



LEBANON

INFRASTRUCTURE

PROJECTS

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OUTLINE

| | |
|--|--------------|
| Water & wastewater projects | p. 03 |
| Transport projects | p. 23 |
| - Road transport projects | p. 24 |
| - Sea transport projects | p. 28 |
| - Air transport projects | p. 31 |
| Energy projects | p. 34 |
| - Electricity projects | p. 35 |
| - Renewable energy projects | p. 38 |
| - Oil and gas projects | p. 43 |
| Public construction projects | p. 47 |
| Private construction projects | p. 54 |
| Industry construction projects | p. 68 |
| Health construction projects | p. 73 |
| Tender authorities' | p. 78 |

WATER
&
WASTEWATER
PROJECTS

JBEIL CAZA **WATER AND WASTEWATER PROJECT**

| | |
|---------------------|--|
| Client: | “Council for Development and Reconstruction” (CDR) |
| Developer: | “Cooperativa Edile Appennimo” - Italian company |
| Description: | <p>The wastewater networks will involve the laying of pipes, construction and equipping of pumping stations and construction and equipping of a wastewater treatment plant and house connections. The treatment plant in the vicinity of Amchit has already been completed.</p> <p>This network will cover Byblos, Amchit, Blat, Edde, Kfar Mashoun, Jadayel and Hisrayel through an Italian financing which will benefit the rest of the towns and villages in Byblos district.</p> |
| Financing: | Italian government |
| Value: | €38 million of which €19 million are dedicated to wastewater |
| Status: | The first phase of the wastewater networks was launched at the beginning of 2014. The project will take two and a half year to complete |
| Comments: | The project will benefit more than 50.000 people |

GREATER BEIRUT WATER SUPPLY PROJECT (GBWSP) **Also known as the AWALI PROJECT**

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|----------------|--|
| Client: | “Beirut Mount Lebanon Water Establishment” (BMLWE) and “The Council for Development and Reconstruction” (in charge of preparation of necessary studies and awarding and overseeing the works related to the construction of the tunnel, transmission lines, and central reservoirs during stage I) |
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Consultant: “Dar Al-Handasah Shair and Partners” - Lebanese company

Financing: The Cabinet has ratified a \$200 million loan agreement with the World Bank. The loan's grace period is five years. Reimbursement will begin in 2017 and will be concluded by 2023. Loan payments will be made in semi-annual installments equivalent to three percent of the loan value. The loan only covers part of the project's total cost which amounts to \$370 million. The Beirut Mount Lebanon Water Establishment (BMLWE) will finance the remaining amount.

Value: \$370 million

Description: The project development objective of the Greater Beirut Water Supply Project for Lebanon is to increase the provision of potable water to the residents in the project area within the Greater Beirut region, including those in the low-income neighborhoods of Southern Beirut, and to strengthen the capacity of the Beirut Mount Lebanon Water Establishment in utility operations.

The project is expected to carry 40 million cubic meters of water per year to a reservoir connected to all areas of Greater Beirut. This aims to boost supply to all areas at altitudes lower than 300 meters above sea level.

There are three components to the project. Component one: bulk water supply infrastructure.

Component one will comprise:

- (a) the construction and construction supervision of bulk water supply infrastructure;
- (b) design, construction and construction supervision of a water treatment plant (WTP) of 250.000 cubic meters a day capacity;
- (c) all related equipment including pumps and valves; and
- (d) support to Council for Development and Reconstruction for project management. Component two: supply reservoirs, distribution network and metering.

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Component two will comprise:

- (i) design, construction and construction supervision of 16 supply reservoirs of storage capacities varying between 500 and 1.000 m³ each, dispersed within the project area, and associated pumping stations;
- (ii) design, construction and construction supervision of water supply distribution network of about 187 km of pipelines across the project area in southern Beirut and parts of the Metn, Baabda and Aley areas;
- (iii) installation of 200.000 household meters in selected project areas; and
- (iv) installation of about 30 bulk water meters at reservoirs and distribution chambers.

Component three - project management, utility strengthening and national studies:

Component three will focus on utility strengthening and will also strengthen the capacity of the Ministry of Energy and Water for project oversight.

In short, the purpose of this project is to supply 750.000 m³ of water daily to Greater Beirut, in two stages. In the first stage 250.000 m³ will be transmitted from the Awali River. In the second stage, a dam will be constructed on the Bisri River to supply the remainder daily 500.000 m³. The first stage will consist of constructing a 24 km long tunnel, a water refinement station, and 2 transmission lines 9 km long and 1.400 mm wide each, to aliment 3 central reservoirs in Hadath and Hazmieh, local reservoirs and distribution lines.

The second stage consists of constructing the Bisri dam.

Status:

According to the World Bank, project implementation has been delayed on several subcontracts of the project and construction activities have not yet begun. The closing date is set for June 30, 2016.

Comments:

Lebanon's government has been planning ways to improve the water supply in Greater Beirut since the early 1960s. Experts have warned that unless Lebanon upgrades its water network, the state could suffer from chronic water shortages by as soon as 2020.

Lebanon is the most water-abundant country in the Middle East and North Africa region which is considered the world's driest region. Despite this fact, the Greater Beirut area, home to 40% of the Lebanese population, has been suffering from shortages in potable water for the last forty years. This is mainly due to the lack of proper water storage facilities, increased demand and inefficient distribution networks, all compounded by many decades of political conflict in the country.

BISRI DAM/
GREATER BEIRUT WATER SUPPLY AUGMENTATION
PROJECT (GBWSAP)

Client: “Council for Development and Reconstruction” (CDR)

Description: To overcome increasing severe shortages in public water supply, the Government of Lebanon (GoL) through the Council for Development and Reconstruction (CDR), the Ministry of Energy and Water (MEW), and the Beirut and Mount Lebanon Water Establishment (BMLWE), has initiated the Greater Beirut Water Supply Augmentation Project (GBWSAP) to identify the most significant environmentally and socially acceptable, technically viable and economically efficient alternative to the medium and long term provision of potable quality water throughout the Greater Beirut Area.

The Bisri site, where the GBWSAP will be constructed, is located some 15 km inland from the Mediterranean coastline at Saida, and 35 km south of central Beirut. GBWSAP involves the construction and operation of a series of infrastructure, notably:

- A clay Rock-fill dam of 73 m height with 12 m and 760 m dam crest width and length respectively,
- An impoundment of c. 398 ha of lands at a normal water level of 461m behind the constructed dam accommodating for a total storage capacity of 125 Mm³,

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- Twin-1.400mm-water conveyor line of c. 4 km length, with a conveyance capacity of 6m³/s, transporting the dam water to the Awali Lac downstream, from where water, of the Dam, will be channeled into the exiting Joun Tunnel until the Takeoff point located upstream Joun HEP,
- On top of the c. 4km buried conveyor line, a service access road of same conveyor length will be constructed together with an access road around the lake as well,
- One small Hydropower Plant (0.2 MW) at the feet of Dam and another 8-10 MW downstream plant at the discharge of the water transmission line will be constructed.

The Bisri project will have a storage capacity of 125 million m³. It will be the second-largest dam in Lebanon after Karaoun.

Water stored in the Bisri dam will flow to Beirut through an underground tunnel, the Ouardaniyeh water treatment plant and large storage tanks currently under construction as part of the Awali project.

Financing:

The World Bank has approved its largest-ever financing of the \$474 million Water Supply Augmentation project. The soft loan is for 20 years and has a five year grace period. The project will be co-financed by a \$128 million loan from the Islamic Development Bank which will require ratification by both the Lebanese Parliament and government. The latter is expected to make \$15 million investment in the project.

The loan will be repayable over 20 years, including a five-year grace period, at standard variable interest rate for LIBOR-based loans

Value:

\$617 million

Status:

The CDR has called in June for the expression of interests from individual experts to be part of an international Panel of Environment and Social Experts (ESP). The objective of the ESP is to ensure that the components of the project, as designed and built, comply with international standards of excellence and safety for water resources infrastructure.

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Also in June, the CDR launched the application for prequalification procedures for the construction of the Bisri Dam. The closing date for the prequalification submission is 3 September 2015.

When the project takes off, the CDR is expected to complete construction within a five to seven-year period.

The World Bank has just extended the deadline from July 20 until end of 2015 for Lebanese authorities to approve the \$474 concessional loan to finance the project. The bank warned however that it would reallocate to other countries the funds currently earmarked for the scheme of the Lebanese authorities fail to ratify the loan before the end of the year.

The project, which will be implemented over nine years to allow for the startup work ahead of construction and two years of operation and maintenance, will benefit more than 1.6 million people living across the GBML area, including 460.000 people living on less than \$4 per day, the national poverty line.

Comments:

The Wadi Bisri region in south Lebanon where the dam will be built is flanked by thousands of hectares of agricultural lands, stretching from the Bisri River to the towns of Bteddine al-Laqsh, Taeid and Mazraat al-Mathaneh. Most of Bisri's inhabitants count on agriculture to make a living, and the region is known for the cultivation of citrus, cereals and olives.

The project is an integral part of the government's 2012 plan aimed at delivering increased access to water supply and irrigation across Lebanon, which stores only 6% of annual available water.

The Water Supply Augmentation Project was designed to complement the Greater Beirut Water Supply Project, better known as the Awali project. The Awali project, which is partially funded by the World Bank, was designed to meet the short-term needs of the GBML area for potable water.

Households in the GBML area spend up to 15% of household expenditure on securing water, a World Bank survey of 1.200 beneficiary households' shows.

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By adding the Bisri dam upstream of the Awali infrastructure, the government will secure water for the GBML in the medium and long term.

The World Bank will be supervising the project throughout its implementation phases and disbursing funds in installments as necessary during each phase.

An international panel of experts on dam safety will also be responsible for reviewing the technical, and safety aspects of the dam design while mitigating environmental and social on local communities that should benefit from employment opportunities.

ZAHLE POTABLE WATER NETWORK

| | |
|---------------------|---|
| Client: | “Bekaa Water Establishment” (BWE) |
| Description: | The project includes the construction of water reservoirs and installation of pipes and distribution networks. It aims at reducing water leakages and water service disruptions, as well as improving water pressure. The final objective is to provide drinking water to 43 villages in west Bekaa and east Zahle. |
| Financing: | A \$21 million loan agreement was signed with the “Kuwaiti Fund for Arab Economic Development” (KFAED) in June 2014. |
| Value: | \$30 million |
| Status: | Completion is expected in 2015/2016 |
| Comments: | Expanding domestic populations and the influx of refugees from regional conflicts is increasing demand on scarce water resources in Lebanon and across the Middle East. The scarcity is compounded by insufficient and aging infrastructure, which not only fails to adequately deliver clean water to communities, but loses precious water through leaking lines. |

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Also, starting in May 2013 in the city of Zahle, USAID rehabilitated seven water lines to provide access to potable water to thousands of Lebanese citizens. Its water network was reported to be one of the most deteriorated in the country because of aging infrastructure and lack of capital investment. USAID replaced aged and leaky branch network lines, added small extensions to some districts' pipelines and upgraded some upstream connections, thereby increasing the water supply to these districts and allowing for a larger number of beneficiaries to be served.

JANNA DAM PHASE

| | |
|------------------------------|--|
| Client: | “Beirut Mount Lebanon Water Establishment” (BMLWE) |
| Developer (phase I): | “Consolidated Engineering and Trading” – Lebanese company |
| Developer (phase II): | “Andrade Gutierrez” (AG) - Brazilian company |
| Description: | <p>The establishment of a dam on the River of Nahr Ibrahim on the debit of 735m with the following specifications:</p> <ul style="list-style-type: none">- A dam made of concrete compacted with a roller- The height of the dam is 100 m- The capacity of the lake is 38 million m³ up to 90 million <p>Phase I includes building a conveying tunnel and access roads, while phase II entails the construction of the dam in the area of Nahr Ibrahim (Mount Lebanon).</p> |
| Value: | \$200 million |
| Status: | The construction of a dam in the area of Janna, has however caused wide controversy among local residents, ecologists and even certain politicians. Janna, whose name means ‘paradise’ in Arabic, is a picturesque valley near Ibrahim River in north Lebanon, which hosts a rare ecosystem according to ecologists. Concerned Lebanese fear that this project will ruin the natural site without succeeding in retaining water. They warn that the |

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Embassy of Belgium

surface on which the dam is being built covers large pits that absorb water. There are also fears that the project might threaten the water source that feeds the Jeita Grotto, a submerged cave known as a tourist destination.

The Minister of Environment therefore issued a decree in January 2015 to suspend all works on the “Janna Dam Project”, awaiting the environmental impact study of the Ministry of Energy’s Committee for the Environment.

QAISSAMANI DAM

| | |
|---------------------|---|
| Client: | “Council for Development and Reconstruction” (CDR) |
| Consultant: | A joint venture between the local “LibanConsult AGM” and the “Kuwaiti Associated Consulting Engineers” (ACE) |
| Contractor: | “Mouawad-Eddé” - Lebanese company |
| Description: | Located in Falougha-South Metn, the Qaissamani dam will have the capacity to store one million cubic meters of water. The rock-fill dam is 200 meters wide, 30 meters high. The dam will supply more than 30 villages with potable water and benefit around 50,000 inhabitants in the southern Metn area. |
| Financing: | “Kuwait Fund for Arab Economic Development” (KAFED) will finance the larger part and CDR the remaining cost. |
| Value: | \$23 million |
| Status: | Construction of the Qaissamani Dam in Falougha (Metn) has begun, following two years of delays and protests. The project is due to completed within three years. |

BALAA DAM

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|---------------------|--|
| Client: | “Ministry of Energy and Water” (MoEW) |
| Contractor: | “Mouawad Edde” – Lebanese company |
| Description: | Construction of a dam that is expected to supply 40.000 residents with water in at least ten villages. It will be located in the town of Chatin, at 1.490 m above sea level. The dam will be 400 m long and 35 m high and will be composed of rock sediments. It will be able to hold 1.2 million m ³ of water in static storage and 2.1 million m ³ in dynamic storage. |
| Financing: | Unknown |
| Value: | \$40 million |
| Status: | Construction was launched at the end of June 2013. The project will be completed in 2016. |
| Comments: | In 2012, Iran granted Lebanon a \$40 million cash donation to finance the construction of the Balaa dam. The Iranian assistance drew heavy criticism from Lebanese political leaders who do not agree with Iran financing it. |

SOUR WASTEWATER TREATMENT PLANT **SEA OUTFALL**

| | |
|---------------------|---|
| Client: | “Council for Development and Reconstruction” (CDR) |
| Contractor: | “J.V. Research Consorzio Stabile” and “Research SPA” – Italian joint-venture |
| Description: | Design and construction of the Sour coaster area wastewater treatment plant (WWTP) sea outfall. |

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
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The Contract is based on FIDIC Plant and Design-Build Conditions (1st Edition 1991) and includes the following:

- The detailed design of the onshore and offshore sections of the Sour WWTP Sea outfall pipeline.
- The construction of approximately 585 m onshore section of an 1100 mm diameter gravity pipe.
- The Construction of approximately 1355 m offshore section of an 1100 mm diameter pipe with a diffuser section not less than 150 m.
- The supply and installation of a pipe cleaning device

Financing: “European Investment Bank” (EIB)

Value: €11.5 million

Status: The contract was awarded in September 2014

Comments: Around 65% of the Lebanese population is connected to wastewater networks, almost all households in areas of high density. There are 13 coastal treatment plants and a much larger number constructed inland. However, only around 8% of the overall sewage is treated because existing networks are not linked to treatment plants.

WEST BEKAA WASTEWATER PROJECT

Client: “Council for Development and Reconstruction” (CDR)

Consultants: “Dar Al Handassah Nazih Taleb” – Lebanese company
“Montgomery Watson Harza” – American company

Description: The project aims to provide with its two phases wastewater treatment for the entire area.

The second phase includes the construction of pipelines linking the network of 11 pumping plants also to be constructed.

Financing: “Islamic Development Bank” (IDB)

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

Value: \$27 million loan for phase 2 to be repaid over a period of 19 years.

Status: The Parliament ratified in June 2015 a loan agreement with the Islamic Development Bank (IDB) for the implementation of the second phase of the wastewater treatment project in West Bekaa. The first phase was also funded by the IDB.

KESEROUAN WASTEWATER PROJECT (KWWP)

Client: “Council for Development and Reconstruction” (CDR)

Description: To build two wastewater treatment stations on the Keserouan coast: design and construction of Ghazir and Zouk-Mikael wastewater treatment plants, sea outfalls, pumping and lift stations, main collectors and networks within the framework of KWWP.

Financing: €70 million from “Agence Française de Développement” (AFD) and €70 million from “European Investment Bank” (EIB)

Value: \$205 million

Status: The CDR is updating studies and elaborating tender documents relating to this project.

LITANI PROJECT

Also known as CANAL 800 PROJECT

Client: “Litani River Authority” (LRA)
“Council for Development and Reconstruction” (CDR)

Consultant: “Dar Al Handasah – Shair and partners” – Lebanese company: prepared a feasibility study and a preliminary design of a 50 km

Lebanon – Infrastructure Projects 2015

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main conveyor and 53 km of secondary conveyors with a total capacity of 10 m³/s, located at Qaraoun Dam along the Litani River.

Contractors phase 1: Joint venture between the Kuwaiti group “Mohamed Abdulmohsin Kharafi” and two Turkish companies: “Vinsan Veziroglu” and” Guris”.

Description: Canal 800 would convey around 120 million m³ of water from the Qaraoun Dam, on the Litani River, to irrigate 1.500 hectares of agricultural land under 800 meters of elevation. The project covers 98 villages in Nabatieh, the Marjayoun plain and South Litani to the southern borders. The project aims to supply water for irrigation and drinking purposes.

It will be implemented in two phases:

The **1st phase** also known as **Conveyor 800**, consists of building a 52-km main pipeline with 56-km of secondary pipelines, starting downstream from the Qaraoun Dam and upstream from the Markabe Power Plant. The pipelines will run southward, east of the Litani River, to the southern international boundaries and supply 12 agriculture areas of 1.500 hectares with 120 million m³ meters of irrigation water and 98 villages with 20 million m³ meters of domestic water.

The **2nd phase** includes the construction of a main water conveyor, tunnels, a small hydropower production plant and reservoirs.

About 20 million m³ will be used as additional drinking water source for about 98 southern villages, while the remaining 90 million m³ will be allocated for the irrigation of 14.700 hectares of agricultural land.

Financing: \$109 million loan from the “Kuwaiti Fund for Arab Economic Development” (KFAED) and \$71 million loan from the “Arab Fund for Economic and Social Development” (AFESD).

The two loans are for the second phase, which includes the construction of a main water conveyor, tunnels, a small hydropower production plant, and reservoirs. The loans will have a 3% interest and will be paid over a period of 22 years,

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with a five-year grace period. The agreement still needs the approval of the Cabinet.

The Lebanese government has also allocated \$26.4 million for the project from the budget of CDR.

Value: \$360 million - total cost

Status: The LRA has launched the 1st phase of the Canal 800 project in July 2014. This phase will be completed within two years.

LITANI RIVER CLEAN UP PLAN

Client: “Litani River Authority” (LRA)

Description: Two new studies published this year revealed high levels of heavy metals and contamination with dangerous bacteria in the Lower Litani River Basin and the Hasbani River, largely due to industrial waste and untreated sewage that is disposed in the water.

The proposal will expand sewage treatment networks, manage solid waste and pesticide pollution into the river, and help factories reduce the dumping of chemicals into the water.

Untreated sewage dumped in rivers is a major cause of the Litani’s contamination, and can affect crops irrigated with water from the river.

Financing: The Lebanese government has already secured \$19 million from the European Union to expand its solid waste treatment facilities in the Bekaa, including a sorting and composting plant for garbage, a facility that generates biogas from waste and a sanitary landfill in Baalbek. Similar plants are also planned for Zahle and Jebjennine.

The World Bank has also approved a \$50 million loan that will expand sewage collection networks in Zahle, Anjar and other areas.

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Another \$15 million World Bank loan will go toward technical assistance for factories to help them comply with environmental regulations that limit the disposal of industrial waste into the river.

Value: \$730 million, out of which \$14 million will go to solid waste treatment, \$2.6 million for agricultural pollution, \$2.6 million for industrial pollution and \$712 million for sewage treatment.

Status: The ambitious seven-year plan has been approved by the Finance and Public Works committees in Parliament and will be put to a vote when legislative sessions resume after the President is elected.

Comments: The Litani provides roughly 160 million m³ of water for irrigation and power generation. Another 60 million m³ is used for storage every year in dry seasons.

Most of the pollution contaminating the Litani comes from solid waste and municipal waste water that is dumped into the river, agricultural pollution from pesticides washing into the water and chemical waste from industrial plants.

The pollution has rendered the water of the Qaraoun Lake unsuitable for drinking or aquatic life. A study commissioned by the European Union in 2012 estimates the economic cost of the pollution in the Upper Litani at about \$230 million.

DANNYEH WATER REHABILITATION PROJECT **PHASE I – PACKAGE I**

Client: “Council for Development and Reconstruction” (CDR)

Description: The Rehabilitation and complementary works for Danniye Water Project (PHASE I – Package 1) project consists of rehabilitation of existing pipes, laying of new pipes, rehabilitation of existing water tanks and construction of a spring intake in lot 3 (Villages of Beyt Hawiq, Hawara, Beyt el

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Faqs, Kfarbebnine, Jouret el Mrah, Hazmiyeh, Sfeyreh, Mrah el Sfeyreh, Maqtouaa, Ayn el Tineh, Qarsita and Nemrine) and lot 5 (Villages of Bakhoun, Bqarsouna, Beyt Moumne, Beyt Jida, Haql el Aazimeh, Sartouka, Qattine, Aasoun and Qatrane) of Dannieh region.

Financing: Italian Government

Status: The tender for prequalification of Italian interested firms was launched in March 2015, while the closing date was in July 2015.

JEITA SPRING PROTECTION PROJECT (JSPP)

Client: “Council for Development and Reconstruction” (CDR)

Description: The project was launched in August 2014 to protect Jeita spring water. This will be done through the establishment of wastewater networks and the construction of a wastewater treatment plant.

Jeita spring feeds more than 60 percent of the Greater Beirut area with potable water, after being refined at the Dbayeh plant.

An environmental impact assessment study was conducted by German experts on the geographical stretch going from Sannine through Afka to Jeita. The study examines where networks should be rehabilitated and developed and where to place possible treatment plants.

The treatment plant will benefit an estimated 45.000 citizens when completed.

Financing: \$27 million loan from the “German Ministry of Economic Cooperation and Development”. The Lebanese government will pay the remaining amount.

The project funding and works are divided into two phases. The first costs \$8 million and includes the installation of wastewater networks between Ajaltoun and Jeita. The second phase costs \$22 million and includes the construction of treatment plant as

Lebanon – Infrastructure Projects 2015

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well as establishment of wastewater networks from Kfardebian to Bkaatouta and Bekaata.

Value: \$30 million

Status: Earlier this year, the CDR has open prequalification bids for both JSPP packages: the construction of the waste water treatment plant Machada; and the construction of the sewer networks, both of which were closed in April 2015.

AL GHADIR WASTEWATER PLANT

Client: “Council for Development and Reconstruction” (CDR)

Description: Expansion of the existing wastewater preliminary treatment plant located in Southern Beirut and its conversion into a primary treatment plant and for the construction and upgrade of sewer networks in the catchment area. Primary treatment is the removal of settled organic and inorganic solids by sedimentation.

The project will improve the poor quality of the coastal water and, through the provision of improved sanitation services, the quality of life for an estimated one million inhabitants (a quarter of the Lebanese population) and will reduce pollution and environmental stress in the Al Ghadir drainage area and the Mediterranean Sea.

Al Ghadir plant covers Beirut and the Caza of Baabda, most of Aley, and part of Shouf, representing 40% of the population.

Financing: The European Investment Bank (EIB) has approved €68 million. The loan will only cover part of the €146 million required to restore and expand the facility. The Islamic Development Bank (IDB) is in talks with the Council for Development and Reconstruction (CDR).

Value: €146 million – total cost

CONTACTS

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Litani River Authority

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Lebanon – Infrastructure Projects 2015

Economic & Commercial Section

Embassy of Belgium

Ministry of Energy and Water (MoWE)

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TRANSPORT PROJECTS

ROAD TRANSPORT

TRIPOLI BUS STATION

- Client:** “Council for Development and Reconstruction” (CDR)
- Description:** The project consists of the execution of a bus station and public parking lot on a 4.000 m² land in Tripoli’s downtown area of Al Tal Square.
- The lot will include a four-story structure, two of which will be used as a public parking and the remaining two as a bus and taxi station. The structure has the capacity for around 500 vehicles.
- One-third of the ground floor will be used as a taxi stand. The remaining space will be made of green spaces.
- Financing:** The Lebanese Government
- Value:** \$20 million
- Status:** The CDR will soon launch a tender for the execution of this project

GREATER BEIRUT URBAN TRANSPORT PROJECT

- Client:** “Council for Development and Reconstruction” (CDR)
- Description:** The CDR is preparing studies to launch a project to develop urban transportation in the Greater Beirut area. The plan focuses on establishing bus routes between Beirut and Tabarja. The bus route will be about 24 km long and will run into sections of the existing Tabarja-Beirut highway and sections of the old railway alignment.

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
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Infrastructure works will include the construction and reinforcement of the dedicated bus routes, the construction of bus stations and access infrastructure and the construction of park and ride facilities and feeder bus stops.

Financing:

Possibly the World Bank Bank's "International Bank for Reconstruction and Development" (IBRD).

The first phase financing will be used for goods and works for the construction of the required infrastructure and associated civil works, as well as consulting services.

The second phase will finance the construction of bus corridors within Beirut and the purchase of new buses to support the Government's plan for improving regular bus services within Beirut.

Value:

\$200 million

Status:

The CDR is discussing financial support and planning with the World Bank to implement the project.

Comments:

The project foresees the strengthening of the capacity of the Ministry of Transport and relative agencies such as the Railways and Public Transport Authority to manage concession contracts with private operators, or to establish a new transport authority that would take the leadership on the planning and regulation of all urban transport. Around \$8 million are needed for institutional strengthening, which includes additional studies for further expanding the public transportation and mass transit coverage in the Greater Beirut area.

Technical assistance, outreach activities and other operational support for management of project implementation would cost around \$2 million.

RAYAK-AL KARAK ROAD RESTORATION

Client:

"Council for Development and Reconstruction" (CDR)

Lebanon – Infrastructure Projects 2015

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Description: The project consists of restoring the road between Rayak and Al Karak in Bekaa by widening it and installing its infrastructure.

This project will not only benefit the 5 municipalities it passes through, but also all of Central and North Bekaa. Among the municipalities the road passes through are Ferzol, Zahle, El Maalaka and Ablah.

The road goes through Hermel and Baalbeck to reach Aleppo in Syria. The necessary expropriations were already completed by the CDR.

Financing: “Kuwait Fund for Arab Economic Development” (KFAED)

Value: \$23 million

Comments: The 7-kilometer road was originally developed 50 years ago and was never restored.

NEW MECANIQUE CENTERS

Client: “Traffic & Vehicle Management Authority”

Description: The Traffic and Vehicle Management Authority is finalizing the terms of reference to launch an international tender for the establishment, operation, and transfer of eight new vehicle inspection ‘mecanique’ centers.

The centers will be located in Kuweikhat-Akkar, Tripoli, Byblos, Shouf, Nabatieh, Tyr, Rashaya, and Baalbek. The land plots are offered by the municipalities and the State will expropriate any private lots required for their establishment.

Only one operator will win the BOT contract for all the new centers, as well as the present ones, which are located in Hadat, Zahle, Majdlaya, and Ghaziyeh, according to Abdel Ghafour.

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

Status: The Authority is waiting for the remarks of concerned ministries, in order to discuss and include them in the terms of reference before raising them to the Tenders Department.

Comments: The term of the Build Operate Transfer (BOT) contract is ten years, non-renewable. However, considering the country's past experience and in uncontrollable circumstances, the contract might be renewed. The contract of the current Saudi operator had expired at the end of 2012, but it has since been renewed several times.

The annual returns for the Treasury will remain fixed at \$4.7 million. The profit and operational cost of the new operator will change, leading to a change in the fees paid by the citizens. The winner of the contract will set the new fees for vehicle inspections.

SEA TRANSPORT

NEW PORT IN SIDON

- Client:** “Ministry of Public Works and Transport”
- Contractor:** “Al Jihad for Commerce and Contracting” – Lebanese company
- Description:** A new port is being constructed in the Dekrman area of Sidon.
- The first phase of the project will include the construction of a 150-meter-long dock and a one-kilometer long jetty. The quay will have an area of 200.000 m² and a depth of 15 meters. The second phase is composed of the construction of another dock to be used for tourism purposes.
- Value:** \$17 million
- Status:** Due to technical delays, the first phase of the project was postponed for 6 months and is expected to be completed by end-2015. The second phase will be completed within four months after the first phase has been completed.

PORT OF TRIPOLI INFRASTRUCTURE WORKS

- Client:** “Port of Tripoli Authority”
- Contractor phase 1:** “Mouawad-Edde” – Lebanese company
- Description:** Infrastructure works for a newly constructed quay began earlier this year at the Port of Tripoli. The infrastructure to be built will include administrative premises, warehouses, a fire station, control rooms, and water and power networks. The project will also include the construction of flexible asphalt pavements.

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

Phase I of the infrastructure works will be carried out over a 50.000 m² plot, near the quay. They will allow the terminal to process up to 400.000 containers per year. The second phase would double this capacity.

Comments:

The UAE-based firm “Gulftainer” won a Build-Operate-Transfer (BOT) contract with the port in 2014 and will be tasked with the finance, design, procurement, construction, operation, and maintenance of the new quay’s infrastructure for the next 25 years.

The \$60 million quay was built two years ago by the China “Harbor Engineering Company” with “Dar al-Handasah Shair & Partners” as the consultant. It is 600 m long and 15.5 m deep. The quay’s completion brings the total number of quays at the port to nine.

JOUNIEH TOURIST PORT

Client:

“Ministry of Public Works and Transportation” (MoPWT)
“Municipality of Jounieh”

Description:

Jounieh launched in October 2014 works to transform its main port into a tourist attraction, able to receive 600 passengers a day.

The Port of Jounieh used to carry passengers out of the country during the Civil War but today it only serves the shipping industry. Its transformation will include the establishment of a passenger hall and a center for general security and customs.

The port had a trial run last summer, when it received tourist charters from Turkey. Once the port has been fully equipped, it would be able to receive charters from Cyprus, Greece, and Egypt.

Financing:

Ministry of Public Works and Transportation & Municipality of Jounieh

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

Value: \$500.000

Status: Slated to be completed this year.

Comments: The Municipality of Jounieh is also preparing to develop a larger tourist port, to be located between the Army port and the Portemilio beach resort, in Kaslik. This port will cost around \$40 million and would attract mega charters able to transport 2.000 tourists, according to a study by the Germany-based BMT.

AIR TRANSPORT

MEA EXPANSION AND DEVELOPMENT PLANS

- Client:** “Middle East Airlines” (MEA) - national airline
- Description:** MEA plans to undertake several projects:
- Establishment of a new building within the existing headquarters.
 - Purchase a simulator for the training of pilots
 - Purchase of a new nine-seat, Brazilian-made, Embraer Legacy 500 for \$19 million and for which the MEA will established a subsidiary to operate private jet services.
- The jet will use MEA’s ground facilities such as maintenance and luggage. The company is considering widening the private fleet by purchasing other jets in the future.
- Financing:** “Middle East Airlines” (MEA) has signed a \$65 million loan with “IBL Bank” to finance the company’s expansion and development plans over the upcoming year. IBL loan has a seven-year term, part of the interest on the loan will be subsidized by the Central Bank.
- Status:** MEA will begin operating its private jet services by the end of 2015. The airline is in negotiations to partner with private jet companies at the Beirut Rafic Hariri International Airport (RHIA). This partnership consists of the MEA using its partners’ planes to serve MEA’s clients.
- Comments:** There are 3 private jet companies operating out of RHIA: “Imperial Jet” (owned by Abed Jaouni), “Open Skies Aviation” (owned by Haitham Azhari), and “Executive Sky” (owned by former Prime Minister Najib Mikati). The 3 have a combined fleet of eight jets.

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Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
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ENERGY PROJECTS

ELECTRICITY PROJECTS

SECOND DEIR AMMAR POWER PLANT PROJECT

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|---------------------|---|
| Client: | “Electricité du Liban” (EDL) |
| Contractor: | “J&P Avax” – a Greek company - in a consortium with US “General Electric”. The tender was won two years ago but was not executed due to lack of funds. |
| Description: | Construction of a new combined cycle plant expected to generate 550 MW. |
| Value: | \$500 million |
| Financing: | Several international funds have in the past expressed interest in financing energy projects. |
| Status: | The Council of Ministers commissioned the Ministry of Finance to look for funds for the development of a second power plant in Deir Ammar. |
| Comments: | EDL owns two combined cycle power plants, one in Deir-Amar, about 85 km north of Beirut, and the other in Zahrani, about 65 km south of Beirut. The construction of the combined-cycle power plants has been carried out by a joint-venture of M/s “Ansaldo Energia” and M/s “Siemens AG”. Each of the two power plants has a total capacity of approximately 450 MW comprising 2x150 MW Gas Turbines and 1x150 MW Steam Turbine. |

CONSTRUCTION OF 2 NEW POWER PLANTS AT ZOUK AND JIEH

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|----------------|---------------------------------------|
| Client: | “Ministry of Energy and Water” (MoEW) |
|----------------|---------------------------------------|

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

“Electricité du Liban” (EDL)

- Contractor:** “Burmeister & Wain Scandinavian Contractor” (BWSC) – Danish company
- Description:** The project consists of building two power plants at Jieh and Zouk which will have a combined capacity of 270 MW. The facilities are expected to run on both oil and gas.
- Financing:** The funds were allocated by Denmark’s “Export Credit Fund” (EKF) through an HSBC escrow account.
- Value:** \$350 million
- Status:** The construction of the two power plants in Zouk and Jieh will be completed soon. Delivery was postponed due to a delay in payment by the Lebanese Government.

BYBLOS (JBEIL) POWER PLANT PROJECT

- Client:** “Société Electricité de Jbeil” (EDJ) and “Byblos Bank”
- Description:** EDJ, in collaboration with “Byblos Bank”, has submitted a request to the Ministry of Energy and Water (MoEW) to start producing its own electricity through a new Heavy Fuel Oil (HFO) power plant, under Law 288/2014 that certifies power production.
- The plant will be established on a 30.000 m² plot in Byblos’s Rihaniyeh, Berbara area. Rihaniyeh is not residential and is near the Amchit Port, which is convenient for fuel supply. The land is leased through a long term contract for \$500.000 per year.
- The power generation capacity of the plant will be 64 MW in the first phase. The production capacity will reach 200 MW in the second phase. The surplus of power will be transferred to “Electricité du Liban” (EDL) or to any of the electricity concessions that lack electricity coverage.

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

The expected plant capacity is sufficient to cover all the electricity power demand within the concession area. EDJ will exit the national grid, relying only on the electricity provided by the new plant.

Financing: 30% of the total value will be funded through equities and 70% will be split between \$38 million in long term loans and \$10 million in working capital facilities.

Value: \$68.5 million

Status: The plant construction period should take nine to 12 months, following the approval of the MoEW.

Comments: The project will allow Byblos to become fully independent in terms of power supply. The region currently experiences a 50% blackout rate. The certification to generate power will save 36% in monthly electricity bills and \$20 million yearly. It will also improve the city's industry, boost trade, tourism, cash flow and employ up to 25 employees.

RENEWABLE ENERGY PROJECTS

LIGHTING UP BEIRUT PROJECT

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| Client: | “Municipality of Beirut” |
| Consultant: | “Artill Lighting Consultants” – French company |
| Designer: | “4B Architects” – Lebanese company |
| Description: | <p>The Municipality of Beirut has requested the France-based “Aartill Lighting Consultants” to set a strategy for a master plan to light up the city of Beirut. The expected outcome is energy savings, aesthetic street improvement and overall optimization of the lighting network.</p> <p>Beirut will be lit with 17.000 LED street lights to reduce power consumption by 24%. The plan would adopt smart technology as street lighting will be preprogrammed to be dimmed up to 50% between 1 a.m. and 5 a.m.</p> <p>There will be two key lighting trails: The Waterfront District (Corniche) and Damascus Road.</p> <p>The master plan includes two implementation methods: A traditional business-as-usual-approach or a Built-Operate-Transfer scheme with the private sector.</p> |
| Value: | \$50 million |
| Status: | The implementation would begin in 2015, while the completion is expected to take 10 years. |
| Comments: | The current lighting network is made up of 10.000 electricity poles that have not lately been maintained. |

NEEREA TO FINANCE RENEWABLE ENERGY PROJECTS

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| Client: | “Banque du Liban” (BDL) - Central Bank of Lebanon |
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Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

Description: The project aims to support the “National Energy Efficiency and Renewable Energy Action” (NEEREA). The loan will be used by private sector companies to apply renewable energy to their operations.

According to Central Bank (BDL) regulations, a single project may acquire a maximum loan value of \$20 million.

Financing: “Agence Française de Développement” (AFD) and the “European Union” (EU).

The European Union will also fund a technical support unit to be based at the “Lebanese Center for Energy Conservation” (LCEC) premises to help renewable energy loan applicants.

Value: \$34 million. It brings the total international support for NEEREA to \$100 million, as the Government approved a \$67 million loan by the European Investment Bank (EIB), three months ago.

Comments: NEEREA is a national financing mechanism initiated by the BDL, in collaboration with the Ministry of Energy and Water, the Ministry of Finance, UNDP, the European Union (EU), and the LCEC. It allows private sector entities (individuals, SMEs, or corporate bodies) to apply for subsidized loans for energy efficiency and renewable energy projects. NEEREA covers loans by any local commercial bank at 0.6% interest rate and a repayment period of up to 14 years, in addition to a grant amount released after the project is implemented.

SOLAR PHOTOVOLTAIC FARM IN ZAHRANI OIL INSTALLATIONS

Client: “Ministry of Energy and Water” (MoEW)

Description: The project aims at installing a solar power farm to generate 3 MW of power at the Zahrani Oil Installations (ZOI).

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

The project will begin with the installation and generation of 1 MW. It will be established on a net surface of 18.000 m². The facility will be built in the heart of the ZOI.

ZOI is currently powered by “Electricité du Liban” (EDL) and private generators. It needs 1.3 million KWh (3.6 MW) of power annually and has a total space of around 97.000 m².

Two contracts will be signed for the project: the first is for the design, supply, and implementation of the photovoltaic cells connected to the electricity grid in the ZOI, with all associated necessary works. The second is for the operation and maintenance of the cells for a five-year period after their transfer to its owner, ZOI.

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|--------------------------------|---|
| Financing: | Oil installations |
| Value: | \$2 million |
| Contractor for phase 1: | Midware Data Systems (Ecosys) - Kaco- Hourié “ECOsys”, has won the tender to install 1.1 MW of solar power to operate the oil installation. The solar farm will include 3.600 solar panels. |
| Status: | <p>The “Council for Development and Reconstruction” (CDR) had launched the tender request for the design, supply and implementation of a photovoltaic plant connected to the electricity grid in ZOIL, which ended on December 2, 2014. The project’s completion date is set for December 2016.</p> <p>The construction works are expected to start very soon. The project is expected to be completed and operational in a period of 7 months.</p> |
| Comments: | ZOI imports fuel oil, gas oil, and Gasoline 92 octane through the Zahrani terminal, stores them in reservoirs and treats them. It then distributes these derivatives in the local market through distribution companies. |

WIND FARM PROJECT

HAWA AKKAR

Client: “Ministry of Energy and Water” (MoEW)
“Lebanese Center for Energy Conservation” (LCEC)

Description: The project consists of building a wind-power farm with a capacity of 60 MW. The Hawa Akkar plan calls for twenty wind turbines to be spaced out along a north-south ridge line that tops out at 800 meters high near the town of Machta Hammoud in Lebanon’s northern Akkar region.

The wind farm will generate electricity from wind and sell it to the EDL. The MoEW plans to sign a contract with the winning firm once the tender procedures are finalized. The electricity law does not allow direct private sector involvement in energy production; however it does not prohibit leasing power generated by private firms. “Law 462 has not been amended to allow private firms to produce energy, but after signing the contract for leasing energy from power-generating vessels, the MoEW found that it could apply a similar procedure for leasing renewable energy from the private sector.

Status: Tender applications were closed in 2013. Four companies applied for the tender. One of the applicants is a joint venture between “Hawa Akkar”, a Lebanese firm, Greece-based “Construction Contractors Company” (CCC), and China-based wind turbine manufacturer, “Goldwind”. Another firm applying for the tender is “Lebanon Wind Power”, a joint venture between local group “Debbas” and a French partner. The third applicant is a joint venture between “Batco”, Lebanon-based firm “Sustainable Akkar”, Turkish firm “Tefirom”, and the local “Associated Consulting Engineers” (ACE). The identity of the fourth applicant has not yet been disclosed.

The project is still on hold as the approval of the Lebanese Cabinet is still needed to launch the project.

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

Comments:

The project will be fully operated independently by the winning bidder after the signing of the “Power Purchase Agreement” with Lebanese Government.

OIL AND GAS PROJECTS

1st OFFSHORE OIL AND GAS LICENSING ROUND

- Client:** “Ministry of Energy and Water” (MoEW)
- Description:** Licensing of petroleum activities relating to the awarding of exploration and production licenses.
- Following the Petroleum Administration’s approval of the map dividing offshore Lebanon into 10 blocks, covering around 17.900 km² (excluding a coastal buffer zone of 2 nautical miles), the Ministry announced that Blocks 1, 4, 5, 6 and 9 will be open for the 1st round of bidding but did not exclude the possibility of adding other blocks as well. The promising block 3, along the Lebanon-Cypriot borders is not included in the bid. Block 9, along the Lebanon-Israeli border, is just a few kilometers away from the Karish gas field in Israel.
- The oil firms were given the option of qualifying as operators or partners.
- Prequalification:** The pre-qualification Decree 9882/2013 issued on 21 February 2013 officially opened the pre-qualification round for oil and gas companies wishing to participate in Lebanon’s first offshore licensing round. Companies were offered to submit applications to pre-qualify either as an Operator or Non Operator. The pre-qualification process closed in March 2013.
- In April 2013, the Ministry of Energy and Water announced the results: out of 52 companies from 25 different countries, 46 were successful, out of which 12 can bid as operators and 34 as non-operators.
- Twelve companies pre-qualified as right-holders operators: Anadarko (USA), Petrobras (Brazil), Chevron (USA), ExxonMobil (USA), ENI (Italy), Maersk (Denmark), Repsol (Spain), Shell (Netherlands), Statoil (Norway), Total (France), Inpex (Japan), Petronas (Malaysia).

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
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34 companies pre-qualified as right-holder non-operators. The successful candidates are from various countries: USA, Canada, Kuwait, Lebanon Australia, Croatia, France, Hungary, Italy, Ireland, United Kingdom, Japan, India, Korea, Kuwait, Russia, Thailand, Turkey, and UAE.

Airborne surveys:

Extensive and high quality 2D (14.012 kilometers) and 3D (15.176 kilometers) seismic data surveys have been conducted in 2013, covering two-thirds of the Lebanese offshore area.

In September 2014, the US-based “NEOS Geosolutions MENA”, in collaboration with Qatar’s “Petroserv Limited”, with the support of the Lebanese Army and Air Force, as well as the Petroleum Administration, announced the launch of a 60 day airborne survey. The Cessna flying operations over the northern half of the country and in the transition zone along the Mediterranean coastline covered an area of 6.000 km².

In June 2015, the latter announced that the analysis of legacy wells and seismic data, as well as of data acquired from its aerial oil and gas survey of Lebanon, shows hydrocarbon potential in select areas of the country. According to NEOS, there is clear evidence of onshore and offshore petroleum. NEOS delivered the data to the Ministry of Energy & Water, the Lebanon Petroleum Administration, the General Directorate of Oil and to the Project’s underwriter.

The survey is part of the CedarsOil project, which is a geological and geophysical survey to study Lebanon’s onshore natural resource exploration potential.

Status:

The project is on hold as the licensing round was postponed several times as the Lebanese Cabinet has failed to discuss and agree on two decrees setting the number of blocks and the share of the government.

Comments:

An IMF study in 2014 expected Lebanon to start generating revenue from its potential offshore gas resource by 2020 at the earliest. Based on the 3D seismic survey executed by the company “Spectrum”, the country is estimated to hold close to 707.9 billion cubic meters of gas.

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PUBLIC CONSTRUCTION PROJECTS

NEW BUILDING FOR ISSAE CNAM

| | |
|----------------------------|---|
| Client: | “Institut Supérieur des Sciences Appliqués et Économiques Centre Régional Associé” CNAM Liban |
| Project management: | “Council for Development and Reconstruction” (CDR) |
| Consultant: | Lacico – Lebanese company |
| Description: | To establish a new building for the ISSAE CNAM in Beirut. |
| Financing: | “Agence Française de Développement” (AFD) ISSAE CNAM also received a \$900.000 grant from AFD to finance studies and technical assistance for a project that boosts and develops its concept and support the institution for six years. |
| Value: | \$27 million |
| Status: | Studies and consultancies will be finalized within three months. The CDR will announce a tender for choosing the contractors. |
| Comments: | The CDR and the Ministry of Education and Higher Education are finalizing a \$57 million project, also financed by AFD. It will enhance enrollment in public schools, require the establishment of new schools and the improvement of teachers’ capabilities. |

NEW FACULTIES FOR THE LEBANESE UNIVERSITY

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|---------------------|--|
| Client: | “Lebanese University” (LU) |
| Description: | The Cabinet approved earlier this year a project to develop the Lebanese University, by adding two faculties for Public Health in the Michel Sleiman Complex in Bohsas, Tripoli and the Pierre Gemayel complex in Fanar. |

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

The project also aims at increasing the capacity of each faculty to reach 600 students and provide 8 specializations and 6 master's degrees.

The project will include the implementation of departments for the Engineering, Architect, and Sciences faculties in the complex of Tripoli and comprises the construction of internal roads, infrastructure, fences and parking for these faculties.

The loan also provides for educational equipment, furniture and will be used to develop the curricula and consulting services.

Financing: The “Islamic Development Bank” (IDB) will finance the project with a \$73 million loan and the government will provide the remaining \$8.2 million.

Value: \$81.2 million

Status: The Project should be completed within 4 years after the approval of the Lebanese Parliament.

Comments: The Arts, Engineering and Science faculties were finalized and four are in progress in the Tripoli campus: Law, Business Administration, Social Sciences, and Literature.

NEW PRISON PROJECT

Client: “Ministry of Interior” (MoI)

Description: The prison will be built either in the North or the South. The project, which will be built in a rural area, will have the capacity to hold up to 800 inmates.

Financing: “Lebanese Association for Prison Rehabilitation” will donate part of the construction cost

Value: \$30 million

Comments: Roumieh is the largest prison, with a 1.000 prisoner capacity, but is now holding more than 4.000. The current 42 prisons and detention centers are filled up to three times their capacities. This sparked outrage among humanitarian NGOs, the civil society, and several lawmakers, who called for a national strategy for prison management.

This is the first time since 1966 that the State has allocated a budget for the development of prisons.

GOVERNMENT TO BUILD STATE-OWNED OFFICES

Client: “Ministry of Public Work and Transport” (MoPWT)

Description: The project calls for clustering ministries together on State-owned lands, as opposed to their renting private office buildings.

The State pays an annual rent of \$95 million for buildings occupied by ministries. Among the tenants in rented buildings are the ministries of Environment, Economy and Trade and the Ministry of State for Administrative Development.

There are two plots taken under consideration: the 1st is in El Abed Square in Corniche El Nahr. The 110.000 square meters land belongs to the MoPWT and the Authority of Public Transport. The 2nd is a smaller plot near the Baabda Serail and Government Hospital.

Financing: The funds will be used for the property development, since the State will only develop complexes on public plots.

Value: A quick estimation reveals that the project’s cost will exceed \$125 million. No official estimate has been made regarding the total cost yet because several options are being discussed regarding locations, spaces and which ministries will move first into the new facilities.

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

Status: The Council of Ministers still needs to approve the funds for the project. Following its approval, a tender will be issued for the design and construction of the buildings.

Comments: The El Abed Square is a controversial land because it is a future starting point for a future train station. However, the idea of developing government buildings near a train station is applauded because it relieves stress on infrastructure and encourages people to use the public means of transportation, as is the case in other countries.

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Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
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PRIVATE CONSTRUCTION PROJECTS

WATERFRONT CITY **2nd PHASE**

- Client:** “Majid Al Futtaim Properties” – UAE-based company
“Société Joseph G. Houry Et Fils” – Lebanese company
- Main Contractor:** “A.R. Hourie” – Lebanese company
- Description:** Waterfront City Dbayeh is a mixed-use community project located on the Mediterranean Sea, 15 kilometers from the capital, Beirut. The growing 250.000 m² master-planned community located on the 700-berth, offers quality residential, retail, hospitality and business opportunities.
- The second phase of this project is now underway. It will comprise 6 buildings in total, with residences ranging in size from 75 to 200 m². It includes the construction of the residential plots of “The Piazza and Boulevard” districts. A competitive offering of 1 to 4 bedroom apartments will be developed in The Piazza with 105 units, while the Boulevard will offer 177 units ranging from 1 to 3 bedroom apartments.
- Already 80% of this second phase has been sold.
- Value:** \$80 million for this phase
- Status:** Delivery of the second phase of the project is expected by 2018. Phase one, set to start delivery in 2015.

CASCADA VILLAGE IN BEKAA

- Client:** “Inter Mall Group SAL” (Holding) – local developer
- Description:** The Cascada Village project is located in the Taanayel region of Bekaa, on a 200.000 m² of land. It features five synergetic hubs:

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- **Cascada Mall:** 150.000 m² regional shopping center.
- **Arcadia Weddings & Events:** a 2.000 seated wedding podium
- **Rush Extreme Sports Park:** a 14.000 m² outdoor adrenaline park equipped for extreme sports lovers from pff-road karting track to paintball.
- **Cascada Medical Center:** a 4.800 m² medical center which will comprise 200 clinics, laboratories, x-ray facilities, and one-day surgery rooms. It will include 4 floors and a parking for more than 1.000 cars.
- **Cascada Hotel:** a 200-room which will complement the project's retail, dining, entertainment and events components.
- **Cascada Amphitheter:** an open-air Roman style theater with a capacity of 4.000 spectators and is designed to host musical, cultural and athletic performance.
- **Oasis:** a 10.000 m² manmade lake with sidewalks and surrounded by a variety of dining restaurants.

The project combines shopping over its 42.700 m² of retail space and 8.000 m² supermarket component, and 10.200 m² dining facilities with 9.600 m² of various entertainment offerings.

The village is covered and outdoor parking spaces can accommodate up to 4.000 cars.

Value: \$100 million

Status: The project is set to open in spring 2016

EDEN ROCK RESORT PROJECT

Client: “Achour Development” – local developer

Developer: “Beirut Marina Gate” – Lebanese company
“Achour Marine Development”

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Description: Achour Development launched in October 2014 the 22.295 m² Eden Rock Resort of Beirut's Ramlet Al Baida coast.

The project will consist of a 5 star hotel, a residential tower of 85 apartments, a sea level residential building of 100 apartments, 468 cabins and chalets with exclusive access to a private beach and marina.

The 17-story residential tower contains fully furnished apartments ranging from studios of 55 m² to large three-bedroom flats of 211 m². Prices for units range from \$15.000 to \$20.000 per square meter.

In addition to the private beach, the apartments also include several amenities for residents such as landscape gardens, a spa, a shopping area, a gym and four pools. While the marina has the capacity to hold up to 30 boats and also boasts several restaurants and five bars.

Value: \$500 million

Status: The project is slated for completion in five years but the apartments are already up for sale.

EASTERN MARINA BY SOLIDERE

Client: "Solidere" – local developer

Description: The Eastern Marina Development is an anchor project of the Waterfront District. The site, a prime location, has its north, south and west sides overlooking the Eastern Marina, with the south side also overlooking the Beirut Port First Basin.

The development will incorporate a private luxury and contemporary urban Beach Resort. It will accommodate a resort hotel, plus a residential component comprising serviced condominiums and low-rise residences, cabanas and bungalows, with quayside retail, with views of the traditional city center, the sea and the mountains.

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
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The project will also benefit from landscaped private open space as well as public pedestrian and vehicular access to the marina quay along and parallel to the Ottoman Wall Walk, and be serviced by an underground car park.

Upon completion of the Eastern Marina, the city center will offer a 3.5 km uninterrupted extension of the Beirut shoreline, providing more than four times the space of seafront promenade currently available in the city.

| | |
|-------------------|--|
| Financing: | “Solidere” |
| Designer: | COWI – Danish company |
| Status: | The development is currently under detailed design. The construction is expected to start in 2015. |

SMART VALLEY IN FATKA

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|---------------------|--|
| Client: | “SAKR Real Estate” – local developer |
| Description: | <p>The project will incorporate 900 units, including apartments and commercial outlets, as well as a 33.000 m² wellness center and spa. The 250.000 m² project would have a total built-up area of 310.000 m².</p> <p>The scheme would consist of environmentally friendly smart buildings, equipped with automated controls for illumination, heating, air quality, security and sanitation. Lighting and heating will be solar powered.</p> |
| Value: | \$500 million |

ENTERTAINEMENT PARK IN KESEROUAN

- Client:** “Mayne Group” – local developer
- Designer & Contractor:** “Mayne Group”
- Description:** A multi-purpose entertainment park and venue to be located between Bouar, Fatqa, and Ghodras.
- The 600.000 m² project will consist of entertainment facilities and rides. It will also include a resort with bungalows, restaurants and shopping outlets, a kindergarten, a wedding venue and a section dedicated to team building activities.
- Financing:** Mayne Group is searching for interested investors. They have already approached the Investment Development Authority of Lebanon and will present it with the feasibility study.
- Value:** \$35 million
- Status:** The project will open in three phases, during the next four years. Currently, the project is in the architecture phase and works will begin in 2015.

GRAND HYATT HOTEL

- Client:** “Société Méditerranéenne des Grands Hôtels SAL” – local developer
- Consultant:** “Dar Al Handasah Shair & Partners” – Lebanese company
- Description:** The 5-star luxury hotel in Downtown Beirut will have a total built-up area of 65.000 m² divided into 18 floors.
- It will offer 350 rooms and suites, as well as meeting rooms, a business center, restaurants, a swimming pool, a health club, leisure facilities and retail shops.

Lebanon – Infrastructure Projects 2015

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|-------------------|--|
| Financing: | “Société Méditerranéenne des Grands Hôtels” – Group of Lebanese and Saudi investors |
| Value: | \$80-90 million |
| Status: | Construction of the project resumed in the beginning of 2015. Delivery is expected within 2 years. |
| Comments: | The project was postponed for more than 2 years due to difficult market conditions. |

NAAS SPRINGS WELLNESS HOTEL

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|---------------------|---|
| Client: | The project is owned by a group of Lebanese, expats, and foreign investors. |
| Developer: | “FFA Real Estate” – Lebanese company |
| Description: | <p>The resort stretches over more than 132.000 m² of land, and will have a built up area of 71.000 m².</p> <p>The project consists of “The Naas Springs Wellness Hotel”, a spa called the Naas Wellness Center, and the Naas Springs restaurant, along with a number of private parcels.</p> <p>The hotel will consist of luxury rooms, whose number has not yet been announced.</p> <p>The project will be constructed in two phases: the first will include infrastructure and roads. The second phase will consist of The Naas Springs Wellness Hotel, the spa and the restaurant, along with a number of private parcels.</p> |
| Value: | \$100 million |
| Status: | The first phase of works have already started earlier this year, to be completed within 18 months. The finalization of the second phase of the project has not been set yet. |

BAABDA OUTLET MALL

- Client:** “Admic” – local developer
- Description:** To build a 10.700 m² mall in the Baadba area. The facility will have four retail levels, with space for 70 stores.
- Value:** \$10 million
- Status:** The project will be developed in two phases. The first would be completed in 2016 and would consist of a revamp and development of an already existing building. The second, which would add more space to the mall, would be completed by the fall of 2017.

CENTRO MALL

- Client:** “Tajco” – local developer
- Description:** The mall is being built on a plot of over 20.000 m² along the Jnah highway in Beirut. It consists of 3 aboveground floors totaling 75.000 m² and underground floors dedicated to parking lots. Centro will have a large mix of retail outlets, including a food court and various restaurants and chains, a hypermarket, banks, a family entertainment center, a department store, movie theaters and a rooftop ice skating rink.
- Value:** \$100 million
- Status:** Works have started and the mall is expected to be completed in 2016.

BYBLOS MALL

- Client:** “Hawat Investment” & private local investors
- Description:** Construction of a mall in the city of Byblos on a 22.000 m² plot of land. The project will include 3 aboveground floors of 15.000 m²each; 3 underground floors for parking. The mall will consist of retail stores, restaurants and movie theaters.
- Value:** \$46 million
- Status:** Works have started and the mall is expected to be completed at the end of 2017.

HOUSE OF ARTS AND CULTURE PROJECT

- Client:** “Ministry of Culture” (MoC)
- Architecture:** An international architectural competition was won by “Alberto Catalano” – Italian architect
- Consultant:** “Gaia-Heritage” – Lebanese company
- Description:** The center occupies a property of 3.600 m². The building will have a total surface area of 22.000 m². It will consist of an 800-seat auditorium, a multipurpose room of 300 seats, a 200-seat theater, exhibition rooms, rehearsal space, production studios, a library, a cinema, along with administrative offices and commercial spaces.
- The project, planned for construction next to Riad El Solh Square, will cover a wide range of arts, music and literature. The land plot belongs to Solidere, a decision was issued by the Cabinet to transform the land into a State-owned property in order to host this cultural project.
- Financing:** A grant from the Sultanate of Oman to the Ministry of Culture

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

Value: \$20 million

Status: The project awaits the issuing of the necessary permits in order to start excavation works.

Comments: The House of Arts and Culture is the first large cultural project to be built in Lebanon. It will offer spaces for the performing and visual arts, for documentation and for training. An incubator for the development of creativity in the country, it will reinforce the role of Beirut as a central place in the international arts scene.

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INDUSTRY CONSTRUCTION PROJECTS

NEW PLANT FOR AL WADI AL AKHDAR

- Client:** “Al Wadi Al Akhdar” – manufacturer of canned food
- Description:** The local manufacturer of agro-industrial food is building a new factory in Hosrayel. After its opening, the current facility in Dora will close.
- The plant will produce a range of foods and various syrups and extracts. The production capacity of the new facility would reach 15.000 cans per day, increasing by around 60%.
- The planned size of the plot is 25.000 m² and the total built-up area would be 10.000 m².
- The project will offer renewed and enlarged available production lines and new ones would be installed for a variety of products which are now being packaged on other local factories.
- Financing:** “Al Wadi Al Akhdar”
- Value:** \$15 million
- Status:** The factory is set to open in 2017

SAIDA INDUSTRIAL CITY

- Client:** “Chamber of Commerce, Industry and Agriculture of Saida and South Lebanon” (CCIASS)
- Description:** New industrial city around Baysariye in the south
- The concerned municipalities and the government will provide the 800.000 m² plot of land free to build the city which will be established in several phases, with the first consisting of 200.000 m². The city will be equipped with high voltage power

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

stations, water resources, a sewage system, paved roads and green areas.

Industrialists will have the option to lease the plots of land for a minimum of 35 years at very low rental fees.

Financing: The Chamber will search for the funding sources to equip the city with infrastructure.

Value: \$10 million

GENERATOR PLANT IN ZAHLE

Client: “A.R. Jubaili & Co.” – manufacturer of power generators

Description: To build a new factory in the industrial zone of Zahlé in early 2016. The project will have a total built-up area of 10.000 m². The facility will double the company’s capacity to 5.000 generators per year.

Value: \$5 million

Comments: The company exports 80% of its production to Iraq, gulf countries and Africa.

AL TAGHZIAH EXPANSION

Client: “Al Taghziah” - manufacturer of frozen and canned cold cuts and pickles.

Description: To build a new 4.000 m² factory in Dibbiyeh. The project will have a total built-up area of 23.000 m².

Value: \$15 million

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

Comments:

The company is expected to double its production capacity as there is a growing local demand for their products due to the presence of Syrian refugees.

Al Taghziah exports around 65% of its production to 14 Arab and African countries as well as Australia and Venezuela.

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HEALTH CONSTRUCTION PROJECTS

HOSPITAL IN KOURA FOR THE UNIVERSITY OF BALAMAND

| | |
|---------------------------|--|
| Client: | “University of Balamand” (UoB) |
| Design Consultant: | “Nabil F. Azar” – Lebanese company |
| Contractor: | Not yet assigned |
| Description: | <p>The hospital will be built on a 28.000 m² surface and will provide medical and emergency services, including a surgical suite, a cardiac and pathology laboratory and outpatient clinics.</p> <p>The medical center will comprise 200 beds as well as employee housing for 350 expected staff.</p> <p>As a teaching hospital, it will train graduates of the UoB’s Faculty of Health Sciences.</p> |
| Financing: | “IBL Bank” |
| Value: | \$50 million |
| Status: | The medical center is expected to begin operations in 2018 |

“OASIS DE VIE” HOSPICE IN ASHRAFIEH

| | |
|---------------------|--|
| Client: | “Greek Catholic Association of Beirut” |
| Consultant: | “4b Architects” – Lebanese company |
| Contractor: | “Hakimeh Contracting” – Lebanese company |
| Description: | The built-up area of the center is 16.000 m ² . It comprises 16 floors and will include a hospice and palliative care center and clinics. |

Lebanon – Infrastructure Projects 2015

Economic & Commercial Section
Embassy of Belgium

It will also host a center for residents that need assistance in Activities of Daily Living (ADL). The total capacity of the center is 157 beds.

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|-------------------|--|
| Financing: | “Greek Catholic Association of Beirut” |
| Value: | \$25 million, excluding the value of the land, which was donated |
| Status: | The project is expected to be completed by late 2016 |

MEDRAR MEDICAL CENTER - NMC

| | |
|---------------------|--|
| Client: | Medrar Foundation – Lebanese charity organization |
| Description: | The 32.000 m ² hospital will host 200 beds and be located in Nabatiyeh in the south of Lebanon. NMC will be eco-friendly, LEED-Gold certified and powered by various renewable energy resources. The hospital will be divided into six departments: cancer, heart and vascular, orthopedic, otology, a home for the elderly, addiction and psychotherapy. It will also include surgery, intensive care rooms as well as outpatient clinics. NMC will also incorporate a center for training and preparing medical staff |
| Value: | \$75 million |
| Status: | The project is expected to be completed by early 2017 |
| Comments: | The Medrar foundation signed a long-term memorandum of understanding with the American University of Beirut Medical Center to run it as a teaching hospital. |

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TENDER AUTHORITIES

Council for Development and Reconstruction (CDR)

Access on monthly basis the link hereunder in order to stay updated with all new tenders issued by the CDR:

Website : www.cdr.gov.lb/eng/select_procurement.asp

Electricité du Liban (EDL)

Access on monthly basis the link hereunder in order to stay updated with all new tenders issued by the EDL:

Website : www.edl.gov.lb

Ministry of Education and Higher Education (MoEHE)

All tenders and educational projects are published under the section “Documents” on the homepage of the link hereunder:

Email : info@higher-edu.gov.lb

Website : www.higher-edu.gov.lb/arabic/index_ar.asp

Ministry of Energy and Water (MoWE)

Lebanese Center for Energy Conservation (LCEC)

Send email to Mrs. Farah Mawla to receive the newsletter “Good to Know” in which all projects are listed:

Email : farah.mawla@lcecp.org.lb

Website : www.lcecp.org.lb

Petroleum Administration Lebanon (LPA)

All tenders and oil and gas projects are published under the section “News” on the link hereunder:

Email : info@lpa.gov.lb

Website : www.lpa.gov.lb/news.php

For more information on oil and gas exploration: www.lebanon-exploration.com