tr>
<td>Dar Al Hijra Inter-Continental Hotel</td>
<td>All fire-suppression systems (FM-200) and fire-alarm systems with Intelligent Networks.</td>
<td>PMDC – Property and Project Management Company</td>
<td>Madinah</td>
<td>General Presidency of the Affairs of the Two Holy Mosques</td>
</tr>
<tr>
<td>Taibah Hotel</td>
<td>Upgrade of all fire-alarm systems including interfaces with other systems.</td>
<td>Taiba Contracting &amp; Maintenance Ltd. (TACOMA)</td>
<td>Madinah</td>
<td>Taiba Contracting &amp; Maintenance Ltd. (TACOMA)</td>
</tr>
<tr>
<td>Al Saha Safir Hotel</td>
<td>Upgrade of all fire-alarm systems including interfaces with other systems.</td>
<td>Al Saha Safir Hotel</td>
<td>Madinah</td>
<td>Al Saha Safir Hotel</td>
</tr>
<tr>
<td>Al Saha Safir Hotel</td>
<td>Building-management system including control of mechanical, electrical, plumbing, and HVAC systems.</td>
<td>IBS Company for Contracting</td>
<td>Madinah</td>
<td>IBS Company for Contracting</td>
</tr>
</tbody>
</table>
As SAS continues to grow, the role of technology and automation in supporting the company’s expansion becomes even more important. Acknowledging this fact, the SAS leadership is committed to using its IT (information technologies) infrastructure as a strategic enabler for the company in its business endeavors.

Major achievements in 2011

Throughout 2011, the SAS IT team was proud to showcase its abilities in addressing a number of key challenges, both internal and external. The solutions we provided have led to several far-reaching advances, in terms of security and automation alike.

> Mimic panel programming In collaboration with the Fire Protection Department, the IT team applied its software-development expertise for various client projects. As a result, we have developed custom-tailored mimic panels for numerous facilities. The panels we have installed are as great-looking as they are easy to use and extremely functional.

> Information-security improvements In 2011, numerous information-security improvements were made, reflecting the fact that information security is and has always been a top priority for SAS. Client information, intellectual property, and any other sensitive information is safeguarded by the company’s IT team, and processes are instituted to consistently maintain the highest possible level of protection and improve efficiencies where possible.

> Internal-infrastructure projects The IT team worked hard to make various internal improvements which will allow the company to be more efficient and productive. Whether it is our new Enterprise Resource Planner and warehouse-automation project, our new intranet, or our secure and scalable email system, all these changes have one goal, to improve the delivery of our products and services to our clients.

Looking ahead

While we’re proud of the strides we’ve made in 2011, we’re always looking to improve by building on what we have achieved so far. Our goals for 2012 include:

> Improved client satisfaction. We are committed to ensuring that our users are thoroughly satisfied by our IT services.

> Strategic, not tactical. In addition to tactical solutions aimed at solving specific problems, our goal is to be more strategic and ensure that the solutions we provide maximally contribute to our business goals.

> Continuous measurement and improvement. In addition to developing and launching new services, one of our key objectives will be to gain insight into how our users utilize the services we provide. We will use this information to improve our services so that our clients are ensured maximum value.

> Security is key. In keeping with our company’s philosophy, our overarching goal is to improve our IT security practices further and ensure that information security is an integral part of every IT decision.
Increased focus on green products and water-mist systems

With the goals of ensuring optimal operational efficiency and natural-resource management, as well as offering greener products, the SAS Fire Protection Department is applying state-of-the-art systems that maximize fire protection while minimizing environmental impact.

A key technology on which our department will focus in 2012 and beyond are high- and low-pressure water-mist systems. Although this technology has been available for some time, the local market as yet remains largely unfamiliar with it, prompting us to help educate end users about its far-reaching benefits.

The application of water-mist systems will result in major savings of precious and increasingly scarce potable-water resources. In addition, the application of water-mist systems will enable us to bring fire protection to certain areas which hitherto were difficult to access through conventional fire protection systems such as road tunnels.

The following are types of sites where SAS can install water-mist systems for an unprecedented level of safety and peace of mind:

1. Aircraft hangars;
2. Road tunnels;
3. Hotel rooms;
4. Public libraries;

In terms of adopting green products, SAS will continue to help lead the way by offering such cutting-edge technologies as the 3M Novec 1230 Fire Protection Fluid. The benefits of this outstanding product include:

1. Global Warming Potential of 1;
2. Atmospheric life of three to five days (as compared to 31-42 years in the case of FM-200 system);
3. Zero ozone potential;
4. Full compliance with the Kyoto Protocols.

SASNET: AN INCUBATOR OF INNOVATION

Launched in 2011, SASNET is our newest department, dedicated to helping harness the very best potential of SAS. SASNET is an incubator of new ideas and a resource for contributing to the continued growth of SAS. Operating within our Head Office in Jeddah, it fosters technological innovation, sustained product development, and high-quality service delivery. With this in mind, SASNET is designed to motivate the company’s brightest minds, help them grow professionally, and award them for their exceptional ideas.

SASNET helps ensure the short- and long-term development of SAS by analyzing consumer trends and future market prospects, positioning the company to engage in areas of demand, and striving to maintain a leadership role in the market by introducing innovative products and services. In this respect, SASNET sets directions for optimizing human and technical resources as well as intangible assets such as company reputation and brand recognition through public relations.

Following its establishment in July 2011, SASNET has been quick to prepare the groundwork for the realization of its objectives. An early accomplishment was SASNET’s instrumental role in the company’s participation in two industry exhibitions, the IFSEC Arabia Exhibition, held in Riyadh, and the Saudi Electricity Company Exhibition, held in Jeddah. SAS products and services showcased at these exhibitions have garnered high praise, especially from the Saudi Electricity Company, one of our oldest and most valued clients.

Our presence at high-profile trade shows will certainly grow in 2012. Such shows include the Intersec Exhibition, in Dubai. Our presence there will bring us a new measure of international exposure, especially given our current expansion into Qatar.

SASNET plans for 2012 include fostering professional excellence; revamping the SAS website; expanding the company’s marketing and public-relations operations; conducting local- and international-market analysis; establishing the annual SAS Award, which will be given to SAS employees for extraordinary new ideas; and assisting in the effort to launch the SAS branch in Qatar.
While technology is the engine that drives SAS, our employees remain our most precious resource. Our various teams — whether consisting of engineers, maintenance technicians, sales representatives, or administrative personnel — are hand-picked, based on a distinct set of criteria. These have to do with not only solid experience, knowledge, and skills, but a certain work ethic that underscores selfless and conscientious dedication. It’s a formula that has served SAS extremely well since 1986, helping ensure the company’s growth year after year.

Today, as we’re filled with a deep sense of anticipation before the broad horizon of success, we salute every single member of the SAS family, thanking them for a job well-done.

Waheed Jilani named Employee of the Year

In early January 2012, the first-ever SAS Award was bestowed on Waheed Jilani, recognizing him as the 2011 SAS Employee of the Year. In addition, a Special Recognition was conferred on Angel Tepace, who is retiring from the company this year.

The SAS Award is bestowed on an individual employee who demonstrates outstanding accomplishments in several performance areas including professionalism, teamwork, communication, flexibility, innovation, and integrated thinking.

SAS department leaders and supervisors nominated a total of five candidates for the SAS Award, which is administered by a Selection Committee with support from SASNET. After members of the Selection Committee carefully reviewed the nominees’ respective accomplishments and cast their votes, Mr. Waheed Jilani emerged the winner of the 2011 SAS Award.

A Technical Manager with our Fire Protection Department, Mr. Jilani had made a great impression in the past, with his valuable contribution to projects such as the PP-10, Qurayyah simple-cycle and combined-cycle projects. In 2011, his job performance went beyond the call of duty, as he took on the challenge of single-handedly designing the complete fire-alarm system of the Rabigh Power Plant.

This fact is all the more remarkable considering that, far from being discouraged by a temporary shortage of mechanical engineers in his department, Mr. Jilani actually volunteered to take on the significant load of the project, implementing it with flying colors. Moreover, he took on the responsibility of designing the fire-protection systems for the Hail III and Rafha Power Plant extension projects.

Thus Mr. Jilani is recognized not only for being a hard worker and humble team player, but also an exceptional engineer who comes up with innovative ideas in helping carry out major projects.

Special Recognition conferred on Angel Tepace

A Senior Executive with our Building-management Systems Department in Riyadh, Angel Tepace has loyally served the company since 1989. An outstanding project manager and client-relations administrator, Mr. Tepace ensured the success of every single project by providing our clients with top-notch logistical consultation and technical support.

Also a beloved mentor and a hard-working executive who was always there to assist our site engineers, Mr. Tepace is among those whose efforts have enabled SAS to become one of Saudi Arabia’s most prestigious companies. As we confer our Special Recognition on Mr. Tepace, we wish him the best of luck in his future endeavors.
<table>
<thead>
<tr>
<th>Project</th>
<th>Description</th>
<th>Contractor</th>
<th>Location</th>
<th>Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Saudi Electricity Company substations in Western Region</td>
<td>Maintenance of all fire-protection systems including foam, FM-200, CO2, sprinkler, and deluge systems as well as all pumps and compressor equipment; linking of all systems with main fire-alarm systems</td>
<td>Saudi Electricity Company (SEC)</td>
<td>Jeddah, Madinah, Rabigh, Yanbu, Tabuk, and Duba</td>
<td>SEC</td>
</tr>
<tr>
<td>Power Plant No. 10</td>
<td>Fire-protection system</td>
<td>SEC</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>Islamic Development Bank headquarters</td>
<td>Halon replacement</td>
<td>Islamic Development Bank</td>
<td>Jeddah</td>
<td>Islamic Development Bank</td>
</tr>
<tr>
<td>Industrial Waste Treatment Plant</td>
<td>Fire-protection system</td>
<td>SETE Energy Saudia for Industrial Projects</td>
<td>Yanbu</td>
<td>Marafiq</td>
</tr>
<tr>
<td>Saline Water Conversion Corporation Shuqaiq AWT</td>
<td>Fire-protection system</td>
<td>Timna</td>
<td>Shuqaiq</td>
<td>SEC</td>
</tr>
<tr>
<td>Hail II Power Plant, Extension 3</td>
<td>Reinforcement of fire-protection system</td>
<td>Al Fanar</td>
<td>Hail</td>
<td>SEC</td>
</tr>
<tr>
<td>Rafha Power Plant Extension</td>
<td>Fire-protection system</td>
<td>Saudi Services for Electo-Mechanic Works (SSEM)</td>
<td>Rafha</td>
<td>SEC</td>
</tr>
<tr>
<td>New Head Office Building Archive and Annex Office</td>
<td>Fire-protection system</td>
<td>M. Binladin</td>
<td>Jeddah</td>
<td>Private</td>
</tr>
<tr>
<td>King Khalid University College of Languages and Translation</td>
<td>Fire-protection system</td>
<td>Al Rashid Trading and Contracting Co. (ARTCO)</td>
<td>Abha</td>
<td>Ministry of Higher Education</td>
</tr>
<tr>
<td>500-bed Jeddah Hospital</td>
<td>Fire-protection system</td>
<td>Dub Trading</td>
<td>Jeddah</td>
<td>Private</td>
</tr>
<tr>
<td>Jeddah North Substation</td>
<td>Fire-protection system</td>
<td>Al Oasis</td>
<td>Jeddah</td>
<td>SEC</td>
</tr>
<tr>
<td>Al Qassim Power Plant Expansion, Phase 3</td>
<td>Fully configured security system for plant’s Phase 3 expansion, including installation of surveillance, intrusion-detection, access-control, and alarm systems</td>
<td>Arabian Bemco</td>
<td>Al Qassim</td>
<td>SEC</td>
</tr>
<tr>
<td>Project</td>
<td>Description</td>
<td>Contractor</td>
<td>Location</td>
<td>Owner</td>
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</tr>
<tr>
<td>Bank Aljazira (headquarters and all branches)</td>
<td>Complete overhaul of security apparatus, including fully integrated access-control solution</td>
<td>Bank Aljazira</td>
<td>Throughout Saudi Arabia</td>
<td>Bank Aljazira</td>
</tr>
<tr>
<td>Shoaiba Power and Desalination Plant</td>
<td>Fully configured security system for plant's Phase 3 expansion, including integration with previously SAS-installed access control, CCTV, fiber detection, and microwave intrusion detection</td>
<td>SEC</td>
<td>Shoaiba</td>
<td>SEC</td>
</tr>
<tr>
<td>Qurayyah Power Plant</td>
<td>Complete security scope of plant's combined-cycle conversion. Installed systems provide around-the-clock surveillance, camera recording, and long-term storage of all recorded video. Installed components also include access-control system with turnstile, barriers, and gate barriers</td>
<td>Arabian Bemco</td>
<td>Qurayyah</td>
<td>SEC</td>
</tr>
<tr>
<td>King Abdullah International Airport Private Aviation Hub</td>
<td>Fully integrated security system, following SAS completion of analogous projects at airport's Jet Aviation and Arbaia and Air Arabia buildings in 2010. Project includes following systems: video surveillance, public address, IPTV, FTUs, master clock, and fire protection</td>
<td>Saudi Binladin Group (SBG)</td>
<td>Jeddah</td>
<td>General Authority of Civil Aviation</td>
</tr>
<tr>
<td>Islamic Development Bank, Jeddah</td>
<td>Halon replacement with FM-200</td>
<td>Islamic Development Bank</td>
<td>Jeddah</td>
<td>Islamic Development Bank</td>
</tr>
<tr>
<td>Rabigh Power Plant No. 2</td>
<td>Fire-protection system</td>
<td>Doosan</td>
<td>Rabigh</td>
<td>SEC</td>
</tr>
<tr>
<td>Qurayyah Power Plant</td>
<td>Reinforcement of fire-protection system</td>
<td>SSEM</td>
<td>Eastern Region</td>
<td>SEC</td>
</tr>
<tr>
<td>Marafiq Yanbu IWTP 2</td>
<td>Fire-alarm and fire-protection systems</td>
<td>SETE Energy Saudia for Industrial Projects</td>
<td>Yanbu</td>
<td>Marafiq</td>
</tr>
<tr>
<td>King Abdullah Financial Center 380/132/13.8 KV Substation No. 9020</td>
<td>Fire-protection system</td>
<td>ABB</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>King Abdullah Petroleum Studies and Research Center</td>
<td>Fire-protection system</td>
<td>M.R. Al Khathrani</td>
<td>Riyadh</td>
<td>Saudi Aramco</td>
</tr>
<tr>
<td>New 132/13.8 KV S/S 8142 in Qadisyniya area</td>
<td>Fire-protection system</td>
<td>Al Babtain</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>New 132/13.8 KV S/S 8145 in Nabila area</td>
<td>Fire-protection system</td>
<td>Al Babtain</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>New 132/13.8 KV S/S 8146 in Khalej area</td>
<td>Fire-protection system</td>
<td>Al Babtain</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>New 132/13.8 KV S/S 8150 in Qutas area</td>
<td>Fire-protection system</td>
<td>Al Babtain</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>New 132/13.8 KV S/S 8153 in Sale area</td>
<td>Fire-protection system</td>
<td>Al Babtain</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>Central West Interconnection Qassim Madinah</td>
<td>Fire-protection system</td>
<td>Alstom</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>New 132/13.8 KV S/S 8701 Al-Khara'j Military Base</td>
<td>Fire-protection system</td>
<td>Al Fanar</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>New Rafha Substation</td>
<td>Fire-protection system</td>
<td>Delta</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>New Hiten: 380/132 KV S/S Central Region Telecommunication Control Center building</td>
<td>Fire-protection system</td>
<td>Al Fanar</td>
<td>Riyadh</td>
<td>SEC</td>
</tr>
<tr>
<td>King Khalid University Multispecialty project, including building-management system</td>
<td>Fire-protection system</td>
<td>RTCC</td>
<td>Abha</td>
<td>Ministry of Higher Education</td>
</tr>
<tr>
<td>New Al Mausa and Piazza areas at Al Haram Mosque</td>
<td>Fully integrated sound system. Project entails design and installation of 1,000 line-array speakers and 2,000 ceiling speakers, including amplifiers</td>
<td>SBG</td>
<td>Mekekah</td>
<td></td>
</tr>
<tr>
<td>Project</td>
<td>Description</td>
<td>Contractor</td>
<td>Location</td>
<td>Owner</td>
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<tr>
<td>Al Haram Mosque</td>
<td>Fully integrated CCTV system. Includes design and installation of 800 cameras, eight operator consoles, one supervisor’s console, one VIP console, and ten remote operator stations</td>
<td>SBG</td>
<td>Mecca</td>
<td>Ministry of Interior</td>
</tr>
<tr>
<td>Shoaiba Power Plant</td>
<td>Fully integrated security system. Includes design and installation of intrusion-detection system (comprising cameras, microwave, and fiber-optic cables linked to previous project phase), and access control system with turnstile, barriers, and gate barriers</td>
<td>Alstom</td>
<td>Shoaiba</td>
<td>SEC</td>
</tr>
<tr>
<td>National Commercial Bank (Al Ahli Bank)</td>
<td>Fully integrated low-current system. Includes design and installation of following systems: CCTV, access control, public address, and integrated management</td>
<td>National Commercial Bank</td>
<td>Jeddah</td>
<td>National Commercial Bank</td>
</tr>
<tr>
<td>Substations throughout Eastern Region</td>
<td>Fire-protection systems</td>
<td>ABB</td>
<td>Throughout Eastern Region</td>
<td>SEC</td>
</tr>
<tr>
<td>TASNEE</td>
<td>Integrated security system</td>
<td>SAS</td>
<td>Jeddah</td>
<td>TASNEE</td>
</tr>
<tr>
<td>Manifa Field</td>
<td>Fire-alarm system</td>
<td>Al Oasis</td>
<td>Manifa</td>
<td>Saudi Aramco</td>
</tr>
<tr>
<td>Qurayyah Power Plant</td>
<td>Siemens building-management system for control and monitoring of electrical, mechanical, and HVAC services equipment of entire site</td>
<td>Arabian Benco</td>
<td>Qurayyah</td>
<td>SEC</td>
</tr>
<tr>
<td>Al Haram Mosque</td>
<td>Installation of Siemens building-management systems for control and monitoring of mechanical equipment (variable-speed drives, pumps, heat exchangers) as well as all apparatuses for chilling and treatment of Zamzam water (sand filters, micro filters, ultraviolet sterilizers, storage tanks, and other equipment)</td>
<td>SBG (Advanced Vision)</td>
<td>Mecca</td>
<td>Ministry of Interior</td>
</tr>
<tr>
<td>Al Riyassa Building No. 6, Al Haram Mosque</td>
<td>Installation of Johnson Controls building-management system to control and monitoring of all HVAC equipment or at more than 100 planned facilities</td>
<td>E. A. Juffali</td>
<td>Madinah</td>
<td>Al Riyassa</td>
</tr>
<tr>
<td>Ministry of Interior Integrated Facilities</td>
<td>Installation of Johnson Controls DDC systems for control and monitoring of all HVAC equipment or at more than 100 planned facilities</td>
<td>SBG (Advanced Vision)</td>
<td>Throughout Saudi Arabia</td>
<td>Ministry of Interior</td>
</tr>
<tr>
<td>Park Inn Hotel</td>
<td>Siemens building-management system for control and monitoring of HVAC system, AHUs, chillers, pumps, VAVs, FCUs, fresh-air fans, exhaust fans, and sump pumps as well as monitoring of fire-alarm system, smoke dampers, electrical panels, transformers, Genset, RMUs, and other building services equipment. Integrated with fire-alarm system</td>
<td>Siemens</td>
<td>Riyadh</td>
<td>Holiday Inn</td>
</tr>
<tr>
<td>Project</td>
<td>Description</td>
<td>Contractor</td>
<td>Location</td>
<td>Owner</td>
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<tr>
<td>Udhair Holiday Inn</td>
<td>Johnson Controls building-management system for control and monitoring of HVAC system (PACUs, FCUs, exhaust fans) as well as lighting system, fire-alarm system, smoke dampers, electrical panels, and Genset</td>
<td>Rashid Avenue</td>
<td>Riyadh</td>
<td>Holiday Inn</td>
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<tr>
<td>Rashid Avenue</td>
<td>Johnson Controls building-management system for control and monitoring of FCUs, fresh-air fans, and exhaust fans as well as fire-alarm system, smoke dampers, electrical panels, lighting system, transformers, Genset, RMUs, and fuel-storage tanks</td>
<td>RTCC</td>
<td>Al Khobar</td>
<td>RTCC</td>
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<tr>
<td>Rashid Residence</td>
<td>Johnson Controls building-management system for control and monitoring of FCUs and lighting system</td>
<td>RTCC</td>
<td>Al Khobar</td>
<td>RTCC</td>
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<tr>
<td>King Abdullah City for Science and Technology — 832</td>
<td>Connection of Johnson Controls building-management system to existing JCI workstations of B35 and B36</td>
<td>Al Saadeh</td>
<td>Riyadh</td>
<td>King Abdullah City for Science and Technology</td>
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<tr>
<td>Taibah University Education and Administration buildings (42A and 42B)</td>
<td>Installation of fire-protection systems (foam, FM-200, etc.) as adjuncts to main fire-alarm system</td>
<td>Madinah Al Naar Est.</td>
<td>Madinah</td>
<td>Taibah University Education and Administration</td>
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<tr>
<td>Islamic University Oussoul El Din College</td>
<td>Programming, testing, and commissioning of main fire-alarm system (covering all student rooms and electrical and mechanical areas)</td>
<td>ALIA Electro-Mechanical Company</td>
<td>Madinah</td>
<td>Islamic University</td>
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<tr>
<td></td>
<td>Installation of complete fire-protection system, including FM-200, R-102 kitchen-hood systems, and fire-alarm-panel networks; installation of Global Fire software for entire structure</td>
<td>Tabbah Armas Hotel</td>
<td>Al Khobar</td>
<td>RTCC</td>
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<tr>
<td></td>
<td>New 132/13.8 KV Substation No. 8144 in Nasim area</td>
<td>SAS</td>
<td>Riyadh</td>
<td>SAS</td>
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<td></td>
<td>Fire-protection system</td>
<td>Al Toukhi Co.</td>
<td>Riyadh</td>
<td>SEC</td>
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<td></td>
<td>New 132/13.8 KV Substation No. 8128 in Azizia area</td>
<td>SAS</td>
<td>Riyadh</td>
<td>SAS</td>
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<td>Fire-protection system</td>
<td>Al Toukhi Co.</td>
<td>Riyadh</td>
<td>SEC</td>
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<td></td>
<td>New 132/13.8 KV Substation No. 8160 in Rabia area</td>
<td>SAS</td>
<td>Riyadh</td>
<td>SAS</td>
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<td>Fire-protection system</td>
<td>Al Toukhi Co.</td>
<td>Riyadh</td>
<td>SEC</td>
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<tr>
<td></td>
<td>Princess Nora University Substations No. 9024, 8183, and 8184</td>
<td>ABB</td>
<td>Riyadh</td>
<td>ABB</td>
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<td>Fire-protection system</td>
<td>Al Babtain</td>
<td>Riyadh</td>
<td>SEC</td>
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<tr>
<td></td>
<td>New 132/13.8 KV Substation 8086 in Information Technology and Communication Complex</td>
<td>ABB</td>
<td>Riyadh</td>
<td>ABB</td>
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<td>Fire-protection system</td>
<td>Al Babtain</td>
<td>Riyadh</td>
<td>SEC</td>
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<tr>
<td></td>
<td>New 132/13.8 KV Substation 8715 at Colleges Complex in Al Khafji area</td>
<td>ABB</td>
<td>Riyadh</td>
<td>ABB</td>
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<tr>
<td></td>
<td>Fire-protection system</td>
<td>Al Babtain</td>
<td>Riyadh</td>
<td>SEC</td>
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<tr>
<td></td>
<td>New 132/13.8 KV Substations No. 8191, 8192, 8193, and 8194</td>
<td>ABB</td>
<td>Riyadh</td>
<td>ABB</td>
</tr>
<tr>
<td></td>
<td>Fire-protection system</td>
<td>Al Babtain</td>
<td>Riyadh</td>
<td>SEC</td>
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</tbody>
</table>

**Owner**

- The Oberoi Hotel
- Madinah
- The Oberoi Hotel

**Contractor**

- Saudi ETA (Electromechanical and Technical Associates)
- Al Toukhi Co.
- ABB
- Al Babtain
- Al Fanar
- Taiba Investment and Real Estate Development Company

**Location**

- Riyadh
- Al Khobar
- Madinah
- Riyadh
- Riyadh
- Riyadh
When a job well-done is appreciated by our valued peers, it renders our work all the more worthwhile and rewarding.

Ever since the inception of SAS Systems Engineering in 1986, our engineers, technicians, and company as a whole have been honored with numerous awards, certificates, and letters of appreciation by clients and partners alike.

The following are but a few of the expressions of praise we have humbly received in the recent past.

> In 2011, the Saudi Electricity Company (SEC), one of our all-time top clients, bestowed its prestigious Certificate of Appreciation on SAS engineer Mukhtar Farid, in recognition of his exceptional contributions to the field of fire protection. The Certificate was awarded to Mukhtar in connection with a fire alarm and firefighting training which he conducted in late June for the SEC Safety and Security Department, as well as his years of service to the SEC. Mukhtar has been the brain and driving force behind the development of our fire protection and fire alarm systems. As importantly, he has been a mentor to many of our engineers, and a man whose kindness, generosity, and dedication remain simply exemplary.

> Also in 2011, Alstom and Saudi Archirodon awarded SAS a Certificate of Appreciation, recognizing our company’s Security Systems Site management for completing 10,000,000 Safe Man-hours on the Shoaiba Power project, Stage III, without Lost Time Injury.

> Recently Kidde Fire Systems, a division of UTC Fire and Security, bestowed its Certificate of Excellence on SAS. The award was given in recognition of our company’s “high standards and performance in Top Overall Sales” in the Middle East region.

> In addition to such awards, SAS continues to be recognized for being a member in good standing of eminent industry organizations such as the National Fire Protection Association.

### OUR PARTNERS

<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXIS</td>
<td>Sweden</td>
<td>IP cameras</td>
</tr>
<tr>
<td>Bosch</td>
<td>Germany</td>
<td>CCTV</td>
</tr>
<tr>
<td>CAME</td>
<td>Italy</td>
<td>Gate-entry components (road blockers, barriers, bollards)</td>
</tr>
<tr>
<td>Casi Resco/GE</td>
<td>USA</td>
<td>Access control</td>
</tr>
<tr>
<td>Chemguard</td>
<td>USA</td>
<td>Foam systems for fire protection</td>
</tr>
<tr>
<td>Cima</td>
<td>Italy</td>
<td>Microwave</td>
</tr>
<tr>
<td>Duran Audio</td>
<td>Holland</td>
<td>Revolving doors</td>
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<tr>
<td>EST-Edwards</td>
<td>Canada</td>
<td>Sound systems</td>
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<tr>
<td>Extron</td>
<td>USA</td>
<td>Fire alarm</td>
</tr>
<tr>
<td>GE</td>
<td>Switzerland</td>
<td>Audiospatial systems</td>
</tr>
<tr>
<td>Gemcos</td>
<td>Germany</td>
<td>Public-address systems</td>
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<tr>
<td>Geudebruck</td>
<td>Germany</td>
<td>Banner/Omni CCTV</td>
</tr>
<tr>
<td>Giacomini</td>
<td>Italy</td>
<td>System-management platform</td>
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<tr>
<td>GO Fire Protect Pvt.</td>
<td>India</td>
<td>Fire-protection systems</td>
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<tr>
<td>Johnsson Controls</td>
<td>USA</td>
<td>Fire-protection systems</td>
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<tr>
<td>Kaba Door System</td>
<td>Germany</td>
<td>Building-management systems</td>
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<tr>
<td>Kennedy/Muller</td>
<td>USA</td>
<td>Access control</td>
</tr>
<tr>
<td>Kidde Fire Systems</td>
<td>USA</td>
<td>Gate valves</td>
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<tr>
<td>Leonici</td>
<td>Switzerland</td>
<td>FM-200, CO2, Novac 1230, kitchen hood fire protection</td>
</tr>
<tr>
<td>Loewe</td>
<td>Germany</td>
<td>Cables</td>
</tr>
<tr>
<td>Maritoff</td>
<td>Finland</td>
<td>LCD TV</td>
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<tr>
<td>Masterguard</td>
<td>Germany</td>
<td>H-Fog water-mist systems</td>
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<tr>
<td>Microm</td>
<td>Canada</td>
<td>UPS</td>
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<tr>
<td>Minarex</td>
<td>USA</td>
<td>Fire alarm/ps alarm</td>
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<tr>
<td>Moser Baer</td>
<td>Switzerland</td>
<td>Fire-protection systems</td>
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<td>National Foam</td>
<td>USA</td>
<td>Clock systems</td>
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<td>Notifier (Honeywell)</td>
<td>USA</td>
<td>Foam systems for fire protection</td>
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<td>Pevac</td>
<td>Holland</td>
<td>Fire alarm/ps alarm</td>
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<tr>
<td>PIPS</td>
<td>UK</td>
<td>Road blockers</td>
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<td>Retrotech</td>
<td>Canada</td>
<td>Car plate recognition systems</td>
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<td>Rheinmuth</td>
<td>Germany</td>
<td>Room-integrity systems for fire protection</td>
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<tr>
<td>Schneidar</td>
<td>Switzerland</td>
<td>Radars, thermal cameras, laser target detection</td>
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<td>Siemens</td>
<td>Germany</td>
<td>Sound systems</td>
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<tr>
<td>Smith &amp; Herrmann</td>
<td>France</td>
<td>Building-management systems</td>
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<tr>
<td>Snap TV</td>
<td>Italy</td>
<td>X-ray machines</td>
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<tr>
<td>Sony</td>
<td>USA</td>
<td>IP TV systems</td>
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<tr>
<td>Southwest Microwave</td>
<td>USA</td>
<td>Flight information display systems</td>
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<tr>
<td>Symbol</td>
<td>USA</td>
<td>Perimeter security solutions</td>
</tr>
<tr>
<td>Synoptics</td>
<td>USA</td>
<td>Frame detectors</td>
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<tr>
<td>UTC Fire &amp; Security</td>
<td>USA</td>
<td>Long-range surveillance systems</td>
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<tr>
<td>Viking</td>
<td>USA</td>
<td>Fire alarm</td>
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<td>William Eagle</td>
<td>UK</td>
<td>Fire-protection systems</td>
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<tr>
<td>Synectics</td>
<td>USA</td>
<td>Fire-protection systems</td>
</tr>
</tbody>
</table>

### OUR CLIENTS

- Al Babtain
- Al Fanar
- Al Rashid Trading & Contracting Company (RTCC)
- Al Rajzeza
- Al Seif
- Al Souki
- Al Zahran
- Al Tamim
- Arabian Benco
- Ballast Nedam Group
- Chevron
- Chiyoda
- Delta
- Doosan Heavy Industries
- General Authority of Civil Aviation
- General Presidency of the Affairs of the Two Holy Mosques
- Hilton Worldwide
- Holiday Inn
- Hitachi
- Hyundai
- Intercontinental Hotels
- Islamic Development Bank
- King Abdulaziz City for Science and Technology
- Linacre
- Maxoil
- Ministry of Defense
- Ministry of Health
- Ministry of Higher Education
- Ministry of Interior
- National Commercial Bank (Al Ahli Bank)
- S. A. Kent
- Saline Water Conversion Corporation (SWCC)
- Saudi Arabian Basic Industries Company (SABIC)
- Saudi Arabian Total Refinery Project (SATREFP)
- Saudi Aramco
- Saudi Bintagion Group (SBG)
- Saudi Electricity Company (SEC), Central, Western, Eastern, and Southern regions
- Saudi Iron and Steel Company (Hadaf/SAIC)
- Saudi Oger
- Saudi Services for Electric-Mechanical Works (SSEM)
- Saudi Specialist Construction (SSC)
- Saudi Telecom Company (STC)
- Siemens AG
- Spicchem
- Sojitz
- TASNEE
- Marafiq
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- Ministry of Health
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- Saudi Arabian Basic Industries Company (SABIC)
-沙特阿拉伯基本工业公司(SABIC)
THE ROAD AHEAD

Gearing up for a banner year

Two thousand and twelve is poised to be a year of unprecedented growth for SAS Systems Engineering.

Our confidence stems equally from our philosophy of continuously building on our technological expertise and services, and the fact that a number of endeavors that were launched in 2011 will bear fruit during the coming year.

In a global market propelled by breakneck technological change, SAS remains at the forefront because of an abiding commitment to engage in nothing less than the state of the art. Thus in 2012 we will continue to offer the very latest products from renowned companies such as UTC, 3M, Kidde, GE, Lenel, Geutebruck, Interflex, Giacomini, Chemguard, and Spectrex, among many others. As notably, our outstanding teams of engineers will continue to burn the midnight oil as they will set out to design tomorrow’s turnkey systems.

It is one thing to offer a full spectrum of cutting-edge products; quite another to devise, install, test, and deliver custom-tailored, fully integrated systems that work flawlessly. In 2012, our engineers will put the mark of their creations on many of Saudi Arabia’s most prominent public, industrial, commercial, and residential sites. Our numerous projects in the pipeline include the massive Shamiya Mekkah sound-system initiative; and the security project for the Rabigh 2 Power Plant, the largest of its type in the whole of the Saudi Kingdom.

In terms of technological advancement, 2012 will see fresh solutions across the breadth of our operations, whether they be in fire protection, security, communications, or building-management systems.

In the field of fire protection, for instance, we will focus heavily on water-mist systems, which maximize fire protection, minimize environmental impact, help save precious water resources, and enable us to provide fire protection to previously inaccessible areas. Our fire-protection systems will also enter a new phase of great potential as we will make extensive use of the 3M Novac 1230 Fire Protection Fluid. A marvelous product that has minimal environmental impact, Novac 1230 has so impressed us that in 2011 we conducted a series of seminars and trainings specifically devoted to it.

Another field in which we will certainly evolve is information technologies, and information security in particular. SAS prides itself on having a superlative IT team dedicated to safeguarding the integrity of all company communications and information assets, internal and external alike. Rock-solid security and peace of mind: these will remain the twin objectives of our IT engineers.

One name that will come up quite frequently in 2012 is SASNET. That’s because this six-letter word is in fact a far-reaching concept and an institution in its own right, encapsulating our own vision of corporate excellence. We launched SASNET in 2011 as both an incubator of new ideas and a conduit for continuously enhancing our operations. Therefore SASNET will bloom in 2012 to function as a key resource for training staff, conducting marketing and public-relations campaigns, organizing our participation in industry exhibitions, helping us formulate business strategies, and administering the SAS Award, a prize which will be bestowed on employees who propose the best new ideas.

Today we are as enthusiastic about possibly our boldest move yet, the expansion of SAS into the Emirate of Qatar.

Given the consistent growth of our company in the past several years, its solid international reputation, and expanding demand in the Gulf region for our specialized services and products, we decided the time had come to launch a branch in our neighboring Emirate. In 2012, as we establish our operations in Qatar, our success there will be built in significant measure on our partnership with Megatrade, one of the Emirate’s most reputable and fastest-growing conglomerates.

Finally, 2012 will be important for SAS in terms of continually enhancing our corporate-governance practices. We have always believed that business success must absolutely be conditioned by business conduct of the highest standards. Moreover, it is our deep conviction that a company such as ours must be a model corporate citizen, respecting and helping protect our precious natural resources and the environment as a whole, and being a valuable and generous member of the communities in which we work.

At this juncture, as we transition into a new year, we once again convey our profound gratitude to our clients, suppliers, and partners for the honor of enjoying their trust. As importantly, we say a heartfelt “Thank you” to our entire staff, our wonderful and dedicated teams, for making it all happen.
In 2011, everyone at SAS was deeply saddened by the untimely death of one of our dear colleagues, Mr. Ala’a Al Turki.

Only 36 years old at the time of his passing, Ala’a had been a valuable member of our Security and Communications Department. He is remembered as a vivacious young man who was dedicated to his calling and always eager to contribute to the success of the department in which he served.

Last year we also grieved the death of Mr. Hassan Al Ghamdi, a beloved colleague who worked as a cashier at our Accounts Department. An honest, respectable, and hard-working individual, Hassan loyally served SAS from 1996 until his retirement in 2010.