PROJECTS

BAHRAIN
Addur IWPP-Power
Owner: Bahraini Ministry of Electricity and Water
Budget: $1.5 billion
Scope: The project calls for the design, supply, construction and operation (25 years) of a facility with a capacity of 1,200 MW and 48 million gallons per day (mg/d). The plant will be located on the eastern side of the main island between Ras Abu Jarjur and Addur.
Update: Suez & Gulf Investment Corporation is expected to begin approaching banks for a $1.7 billion loan to begin development of the plant. Pricing is expected to begin at around 300 basis points.

Bahrain Wastewater Privatisation-Muharraq Sewage Treatment
Owner: Bahraini Ministry of Electricity and Water
Budget: $1 billion
Scope: The project follows calls for the privatisation of Bahrain’s wastewater sector. A new sewage treatment plant is being planned in the Muharraq region. It will have capacity of 90,000-100,000 cu m a day (m3/d) of wastewater. This will be increased to 150,000 m3/d after five years.
Update: A request for proposals was due to be issued by the end of January.

HUWAIT
KPPC-Shuaiba Aromatics Complex
Owner: Kuwait Paraxylene Production Company (KPPC)
Budget: $1.5 billion
Scope: The scope of work includes the EPC of a 770,000 tpa paraxylene plant and a 330,000 tpa benzene plant with infrastructure, storage and loading facilities and associated works. The ethylene will be sourced from the Equate Olefins II project.
Update: The project is 98 per cent complete. Full commissioning is planned by the end March 2009.

OMAN
Duqm Coal Power & Desalination Plant
Owner: Oman’s Power & Water Procurement Company (PWPC)
Budget: $1.6 billion
Scope: The project calls for the construction of a coal-fired power and desalination plant in Duqm with capacity of 1,000-1,200 MW of power and 26 mg/d of desalinated water.
Update: Mott MacDonald is carrying out a fuel selection study for OPWP, which will assess the viability of using alternatives to natural gas to fuel future power plants.

Sohar Refinery Expansion-Polypolypropylene Plant
Owner: Oman Refineries & Petrochemicals Company (ORPC)
Budget: $1 billion
Scope: The project calls for expansion of the existing 116,000 bpd Sohar refinery by 1) an additional crude distillation unit (CDU). 2) Integrating the refinery of Sohar with the Aromatic Oman complex. 3) A bitumen unit. 4) An EB unit. 5) A Styrene unit. In addition, a polypropylene plant will be included with expected capacity of approximately 1.5 million tonnes per annum (mtpa). The integration will require addition and modification to the refinery.
Update: The contract is going to be re-tendered in March 2009, because under local tender regulations, at least two bids must be received for a public sector contract. The contract is going to be a straight lump-sum instead of being convertible lump-sum.

Barka IWPP 3-Power at Barka
Owner: Oman Power & Water Procurement Company (PWPC)
Budget: $1 billion
Scope: The project calls for designing, building and operating (DBO) a 650 MW and 130,000 m3/d third phase expansion of Barka IWPP. The power plant is likely to be gas-fired.
Update: Mott MacDonald is carrying out a fuel selection study for OPWP, which will assess the viability of using alternatives to natural gas to fuel future power plants.

QATAR
Qatar Power Transmission Network Phase 9-54 Substations
Owner: Qatar General Electricity & Water Corporation (Kahramaa)
Budget: $4.7 billion
Scope: The project calls for designing and executing 54 substations including three underground stations in Doha.
Update: Energoprojekt Entel Company LLC has been awarded the first consultancy contract for the project. It will be responsible for the verification and evaluation of tender documents for the EPC contracts that form the project.

Honam-Waseeta-Mesaieed Petrochemical Complex-Derivatives
Owner: Honam-Waseeta JV
Budget: $3.1 billion
Scope: The project calls for the construction of a 1.7 mtpa ethane cracker and aromatics complex in Mesaieed Industrial City in Qatar. The complex will be integrated with the existing Mesaieed refinery. The scope of work includes 900,000 tpa ethane and naphtha cracker to produce butane to be converted to propylene to feed two polypropylene plants totalling 700,000 tpa. It also includes a naphtha reformer to produce benzene to be converted to 600,000 tpa of styrene and 200,000 tpa of polystyrene. The facility will also produce 150,000 tpa of aromatics and 50,000 tpa of other by-products.
Update: The project has been put on hold due to the global financial crisis.

QEWV - Ras Laffan IWPP C - Power
Owner: Ras Girtas Power Company (RGPC)
Budget: $2.5 billion
Scope: The project calls for the design, build, 25 years operate and transfer (BOOT) of a new 2,730 MW and 63 mg/d IWPP in Ras Laffan to be called “Facility C”. The developer will have a 40 per cent share in the facility.
Update: Construction work is ongoing and expected to be completed by July 2011.

Qatofin-Ras Laffan Ethane Cracker
Owner: Ras Laffan Ethylene Company
Budget: $1.5 billion
Scope: The project calls for the
construction of a 1.3 mtpa ethylene cracker at Ras Laffan Industrial City in Qatar for Q-Chem. The development will be using Chevron Phillips technology. This cracker will provide ethylene feedstock to the planned polyethylene and alpha olefins plants in Mesaieed through an interconnecting pipeline.

**Update:** The project is expected to be commissioned in June 2009.

Qatofin-Mesaieed LLDPE Plant  
**Owner:** Qatofin  
**Budget:** $1.5 billion  
**Scope:** The project calls for the design, supply and construction of a 450,000 tpa linear low density polyethylene (LLDPE) plant at the Mesaieed Industrial City, including associated works. The plant will process 422,000 tpa of ethylene and 38,000 tpa of butene-1 to produce 450,000 tpa of LLDPE. Feedstock will be provided by the ethylene cracker in Ras Laffan.  
**Update:** Commissioning has been delayed to 2010.

QEWC-Ras Laffan IWPP C-Desalination  
**Owner:** Ras Girtas Power Company (RGPC)  
**Budget:** $1.3 billion  
**Scope:** The project calls for the construction of an IWPP with a capacity of 63 mg/d in Ras Laffan to be called “Facility C”. The developer will have a 40 per cent share in the facility. The contract will be on a build, own, operate and transfer (BOOT) basis.  
**Update:** Construction work is ongoing and is expected to be completed by April 2010.

**SAUDI ARABIA**

Maaden-Al Zubarah Bauxite Development - Aluminium Smelter - Phase 1  
**Owner:** Saudi Arabian Mining Company (Maaden)  
**Budget:** $5 billion  
**Scope:** The project involves the construction of an aluminium smelter with a capacity of 750,000 tpa of aluminium with two potlines, a carbon plant, a cast house and support facilities and an alumina refinery of 1.4 million tonnes processing capacity at Ras Al Zour, located on the central east coast of Saudi Arabia. Bauxite will be mined at Al-Jalamid and transported via the planned minerals railway. The development also includes the construction of a 1,800 MW power plant with desalination capacity.  
**Update:** The project has been put on hold pending a review by the government of its energy requirements. Alcan became unable to finance its 49 per cent stake in the project because of the financial and economic crisis.

Maaden-Al Zubarah  
Bauxite Development-Aluminium Smelter-Phase 2  
**Owner:** Maaden  
**Budget:** $15 billion  
**Scope:** The project calls for expanding the production capacity of the Maaden alumina refinery at Ras Al Zour from 750,000 tpa to 2 mtpa. The scope of work also includes two potlines, a carbon plant, a cast house and support facilities. The smelter expansion may require expanding the alumina refinery and power generation plant as well.  
**Update:** The project has been put on hold pending a review by the Gulf state’s government of its energy requirements. Alcan became unable to finance its 49 per cent stake in the project because of the financial and economic crisis.

Aramco-Ras Tanura Integrated Refinery & Petrochemical Complex  
**Owner:** Aramco-Dow JV  
**Budget:** $10 billion - Polyolefins; $7 billion - Aromatics; $5 billion - Cracker  
**Scope:** The project calls for the design and construction of an integrated petrochemical complex in Ras Tanura and the expansion of the existing 550,000 bpd refinery by at least 100,000 bpd. The refinery will have a 70,000 bpd high olefins fluid catalytic cracker (FCC) and an 80,000 bpd vacuum gas oil hydro creator. The core units of the petrochemical complex are: 1) A 1.2 mtpa ethane/naphtha cracker producing 400,000 tpa of ethylene and 400,000 tpa of naphtha. The cracker will be fed with 70 million cubic feet per day (f3/d) of ethane from the Juaymah gas plant. 2) A high olefins FCC complex producing purified terephthalic acid (PTA), polyethylene terephthalate (PET), toluene diisocyanate (TDI), methyl diphenyl diisocyanate (MDI), acrylonitrile (ACN), styrene butadiene rubber (SBR) and acrylonitrile butadiene styrene (ABS). 3) A chlor-alkali complex and an aromatics complex mainly producing pyrolysis gasoline, para-xylene and benzene. The complex will have nearly 30 downstream process units producing at least 300 different products.  
**Update:** Aramco and Dow are seeking to minimise the project’s cost through assessing contractors’ interest in bidding for the project on a BOO basis.

WEC - Ras Al Zour IWPP - Power  
**Owner:** Water & Electricity Company (WEC)  
**Budget:** $3.2 billion  
**Scope:** The project calls for the construction of a new IWPP at Ras Al Zour in Saudi Arabia. The new oil-fired IWPP will have a capacity of 850-1,100 MW of electricity and 220 mg/d. The contract is on a 20-year BOT basis. The project will serve Riyadh and northern areas like Naerya and Hafr Al.  
**Update:** The consortium of Sumitomo & Malakoff & Al Jomaih has been awarded the developer contract for the project.

SEC-PP10 Phase 1  
**Owner:** Saudi Ministry of Water and Electricity  
**Budget:** $3 billion  
**Scope:** The project calls for the construction of the 10th power generation plant in the Central Province. The facility is called PP10. Power generation capacity of the plant will be 3,000 MW. The PP10 is located at 80 km west of Riyadh. The plant will have 2,000 MW capacity in Phase 1.  
**Update:** Construction work is ongoing and expected to be completed by 29 August 2011.

WEC - Ras Al Zour IWPP - Desalination  
**Owner:** Water & Electricity Company (WEC)
Project Information

**SEC-PP11 IPP**

**Owner:** Saudi Electricity Company (SEC)

**Budget:** $2.1 billion

**Scope:** The project calls for the construction of the 11th power generation plant in the Central Province. The facility is called PP11. The plant will have a capacity of 1,800 MW-2,100 MW of power. The plant will be gas-fired and built and operated on a BOO basis.

**Update:** A request for prequalification has been issued for the project. The tender for the developer contract is due by February 2009.

**Dubai-Aluminum Smelter Expansion - Potlines 10 & 11**

**Owner:** Dubai Aluminium Company Limited (Dubal)

**Budget:** $1.8 billion

**Scope:** The project calls for the construction of potlines 10 and 11 as an expansion to Dubal’s aluminium smelter in Jebel Ali. Each potline will have a production capacity of 300,000 tpa. Dubal is currently expanding potlines 7b and 9b and, on completion, Dubal will have a total production capacity of 860,000 tpa. On completion of the proposed potlines 10 and 11, Dubal will have a total production capacity of 1.3 mtpa.

**Update:** The project has been completed.

**UWEC - Fujairah IWPP 1**

**Owner:** Adwea

**Budget:** $1.7 million

**Scope:** The project calls for the expansion of the existing IWPP power plant in Fujairah. The contract is 22 years BOO-based. The scope of work involves addition of 225 MW to the existing 760 MW power plant and 100 mg/d desalination plant. The contract includes acquiring the existing plant.

**Update:** Construction work is ongoing and expected to be completed by December 2009.

**Kayan - Jubail Olefins Complex**

**Owner:** Saudi Kayan Petrochemical Company

**Budget:** $2 billion - Cracker; $1.5 billion - EO/EG; $1 billion - Amines; $1 billion - PP and $1.5 billion - O&U

**Scope:** The project calls for the construction of the 11th power generation plant. The complex will include a 1.45 mtpa ethane/propane cracker at Jubail. The cracker will have an initial capacity of about 1.3 mtpa.

**Update:** Commissioning has been delayed to December 2009.

**Qurayah 2 Power Plant Phase 1**

**Owner:** SEC

**Budget:** $2 billion

**Scope:** The project calls for the design, supply, installation and commissioning of a 3,000 MW power plant in Qurayah in the eastern province. Phase 1 will have 15 gas-fired turbines with a capacity of 1,900 MW.

**Update:** Construction work is ongoing and expected to be completed by 15 August 2009.

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